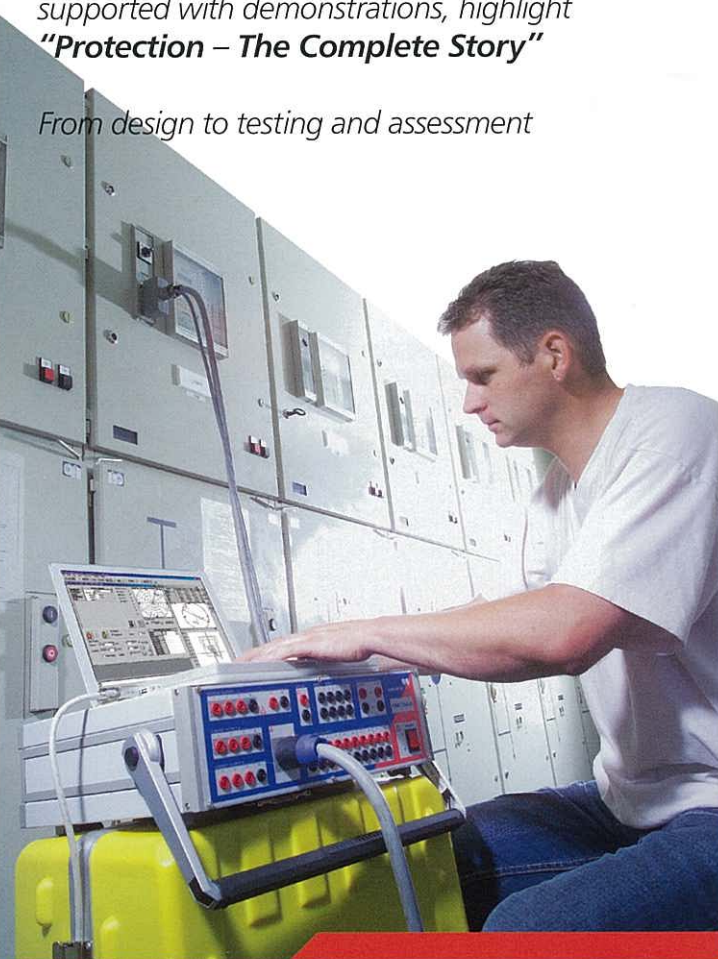




AUSTRALIAN PROTECTION SYMPOSIUM 2007

International and National expert speakers, supported with demonstrations, highlight "Protection – The Complete Story"

From design to testing and assessment



Key Speakers:

Dr. Fred Steinhauser, OMICRON electronics GmbH, Austria
Fred holds a degree in Electrical Engineering and a Doctor's degree in Technical Sciences. From 1990 to 1998 he worked in different industries. In 1998 he joined OMICRON, where he worked extensively on aspects of testing power system protection. In 2000 his main focus turned to sub-station communication issues. Fred is OMICRON representative in the UCA International Users Group. As a member of WG10 and WG17 in the TC57 of the IEC he contributes to the standard IEC 61850. He is also a member of SC B5 of CIGRÉ.

Dean Sharafi, Western Power Corporation, Australia
Dean completed a Bachelor of Science (Applied Physics) at Isfahan University of Technology and a Bachelor of Science (Electrical Eng., Power Systems) at Power and Water Institute of Technology, Tehran. He has extensive experience in the design of protection and control systems, testing and commissioning of major substations and power stations in the Middle East, South-East Asia and Australia. - Dean has been with Western Power Corporation since 2003 and currently manages the Transmission Field Engineering Section. The group provides engineering services and consultancy services for the states transmission network. Dean also lectures in "Power System Grounding" at Curtin University of Technology in WA for a Master Degree Program.

Greg Lodge, TransGrid, NSW, Australia
Greg commenced his career as an Apprentice at Wangi Power Station. He continued his studies and soon obtained his Electrical Engineering Certificate. Greg has many years of experience as a Technician and Engineering Officer in major power stations and the NSW transmission system. In recent years he has been a leading developer of test programs at the TransGrid Newcastle Regional Centre.

Manish Gupta, OMICRON electronics Asia Limited, Hong Kong
Manish graduated in Electronics Engineering in 1987. He joined ABB (BBC) in the Protection Relays division. Manish's main focus was the Commissioning and Production of distance protection relays. By 1997, he was responsible for the complete Technology function as well as Quality Management System (ISO9001). - In 2000, Manish joined OMICRON at their Regional head office for Asia-Pacific in Hong Kong as Area Manager. Manish Gupta has performed many training programs and field demonstrations throughout the region and has presented numerous papers at various national and international conferences.

Conference Program

Protection – The Complete Story

- **Separating necessities from niceties while considering cost and reliability**

Design approach to meet critical system needs. With the complexity of contemporary Protection Devices where do you draw the line on the application of features? When is too much protection a risk to reliability?

- **Critical Aspects of Protection Design and Application**

Examine critical aspects of the physical structure of protection systems in Generation, Transmission and Distribution Systems. Compare the traditional approach to future trends and the promise of IEC61850.

- **Efficient methods of transferring design settings to field settings**

Methods of transferring design settings to actual field settings. Making the most of communication, feedback and mutual support through the design, construction and commissioning stages.

- **Efficient and effective testing techniques**

Explain the steps which produce efficient and effective testing techniques. Show how to make the most of expert support and resources. Compare the approaches of detailed measurements verses system simulation.

- **Reviewing field results – does the end result match the initial intention?**

Reviewing field results – Does the end result match the initial intention? Who bears the overall responsibility?

- **Additional Tests in Protection Systems**

Additional Tests in Protection Systems i.e. System Simulation. Examining external factors, such as line impedance, ground factor and mutual interference and their effect on the correct operation of protection relays.

- **Demonstration - Testing a relay using IEC 61850 protocol**

- **Demonstration - Transferring design settings to the relay and test plan**

