INDUSTRY & ACADEMIC EXPERTS

Rob Milledge
ABB Australia
Rob has had over 40 years experience in Power Transformer electrical and mechanical design, manufacturing, and test, for voltages to 550kV and ratings to 1,125MVA.
Rob is the Chair of EL/8 Committee Standards Australia and a member of Cigre committee – AP A2 Panel. Rob is the Technology Manager and Application Engineer South East Asia Region for ABB.

Gary Russell
Powerlink
Queensland
Extensive knowledge and experience on HV plant design, diagnostic testing, condition monitoring, residual life assessment, forensic investigations, thermal modelling on all types of HV substation plant and equipment. Gary’s role at Powerlink is Principal Engineer Major Plant & Diagnostics.

Dr. Dan Martin
University of Queensland
Awarded by the IEEE for his work on modelling Australian power transformer reliability. Over the past ten years he has worked with the utilities to improve their understanding of managing ageing assets.

Dr. Wenyu Guo
OMICRON
Australia
Wenyu has been with OMICRON Australia as a Field Application Engineer since 2012. He is also the Asia-Pacific Regional Application Specialist for power transformers testing.

Karl Haubner
Doble Australia
Karl Haubner joined Doble Engineering in 2004 and is employed as the High Voltage Test Application Engineer. Karl also provides testing and consultancy services to the industry via his company High Voltage Solutions.

Brian D. Sparling
Senior Technical Advisor
Dynamic Ratings Inc.
Brian D. Sparling, a Senior Member of IEEE, is a with Dynamic Ratings Inc. For the last 24 years, he has been involved in all aspects of on-line monitoring and diagnostics and condition assessment of power transformers.

Dr. Thomas Smolka
Managing Director
Reinhausen
Thomas is a specialist in grid planning, grid integration of dispersed generation units based on renewable energies. Thomas has been responsible for the business development of voltage regulation distribution transformers (VRDT).

Emmanuel Santos
Senior Asset Engineer
Western Power
Emmanuel Santos has been employed with Western Power since 2006 and currently works as a Senior Asset Engineer in Asset Performance – Substation Group. Prior to Western Power, Emmanuel worked in Testing and Diagnostics and other engineering roles.

Ross Kempnich
Technical Operations Mgr.
Essential Energy
Ross has worked for Essential Energy/predecessors for 36 years. He has “hands on” experience with transformer bushings. His is heavily involved in the testing, maintenance, and condition assessment of all types of substation plant and equipment.

Pricing

TIC MEMBERS

PLATINUM

Platinum Attendee
Complimentary (Conditions Apply)

Additional Platinum Member Attendees ............... $1300 pp.

GOLD

Member Attendees: ............... $1500 pp.

NON TIC MEMBERS

ONE ATTENDEE ....................... $1650 pp.
Three or more Attendees (10% DISCOUNT)

All prices are inclusive of GST.

REGISTER ONLINE AT:
http://www.itee.uq.edu.au/TIC-cpd

Registrations close 8/2/18
(Unless all places filled earlier)

Venue:
Queensland University St Lucia Campus,
Brisbane.
Building No1 Forgan Smith, Room W431
Key Learning Outcomes:

- Understand the basic principles of design of HV Bushings.
- Learn the differences in technology for SRBP, OIP, RIP, RIS bushings and how these differences influence your maintenance and asset strategies.
- Be informed of the latest Australian HV bushing failure statistics.
- Understand the mechanisms of HV bushing failure.
- Learn how to detect bushing failures using offline techniques such as advantages of dissipation factor and capacitance over different frequencies. Learn practical methods to improve your bushing testing methodology.
- Understand online bushing monitoring techniques, what they measure, and diagnostic tools in common use.
- Learn what other electrical utilities are doing in bushing life cycle management, testing, replacement practices and issues, determining end of life and justification to mitigate risks.
- Participate in group sharing activities and build your network of friends and technical experts.

COURSE OUTLINE-HV Bushings

DAY 1—12 February 2018, 9.00am-4.30pm
Design—Basic principles of design, Manufacture of bushings and how it affects end user, Differences in technology SRBP, OIP, RIP, RIS, how to care for your bushings, what you should be careful about.

Maintenance of Bushings—Transmission companies maintenance issues with SRBP bushing test results, DLA tap failures, key considerations when replacing old bushings with non identical types.

Failure statistics—Australian failure statistics.

Mechanism of failure—Understanding failure mechanisms, case studies.

Group sharing experiences/questions—Participants will share issues with maintenance, testing, asset strategies, replacement, condition monitoring, case studies.

DAY 2—13 February 2018, 8.00am-4.15pm
How to detect bushing failures and carry out condition assessment using off line techniques
Bushing diagnostics by dissipation factor and Capacitance measurement at different frequencies. Practical methods to improve bushing testing/diagnostics including case studies.

How to detect bushing failures and assess the condition using online techniques
Online Bushing partial discharge measurement, intelligent diagnostics. Measurement in changes of capacitance (C) and dissipation factor (tan δ), and double reference method.

Implementing Life cycle Oriented Maintenance of Bushings—two utilities share their experiences:
Maintenance practices used on the fleet of bushings, suite of tests to determine condition of HV bushings condition & risk based maintenance, risk mitigation.

Who Should Attend?

- Procurement, Asset Strategists, maintenance managers and engineers.
- Generation, transmission and distribution personnel.
- Consultants, designers and operations staff in the renewables, manufacturing, mining, industrial and infrastructure organisations.

Course numbers are LIMITED.

Book NOW to secure a place.

Register via the link at:
http://www.itee.uq.edu.au/TIC-cpd

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