

Międzynarodowa konferencja transformatorowa



TRANSFORMATOR'17

Toruń, 9-11 maja 2017 r.

ORGANIZED BY



HONORARY PATRONAGE



IN ASSOCIATION WITH



CONFERENCE AGENDA

Day I – 9th May 2017 r.

13:00	Registration
14:00-15:00	Lunch
15:00-15:15	Welcome Ceremony <i>Wojciech Tabiś (PTPiREE)</i> <i>Hanna Mościcka-Grzesiak (Poznan University of Technology)</i>
15:15-15:30	The transformers in CIGRE papers <i>J. Wańkiewicz (PKWSE)</i>
15:30-15:45	Activities of the Electrical Engineering Committee at the Polish Academy of Sciences <i>A. Demenko (Committee on Electrical Engineering of Polish Academy of Sciences)</i>
15:45-18:00	Tutorial – Overvoltage in transformers
15:45-16:30	Lightning impulse in transformers – theoretical basics <i>F. Mosiński (Lodz University of Technology)</i>
16:30-16:55	Coffee break
16:55-17:40	<i>Investigations of overvoltages in transformer windings</i> <i>M. Florkowski (ABB Sp. z o.o.)</i> <i>J. Furgał, M. Kuniewski, P. Pająk (AGH University of Science and Technology)</i>
17:40-18:00	Discussion
18:00	End of the first day of the Conference
19:00	Dinner

Day II – 10th May 2017 r.

- 06:30-09:00 Breakfast
- 9:00-10:00 **Session 1 – Monitoring and diagnostics of Power Transformers**
1. Transformer Fleet Monitoring in Asset Management
E. Steindl (Maschinenfabrik Reinhausen Automation & Control); Germany
 2. Characteristics of diagnostic procedures for high voltage power transformers implemented in Tauron Dystrybucja S.A.
S. Borucki, A. Cichoń (Opole University of Technology)
J. Frymus, T. Rodziewicz (Tauron Dystrybucja SA)
 3. Transformer design considerations in predictive maintenance of the power systems for strategic objects
J. Strojcki (AB-MICRO Sp. z o.o.)- Commercial presentation
- Discussion*
- 10:15-10:40 Coffee break
- 10:40-12:20 **Session 2 – Diagnostics of Power Transformers**
1. Use of Duval triangles and pentagons
C. Beauchemin (TJ|H2b Analytical Services Inc); Canada
 2. DGA for ester based oil: what is different from mineral oil
C. Beauchemin (TJ|H2b Analytical Services Inc); Canada
 3. „I didn't think about it” – the reason of transformers' failures
A. Krajewska, J. Tomaszewski (Institute of Power Engineering)
K. Waliszewski (Fabryka Transformatorów w Żychlinie)
- Discussion*
- 12:20-12:45 Coffee break
- 12:45-14:05 **Session 3 – Monitoring of Power Transformers**
1. New solutions in power transformers on-line monitoring
M. Andrzejewski, W. Gil (Mikronika)
 2. HF/UHF antenna array used for partial discharges localisation in power transformers
F. Polak, W. Sikorski, K. Siodła (Poznan University of Technology)
 3. Selected structures of antennas used for detection of partial discharges in transformers
C. Szymczak, W. Sikorski, K. Siodła (Poznan University of Technology)
- Discussion*
- 14:05-15:15 Lunch
- 15:15-17:00 **Session 4 – The paper-insulated transformers**
1. Significance of low degree of polymerization of papers in transformers
A. de Pablo (TJ|H2b Analytical Services Inc), Spain

2. Capacitance and resistance of turn-to-turn insulation - measurements in transformers windings determining reliability
J. Bernatt, T. Glinka (Instytut Napędów i Maszyn Elektrycznych KOMEL)
3. Evaluation of the moisture distribution in paper of OIP bushings in service
J. Gielniak, P. Przybyłek (Poznan University of Technology)
4. Study of partial discharges in aspect of water migration in paper-oil system
K. Walczak, W. Sikorski, P. Przybyłek (Poznan University of Technology)

Discussion

17:00-17:15 Coffee break

17:15-18:30 **Session 5 – Diagnostics of Power Transformers**

1. Analysis of the electrical insulating oil Aimed to detect the transformer failure
R. Kozak (ZREW Transformatory S.A)
F. Stuchala (Lodz University of Technology)
2. Specification of transformers for required service
T. Breckenridge (TB TCS Ltd); United Kingdom
3. Advanced reliability-centered transformer maintenance – AHT expert system
M. Owczarek, M. Lasota (ABB Sp. z o.o.)

18:30 End of the second day of the Conference

19:30 Gala dinner

Day III – 11th May 2017 r.

6:30-9:00 Breakfast

9:00-11:00 **Session 6 – Fluids alternatives**

1. Dielectric properties of synthetic and natural biodegradable esters for electrical purposes with particular emphasis on their lightning strength
P. Różga, M. Stanek (Lodz University of Technology)
2. Ester-based dielectric fluids for enhanced transformer reliability and asset life extension
M. Lashbrook, A. Gyore, R. Martin (M&I Materials Ltd); United Kingdom
3. Evaluation of the mineral oil and synthetic ester percentage composition after replacing oil with ester fluid in power transformer
P. Fatyga, H. Morańda (Poznan University of Technology)
4. Drying of cellulose insulation using synthetic ester
P. Przybyłek (Poznan University of Technology)

Discussion

11:00-11:15 Coffee break

11:15-13:15 **Session 7 – Progress in the design and construction of Power Transformers**

1. Methods of voltage regulation in MV power distribution networks
S. Cybulski (ABB Sp. z o.o.)

2. Dry type transformers development
T. Brocki (ABB Sp. z o.o.)
3. Specifics of power protection systems of phase-shifting transformers
W. Schweizer, M. Lizer, P. Suchorolski, H. Dytry (Institute of Power Engineering)
4. Intas – project supporting European Market Surveillances Authorities (MSAs) to deliver compliance with Ecodesign requirements for transformers
R. Targosz (European Copper Institute)

Discussion

13:15-13:30 Summary and closing of the conference

13:30 Lunch