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# TEEAM SERIES OF TECHNICAL TALKS 03/2023

FREE



**Mr. Herman Vogel**  
“Testing of Insulating Fluids  
and Diagnostics”



**Ir. Chew Shee Fuee**  
“Transformers: Basics,  
Maintenance, and Diagnostics”



**21 November 2023 (Tuesday)**



**09:30am - 01:00pm**



**TEEAM Seminar Hall,  
No. 5-B, Jalan Gelugor,  
Off Jalan Kenanga,  
55200 Kuala Lumpur.**

*Pending for CIDB CCD Points*

[www.teeam.org.my](http://www.teeam.org.my)

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*(Register by 15/11/2023)*

# SYNOPSIS

## *"Testing of Insulating Fluids and Diagnostics"*

- *Description of diagnostic oil tests available including Dissolved Gas Analysis (DGA) and Oil Quality Tests.*
- *Comprehensive assessment of transformer (TCA®) and load tap changer (TASA®).*
- *Oil Sampling Techniques - outline of best equipment and method for gaining a representative sample for transformer oil sample.*

## *"Transformers: Basics, Maintenance, and Diagnostics"*

- *The duty of a transformer and the components that are significant in making it work.*
- *The various check lists for the maintenance of a transformer.*
- *A closer look at some of the diagnostic tools to measure the health of a transformer.*

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## SPEAKER'S BIODATA

**Mr. Herman Vogel** joined TJ|H2b in 2011 as VP of Business Development based in USA. He has over forty years of experience in the field of power and distribution transformers and had developed Power Transformer repair and testing program with the Canadian Government for GE. For the last 45 years he has worked for Syprotec Inc., Areva, GE Energy, and GE Canada as a SME expert where he has been involved in all aspects of monitoring and diagnostics of power transformers. He accomplished a Six Sigma degree, SME expert for Transformer, Breaker and Switchgear at College Beaujolais and attended McGill University for Business Law and management. He is an active member in the IEEE standards committee, member of the Cigre US Chapter and produced the TechCon Conference over the past 12 years. He has participated and presented at Doble Engineering conferences and actively participated on research and development for Monitoring & Diagnostics. He has co-authored several papers that have been presented at Doble Engineering, TechCon, Cigre, IEEE Thailand, University of Minnesota and at the EEA New Zealand conferences 2010 and was awarded best international paper/presentation on "Moisture in Power Transformer Insulation".

**Ir. Chew Shee Fuee, KMN B Sc (Hons) (Strathclyde), CEng, FIEM, MIEE Member, IEEE Member, 1st Grade Electrical Engineer (Competent up to 500 kV).** Ir. Chew was President of The Electrical and Electronics Association of Malaysia (TEEAM) for 2001-2005 and 2013-2017. He was the President of the ASEAN Federation of Electrical Engineering Contractors (AFEEC) for 2016-2018. He is the immediate Past Chairman of The Institution of Engineering & Technology (IET) Malaysia Local Network. Ir. Chew is the Managing Director of G H Liew Engineering (1990) Sdn Bhd and Chris Chew Electrical Consultant. He graduated from the University of Strathclyde, Glasgow with a B Sc (Hons) in Electrical & Electronics Engineering. He is a Professional Engineer and is also licensed by the Energy Commission as a Competent Engineer (without voltage limits) and a Service Engineer to carry out electrical testing up to a voltage of 500 kV. He has more than 30 years of industry experience in electrical control and relay protection. He is also specialised in electrical site tests on power equipment, electrical fault investigation, service and maintenance of electrical switchgears and relays. His work also includes electrical supervision of substations and electrical audit. He also presents lectures on electrical apparatus and the protection system. He was Vice-Chairman of MYENC (Malaysian Electro-Technical National Committee) and is a Member of Technical Committees (TCs) and Working Groups (WGs) in Standards Development.

## AGENDA:

- 09:30am Registration and Networking Breakfast**
- 10:00am Welcome Remarks**
- 10:05am Testing of Insulating Fluids and Diagnostics by Mr. Herman Vogel**
- 11:35am Coffee Break**
- 12:00pm Transformers: Basics, Maintenance, and Diagnostics by Ir. Chew Shee Fuee**
- 12:30pm Q & A**
- 01:00pm End**