



The Institution of Engineers, Malaysia

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Talk on the Birth and Development Of Subsea Umbilicals

Organized by Women Engineers Sections, IEM

BEM Approved CPD/PDP Hours: 2 Ref : IEM16/HQ/330/T

Date : **6 October 2016 (Thursday)**
Time : **5.30pm – 7.30pm (Refreshment will be served at 5.00 pm)**
Venue : **Tan Sri Prof. Chin Fung Kee Auditorium, 3rd Floor, Wisma IEM**
Speaker : **Mr. Marian Copilet & Ir. Jeyanthi Ramasamy**

Synopsis:

The worldwide exploration and development of offshore oil and gas fields started in the 1960's. At that time, due to material and technological limitations, only fields located in shallow water could be developed. As the discovery of oil and gas fields moved from shallow water to deep water and ultra-deep water, new technologies were developed. Among those, subsea umbilicals were needed to deliver hydraulic power and chemical fluids, and to provide electrical power and communication from the main production facility to subsea wells located up to 100 km away. This presentation will cover the past, present and future of subsea umbilicals and associated hardware.

About The Presenter:

Marian Copilet is a graduate of Polytechnic University in Bucharest, Romania in year 1984 and obtained Bac in Mechanical Engineering. For the last twenty-five years, Marian has been involved in both upstream and downstream sectors of the oil and gas industry, with a focus on subsea umbilicals and oil and gas pipelines. Prior to that, he spent some time as an academic and an engineer in the nuclear industry. His career took him to more than twenty-five countries spread across five continents. Marian is currently based in KL, at Oceaneering International Asia HQ, where he is heading the Technical Solutions Group for Asia Pacific. Oceaneering is a global provider of engineered services and products, primarily to the offshore oil and gas industry, with a focus on deepwater applications. As part of the Technical Solutions Group, Marian works closely with customers during early project stages to find optimal solutions to field development challenges and identify future product development, capital investment or technology needs.

Synopsis:

Unlike topside facilities which are manned, subsea assets have no facility for direct access and human interaction is only possible in shallow waters using divers. Asset integrity has been extensively studied on operating facilities, however, not enough research has been done on the way the design, construction and commissioning phases affect the asset integrity of subsea developments. This research was conducted to examine asset integrity aspects during the design and execution phases and assess the challenges to effective asset integrity implementation. The outcome of the research is an asset integrity framework development applicable during the project phase. This subsea asset integrity framework model for project execution phases will be beneficial to oil and gas companies by enabling them to manage effectively the subsea asset integrity from the very beginning of the asset lifecycle. The use of this asset integrity model will enable operators to predict and prevent failures in operation.

About The Presenter:

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. Assoc Prof. Dr. LEONG Wai Yie
Chairman
Women Engineers Section

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.

CPD HOURS CONFIRMATION

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