



WEBINAR
ONE-DAY COURSE ON
“INTRODUCTION TO METOCEAN APPLICATIONS FOR OFFSHORE
FACILITIES ENGINEERING”

06 OCTOBER 2020 | 9.00 AM – 5.30 PM

SPEAKER :
Prof. Ir. Dr. Mohd Shahir Liew
Ir. Dr. Lim Eu Shawn

BEM Approved CPD/PDP Hours: 7 Hours
IEM20/HQ/093/C(w)

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Oil Gas and Mining Technical Division (OGMTD) & Marine Engineering & Naval Architecture Technical Division (MNATD)
In collaboration with:
Offshore Engineering Centre, Universiti Teknologi PETRONAS (UTP)

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SPEAKERS



Professor Shahir has been practicing in the construction and offshore industry for 23 years, he is now the Deputy Vice Chancellor Research and Innovation (DVCRI) at Universiti Teknologi PETRONAS (UTP), Malaysia in charge of the business development portfolio and catalyzing the research ecosystem for accelerated growth. Professor Shahir aspires for a better tomorrow in Malaysia through the approach of sustained growth in niche capabilities and high-end knowledge areas. He believes that these are crucial for the country to reach developed nation status and strongly advocates for the scientific and engineering community to always add cutting edge dimensions to their set of capabilities and competencies. Professor Shahir throughout his career has spearheaded several strategic initiatives in the area of competency development including being one of the pioneering groups in Malaysia to develop wind engineering competencies and was the Chairman of the National Standards MS1553 Wind Code in 1999. In this time in the Malaysian Oil and Gas Services Council (MOGSC), he has served as the Chairman of the Competency and Training Working Group identifying critical industry gaps in the oil and gas industry. His continued service as the Honourary Secretary has also seen his leading participation in the Human Resources Development Fund (HRDF) for the National Occupational Skill Standard (NOSS) and Sectorial Training Committee (STC-17). He is also the current Fellow of the Energy Institute Malaysia and is closely overlooking the development of niche professional accreditation tracks in Malaysia for engineers in the energy sector. Professor Shahir graduated summe cum laude in Civil Engineering from Texas Tech University (USA) in 1983 and subsequently fast-tracked towards the completion of his Ph.D in Civil Engineering in 1988 from the same alma mater.



Lim Eu Shawn obtained his Ph.D in Civil Engineering from Universiti Teknologi PETRONAS (UTP), Malaysia in the areas of offshore engineering with particular emphasis on metocean, seismic engineering, offshore design and asset integrity. He is currently the Head of the Offshore Engineering Centre, UTP (OECU). He actively engages with various major oil and gas corporations on technology development and specialist consultancy solutions He also engages in active competency building in the offshore engineering industry and has previously engaged in training programmes via MSSA and HRDF. He represents MSSA in the development of national offshore structures code MS ISO 19901/2 and is a Chartered Engineer of Energy Institute . He is also an accredited trainer recognized by the Malaysian Human Resource Development Fund (HRDF). He actively seeks collaboration opportunities within the oil and gas fraternity through value enhancement and innovation of technologies via university-industry partnership models

SYNOPSIS

Metocean conditions is one of the prerequisite considerations in the design of installations, rigs and pipelines, the operations of vessels, helicopters, ROVs and also divers. It deals with the complexities of meteorological and oceanographic effects on the offshore conditions as well as its combined effects. Failure will result in overdesign and caused financial overruns or potential structural disaster as a result of inadequate metocean considerations. The aim of the course is at tackling issues pertaining to engineering design, economic appraisal, construction, tow and offshore operations. It will delve into the interpretation and analysis of operational metocean results which to be utilized in identifying weather windows and forecast of weather conditions for operations.

The aim of the course is to:

- To provide awareness of metocean effects on design of offshore structures
- To develop understanding on metocean analysis required to develop the load criteria for design of offshore structures
- To provide perspective on impact of metocean related disasters on O&G facilities

At the end of the course, 3 main questions will be answer :

- Understanding of metocean parameters and how it can influence engineering design
- Design code and analysis for metocean parameters
- Understanding of metocean related disasters through case studies

TENTATIVE PROGRAMME

TIME	PROGRAMME
09:00 – 09:15	Introduction of speaker and topics of discussion
09:15 – 10:30	<ul style="list-style-type: none">• Brief Introduction to Meteorology and Oceanography• Introduction, Engineering Requirements for Metocean Data
10:45 – 13.00	<ul style="list-style-type: none">• Metocean Information (Instrumentation, Measurement and Hindcasting)• Metocean Processes
13:00 – 14:00	<i>Break Session</i>
14:00 – 15:45	<ul style="list-style-type: none">• Regional Conditions (South China Sea, North Sea, Gulf of Mexico, Caspian Sea)• Case Study on Forward Thinking Metocean Applications and Techniques
16:00 – 17.00	Q&A Session
17.00 – 17.30	Conclusion / Evaluation

*** IEM reserves the right to postpone, reschedule, allocate or cancel the course**

REGISTRATION FORM

ONE DAY COURSE ON “PLATFORM AND FACILITIES FOR EXPLORATION AND PRODUCTION INCLUDING
STRUCTURAL HEALTH MONITORING FOR ASSET LIFE MONITORING”
06 OCTOBER 2020 (VIA WEBINAR)

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+ 6% SST				
TOTAL PAYABLE				

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FULL PAYMENT must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch.

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- The Organising Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

For further details, kindly contact:

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