



THE INSTITUTION OF ENGINEERS, MALAYSIA

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Talk on

Diagnostic Testing & Condition Assessment of Transformers and other HV Equipment

(Organised by Young Engineers Section)

Date : 24 July 2014 (Thursday)
Time : 5.30 p.m. – 07.30 p.m.
Venue : TUS and C&S Lecture Room, 2nd Floor, Wisma IEM, PJ
Speaker : Mr. Herman Vogel
(Vice President of TJH2b Analytical Services North Carolina, USA)

BEM Approved CPD/PDP Hours: 2
Ref No: IEM14/HQ/246/T

SYNOPSIS

Testing of Insulating Fluids and Diagnostics

It has been estimated that transformer fluids contain 70% of the available diagnostic information for transformers. The challenge is to access and use it effectively. This presentation will cover the insulating fluid tests that are useful for providing a comprehensive assessment of transformer, load tap changer and oil-filled circuit breaker condition and TJ|H2b's Diagnostic Protocols (Oil): BOA®, TASA® and TCA®

Sampling Techniques and Managing Variation in Sampling

A poorly drawn or contaminated sample can negate the validity of a test result and an even lead to a potential misdiagnosis. Proper sampling techniques to ensure the collection of a representative sample will be discussed.

SF6 Testing and Diagnostics

This section will cover diagnostic information that can be obtained from the analysis of SF6 contaminants and breakdown products. Sampling, handling and processing of SF6 will be included.

BIODATA OF SPEAKER

Herman has over thirty five years of experience in the field of power and distribution transformers with companies including Thomson Electric, Areva and with GE Energy Services as a SME (Subject Matter Expert) specializing in the design and manufacturing of advanced systems and technologies applicable to the monitoring and diagnostics of oil-filled power transformers and its components.

He is an active member in the IEEE standards committee, member of Cigre and has co-authored several papers on Monitoring and Diagnostics. He is an accomplished speaker and authority having published several papers and conducted presentations at numerous major industry Conferences Globally, such as IEEE Singapore, IEEE Bangkok, University of Minnesota, Doble Engineering Boston and eea (Electrical Engineers Association) New Zealand winning Best Paper Award in 2010.

His education background was completed with the National Education Corporation 1987 on Electrical and Switchgear, College de Boulongne 1991 Management, McGill University 1994 business management, GE Six Sigma 2002, and the Engineering Institute of Canada for Transformers in 2004.

Engr. Vivekasugha Alif bin Gunaan (Grad.IEM)

Chairman

Session 2014/2015

Young Engineers Section, IEM

ANNOUNCEMENT TO NOTE

- Talk is for IEM members only (pre-registration and online registration are NOT required) (telephone and/or fax reservation will NOT be entertained)
- **Non-members** may also attend the talk and will be charged a registration fee of RM50 and an administrative fee of RM10.
- For affiliate members, there will be no registration fee. However, they are requested to produce their membership card as proof of membership. For the list of affiliates, please refer www.myiem.org.my/content/memorandum_of_understanding-469.aspx.
- Limited seats available on a "first come first served" basis (maximum 110 participants).
- IEM members are required to produce your membership cards for confirmation of attendance.
- Latecomers will not be allowed to enter if the lecture hall is full.

IEM members who fail to produce their membership cards will be charged a fee of RM20.00

FUNDS FOR IEM NEW BUILDING (WISMA IEM)

Kindly be informed that participants will be charged **RM10.00** administrative fee for talks organized by IEM. The fee will be used for overhead costs, building maintenance expenses as well as to support the purchase of Wisma IEM. However, students are exempted. Your understanding is much appreciated.

CPD/PDP HOURS CONFIRMATION

Name :
Membership No. :
Signature :