











About the Conference



TLM goes global

Transformer Life Management 2017

07. – 08. Nov. 2017

Jasmine Hotel - Bangkok

This year the TLM symposium will take place with a special focus on the question:

How can the safety and operation of the transformers in the network be assured in the face of increasing loading and age?

The TLM 2017 attempts to answer this question. Manufacturers, operators, engineers and scientists will present methods and possibilities for transformer condition assessment and improvement, giving you the information to help develop an efficient maintenance concept.

The different diagnostic methods lead to a holistic condition appraisal, helping to identify age related changes and malfunctions at an early stage. This procedure allows early intervention to implement condition improvements that optimize operational reliability.

The main objective of this event is to find ways for prolonging the residual lifetime of transformers and to reduce unplanned outages.

The symposium and associated technical exhibition is directed at engineers, physicists, chemists, technicians and consultants involved in the manufacturing, design, operation, assessment and maintenance of transformers, as well as universities and research institutes with an interest in the reliable operation of electrical networks.









Conference Program - Jasmine City Hotel

Tuesday 07.11.2017

1100-1300	Check-in with welcome Snack and Distribution of the Conference Papers
13 ⁰⁰ -13 ³⁰	Chairman - Welcome and Introducing Prof. DrIng. Peter Werle, University of Hannover
13 ³⁰ -14 ⁰⁰	Technical and Economic Impacts of Distributed Generationon Distribution Systems Mr. Nattachote Rugthaicharoencheep Ph.D.
14 ⁰⁰ -14 ³⁰	Asset Management of Transformer fleets - An Overview Prof.Dr.Ing. Peter Werle, University of Hannover
14 ³⁰ -15 ⁰⁰	What you need to know about Transformer oils Nils Herlenius, Ergon
1500-1600	Coffee Break, Visit the Exhibition
16 ⁰⁰ -16 ³⁰	Mitigating Murphy´s Law While Test Frederic Dollinger, Haefely Hipotronics
16 ³⁰ -17 ⁰⁰	Properties of Ageing Mineral Insulating Oils in Service Chian Yaw TOH, Nynas
1700	Dinner at Jasmine Hotel



EMB





Conference Program - Jasmine City Hotel

Wednesday 08.11.2017

09 ³⁰ -10 ⁰⁰	Chairman - Summarising of First Day Prof. DrIng. Peter Werle, University of Hannover
10 ⁰⁰ -10 ³⁰	Material Testing with VLF on Transformers Jürgen Jakober, b2 High Voltage
10 ³⁰ -11 ⁰⁰	Insulating Liquids for Power Transformers and their use for Condition Assessment Purposes Prof. DrIng. Peter Werle, University of Hannover
11 ⁰⁰ -11 ³⁰	Frequency Converter as Power Supply for Transformer Testing Frederic Dollinger, Haefely Hipotronics
11 ³⁰ -12 ⁰⁰	Real Life Assesment of Natural Ester Filled Rajaram Shinde, Cargill
12 ⁰⁰ -13 ³⁰	Lunch - Visit the Exhibition
13 ³⁰ -14 ⁰⁰	Stray Gassing of different refinery streams and impact of metal deatctivators Nils Herlenius, Ergon
14 ⁰⁰ -14 ³⁰	Demystifying transformer Oil Treatment and regeneration Igor Kudela, Ekofluid
14 ³⁰ -15 ⁰⁰	Experiance with electronic Buchholzgasrelais with Gas Sensors Karin Machura, EMB
1500-1600	Coffee Break - Visit the Exhibition
16 ⁰⁰ -16 ³⁰	Naphthenic Mineral Insulating Oils in a Challenging Market Dynamics Mr. Sutarmono, Nynas
16 ³⁰ -17 ⁰⁰	Measuring Methods for Solubility of Gases in Insulation Liquids- Summary of the day Prof. DrIng. Peter Werle, University of Hannover









Partner in Exhibition











Registration form TLM 2017 in Bangkok

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EMB SMART Buchholz relay

Capacitive sensor (NM-series):

- For analogue measuring of gas accumulation
- Reliable & continuous monitoring of Buchholz gases starting already at 50 cm³



Temperature sensor:

- · For continuous oil temperature monitoring
- Available separately or combined with humidity sensor
- Humidity sensor:
- Constant monitoring of humidity in oil
- For early detection & preventive measuring to extend transformer life time

Buchholz relay 3+3

- Buchholz relay with 6 independent contacts
- ٠ 3 contacts for alarm & 3 contacts for disconnection
- Also available with mechanical pre-alarm system

Buchholz gas tester BGT 4.2



• Measuring and analysis of Buchholz gas directly on site

• For significant lifetime extension of open type transformers Sustained reduction of oxygen in oil through hermetic sealing

• To slow down the aging process of transformer insulating material

- Detection & analysis of H₂, CO, CO₂, C₂H₂, CH₄+
- Enables to decide about the continuous operation of the transformer
 - Easy handling via touch display
- Incl. Buchholz gas sampler BGS

Breathing buffer box G3B



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