

TIC 2 Day CPD Master Class – Power Transformer Insulation

Program Brisbane 17-18th Oct 2019

Venue: University Queensland, Brisbane, St Lucia Campus,

Sir James Foote Building 47A, Level 4, SMI Seminar Room.

Day 1, 17th Oct 2019

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| 8.30-9.00 | Registration | |
| 9.00-9.15 | Welcome | Prof Tapan Saha/ 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- 11:45 | Session 2 Where we need insulation | Michael O'Brien GE Grid Solutions |
| 11:45-12.30 | Session 3 Insulation components – quality features | Chris Krause Weidmann |
| 12.30- 1.00 | Lunch | |
| 1.00- 1.45 | Session 4 Insulation design principles | Chris Krause Weidmann |
| 1:45-2:30 | Session 5 The history of some ideas: Multi-duct insulation, petalled collars, the first duct shrinking. Are old designs with bigger margins safer? Major Insulation and FEM | Michael O'Brien GE Grid Solutions |
| 2.30- 3.00 | Afternoon tea | |
| 3.00- 4.15 | Session 6 Winding design for AC and impulse | Michael O'Brien GE Grid Solutions |
| 4:15- 4.30 | Session 7 Questions and open floor discussion | All |
| 4.30 4.30-5.00 5.00-6.00 | Close Update on TIC Research Projects and CPD courses Pizzas/refreshments, St Lucia Campus (5min walk) | Prof Tapan Saha 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, 18th Oct 2019

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| 8:00 -9:00 | Session 8 Insulation drying | Chris Krause Weidmann |
| 9.00 -10.00 | Session 9 Static clamping of windings – short-circuit strength | Chris Krause Weidmann |
| 10.00 -10.30 | Morning Tea | |
| 10.30-12.30 | Session 10 The messy world of Engineering The superiority of Nomex? Electrode design. Rockets or lots of paper? Turret diameters Cut outs, for creep paths | Michael O'Brien GE Grid Solutions |
| 12.30- 1.00 | Lunch | |
| 1.00- 1.45 | Session 11 Transformers' secret killers | Chris Krause Weidmann |
| 1.45-2.30 | Session 12 Nothing lasts forever? In-service findings, including clamping force reduction, DP findings, Air bags, AgS, | Michael O'Brien GE Grid Solutions |
| 2.30-3.00 | Afternoon tea | |
| 3.00 – 3.45 | Session 13 Tracing bad DGA. | Michael O'Brien GE Grid Solutions |
| 3.45 - 4.15 | Session 13 Questions and open floor discussion | All |
| 4:30 | Closing of Course | Ray Holzheimer University of Queensland |