

TIC 2 Day CPD Master Class – Power Transformer Insulation

Program Sydney 21-22 Oct 2019

Venue: Transgrid Training Centre, Old Wallgrove Road, Eastern Creek, Sydney

Day 1, 21 Oct 2019

8.30 – 9.00	Registration	
9.00 – 9.15	Welcome	Ray Holzheimer University of Queensland
9:15 – 10:00	Session 1 The making of cellulosic insulation	Chris Krause Weidmann
10.00 – 10.30	Morning Tea	
10.30 – 12.30	Session 2 Dielectric withstand, breakdown in transformers <ul style="list-style-type: none"> • Breakdown Behaviour – Initiation, Propagation, Breakdown • Insulation Co-ordination and Waveshape (BIL, SIL vs AC) • Puncture and Creep Breakdown Winding Types and their Application	Rob Milledge ABB
12.30 – 1.00	Lunch	
1.00 – 1.45	Session 3 Insulation components – quality features	Chris Krause Weidmann
1.45 – 2.30	Session 4 Insulation design principles	Chris Krause Weidmann
2.30 – 3.00	Afternoon tea	
3.00 – 4.00	Session 5 Dielectric Dimensioning <ul style="list-style-type: none"> • Major Insulation (between windings and to earth) • Minor Insulation (within windings) 	Rob Milledge ABB
4.00 – 4.30	Session 6 Questions and open floor discussion	All
4.30 4.30 - 4.45 4.45 – 6.00	Close Update on TIC Research Projects and CPD courses Pizzas/refreshments	Ray Holzheimer University of Queensland

Note: The program may change. Refer to our website for the latest version. <http://www.itee.uq.edu.au/tic-cpd>

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Day 2, 22 Oct 2019

8:00 – 10:00	<p>Session 7</p> <p>Differences between mineral oil and esters</p> <ul style="list-style-type: none"> • Implications for power transformer insulation design • Thermal Behaviour • Moisture Interaction • Benefits and Risks 	<p>Rob Milledge</p> <p>ABB</p>
10.00 – 10.30	Morning Tea	
10.30 – 11.30	<p>Session 8</p> <p>Insulation drying</p>	<p>Chris Krause</p> <p>Weidmann</p>
11.30 – 12.30	<p>Session 9</p> <p>Static clamping of windings – short-circuit strength</p>	<p>Chris Krause</p> <p>Weidmann</p>
12.30 – 1.00	Lunch	
1.00 – 2.30	<p>Session 10</p> <p>Dynamic short circuit behaviour in Transformers and insulation response</p>	<p>Rob Milledge</p> <p>ABB</p>
2.30 – 3.00	Afternoon tea	
3.00 – 3.45	<p>Session 11</p> <p>Transformers’ secret killers</p>	<p>Chris Krause</p> <p>Weidmann</p>
3.45 – 4.15	<p>Session 12</p> <p>Questions and open floor discussion</p>	All
4.30	Closing of Course	<p>Ray Holzheimer</p> <p>University of Queensland</p>