



# THE INSTITUTION OF ENGINEERS, MALAYSIA

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## TALK ON INTRODUCTION TO MEASUREMENT

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

**Date** : 6 November 2013 (Wednesday)  
**Time** : 5.30 pm to 7.30 pm (*Refreshment will be served at 5.00 pm*)  
**Venue** : Auditorium Tan Sri Prof. Chin Fung Kee, 3<sup>rd</sup> Floor, Wisma IEM, Petaling Jaya.  
**Speaker** : Gilbert M Tonner

**BEM Approved**  
**CPD HOURS: Applying**  
**Ref No: IEM13/HQ//T**

### SYNOPSIS

Measurement is an important part of the oil and gas industry. The industry focus has mainly been on improving safety and optimizing production, but without accurate and credible measurement, there will be an unacceptable level of uncertainty in the amount being produced. This uncertainty may translate to commercial disputes, or improper management of available reserves.

This presentation will provide an introduction to measurement. The session will be broken down as follows:

Part 1: Introduction to Measurement (approximately one hour)

Part 2: Why Measurement is Important (approximately one hour)

The presentations are part of TÜV NEL's 'Free Flow Measurement Training' series.

### BIODATA

Gilbert has worked in the Engineering Industry since 1966 progressively developing a career path, which included a Managing Directorship in a specialised Flow Measurement Consultancy Company. The majority of his career has been concentrated in the area of flow measurement, allocation, sampling and analysis in the Oil and Gas Industry. His current role is developing a Flow Consultancy business for TÜV NEL in the Asia Pacific Region.

Chris is a flow measurement consultant at NEL in Glasgow, Scotland who specialises in the oil & gas industry. He has approximately 5 years experience at NEL and works predominately on consultancy for the oil & gas industry. Chris has in depth knowledge of flow measurement technologies, allocation and measurement uncertainty. Chris has been the technical lead on several high value projects during his time at NEL. Chris's knowledge and expertise were exploited in the NEL led Joint industry Project researching measurement techniques for high viscosity fluids. He was also responsible for the modification to the NEL oil flow facility to incorporate high viscosity fluids up to 1500 cSt. He has presented technical papers on flow measurement at several conferences around the world, including Calgary, Kuala Lumpur, London and Oslo. He has also represented NEL at the Energy Institute HMC-1 meetings and been part of the Oil & Gas Focus Group steering committee.

Ir. Razmahwata Mohd Razalli  
Chairman,  
Oil, Gas and Mining Technical Division, IEM

#### Announcement to note:

1. Admission is free for IEM members only (walk in)
2. Non members will be charge RM20.00 subject to availability of the seats
3. Limited seats available on a "first come first served" basis. (maximum 110 participants)
4. No telephone reservation will be entertained.
5. Latecomers will not be allowed entrance if hall is full.
6. Please bring along this flyer for confirmation of attendance (CPD purpose).

**For IEM members, membership cards should be presented for identification purpose. Failure to present the card will be declared as non-members and will be necessitate payment of the said fee.**

#### FOR OFFICE USE ONLY (CPD HOURS CONFIRMATION)

Name of Member : .....  
M'ship No : .....

Date: .....  
Signature: .....