Invitation

The Lloyd's Register Foundation Oration, Australia





Professor Mark Cassidy

(Director, UWA Centre for Offshore Foundation Systems)

is pleased to invite you to the 2015

Lloyd's Register Foundation Oration Australia

Date: Monday 16 November 2015

Time: Registration and pre-drinks: 5.30pm – 6pm

Lecture: 6pm - 6.45pm

Standing dinner: 6.45pm - 9pm

Location: University Club, Banquet Hall,

The University of Western Australia

Entrance 1, Hackett Drive, Crawley, Western Australia

RSVP: Friday 6 November to Monica Mackman

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Lloyd's Register Foundation supports the advancement of engineeringrelated education, and funds research and development that enhances safety of life at sea, on land and in the air.





PRELUDE FLNG Project: Innovation taking shape

The Prelude Floating LNG, planned to be installed offshore NW Australia. will be the first floating structure which incorporates facilities for liquefying natural gas at -162°C, in addition to upstream production facilities. The produced LNG is stored in cargo tanks on the vessel and is offloaded onto LNG Carriers for transport to market. The FLNG facility will be producing 5.3million tons per annum of LNG, LPG and condensates, sufficient to power a city of 7million people. The floating vessel needed to deliver this will have a length of 488m and will be the largest floating facility ever built. The presentation will provide insight into this ground-breaking megaproject where construction is well underway. Although FLNG is a new revolutionary concept it comprises largely of existing technologies brought together and integrated in new ways. Nevertheless, some new technologies needed to be developed, notably to enable such a large floating facility to be permanently manned and operated in a tropical cyclone environment. The presentation will highlight such new technologies which include the mooring arrangement, side-by-side offloading of LNG and LPG and intake risers for provision of cooling water.

The importance of maturation and qualification of new technical innovations in the course of a mega-project is highlighted and illustrated.



MIKE EFTHYMIOU

Mike obtained his BSc and MSc degrees in Civil & Structual Engineering from the University of Machester, UK, and his PhD in Offshore Engineering also from the University of Manchester. Mike has worked with Shell for over 30 years in a wide range of roles, including research and development and execution of major projects including the Sakhalin Project offshore Russia and the Prelude Project. In his role as Engineering Manager for Offshore Structures and Metocean, Mike was Technical Authority for aspects of Floating LNG technology in Shell and holds several Patents on aspects of the technology.

After retiring from Shell in 2013 Mike as appointed Professor - Shell EMI Chair of Offshore Structures at the University of Western Australia. He also maintains a part-time role as Technical Consultant to Shell with a focus on FLNG and Deepwater production systems.