



THE INSTITUTION OF ENGINEERS, MALAYSIA

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TALK ON

“FINITE ELEMENT MODELLING (FEM) OF OFFSHORE STRUCTURES”

(Organised by Oil, Gas & Mining Technical Division, IEM)

BEM Approved CPD/PDP: 2 Hours

Ref No: IEM15/HQ/079/T

Date : 28th July 2015 (Tuesday)
Time : 5.30 pm to 7.30 pm (Refreshments will be served at 5.00 pm)
Venue : Tan Sri Prof. Chin Fung Kee Auditorium, 3rd Floor, Wisma IEM, Petaling Jaya
Speaker : Dr. Venkatesh Rajagopalan

SYNOPSIS

Many problems in engineering and applied science are governed by differential or integral equations. The solutions to these equations would provide an exact, closed-form solution to the particular problem being studied. However, complexities in the geometry, properties and in the boundary conditions that are seen in most real-world problems usually means that an exact solution cannot be obtained or obtained in a reasonable amount of time.

Current product design cycle times imply that engineers must obtain design solutions in a 'short' amount of time. They are content to obtain approximate solutions that can be readily obtained in a reasonable time frame, and with reasonable effort. The FEM is one such approximate solution technique.

This talk will cover the following topics on usage of Finite Element Analysis of offshore structural components:

- Introduction
- Fundamental Concepts & Methodologies
- Advantages & Disadvantages
- General FEA Procedures
- Applications in Offshore Industry & Case Studies
- Live Demonstration

BIODATA OF SPEAKER



Dr. Venkatesh Rajagopalan (Venkat) graduated from Annamalai University, India with a degree in Structural Engineering in 1989 with a Post graduate degree in Engineering Management and Post-Doctoral in Structural Engineering from Nanyang Technological University, Singapore. He has more than 26 years of working experience in various roles.

He is appointed as Visiting faculty for various institutions in India, Malaysia and Australia.

He is currently the Deputy Manager of the Structural Department in Aker Engineering Malaysia Sdn. Bhd. He is also the Technical Head of R&D Network specializing in Knowledge based engineering solutions in Aker Solutions, Norway.

He has presented talks at various symposiums in India, Singapore and Australia on Design on Offshore structural related topics.

Ir. Ahmad Rafidi Mohayiddin

Chairman
Oil, Gas & Mining Technical Division, 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 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/PDP HOURS CONFIRMATION

Name:

Membership No:

Signature: