

# SEAPAC 2015

## DAILY PROGRAMME



DAY 1 – TUESDAY 17 March		Paper No.	Presenter	Company	
<b>Registration</b>					7:45
Welcome			Ian Young	CIGRE AP B5	8:30 – 8:45
Keynote Address			Ian McLeod	Chief Executive, Ergon Energy	8:45 – 9:15
<b>Theme – DISTRIBUTED GENERATION &amp; AUTOMATION</b>					
Mitigation of Transformer Inrush Current Associated with DER Facilities		11	Pierre Taillefer	VIZIMAX Inc	9:15 – 9:30
Protection of Future Active Distribution Networks with Distributed Generation		61	Hannu Laaksonen	ABB Oy	9:30 – 9:45
Requirements for Real Time Digital Simulation of Wide Area Protection & Control		33	Cyprian Peters	RTDS Technologies Inc.	9:45 – 10:00
New Approach to Maximizing Reliability		45	Ervin Fekovic	S&C Electric Company	10:00 – 10:15
Q&A			Rob Coggan		10:15 – 10:30
<b>Morning Tea</b>					10:30 – 11:00
<b>Theme – PROTECTION AND CONTROL DESIGN</b>					
Western Sydney Supply Project: Protections System Designs to Commissioning		7	Gurinder Saluja	TransGrid	11:00 – 11:15
Application of Distance Protection to a Four-Ended Transmission Line		31	Khang Dang	Western Power	11:15 – 11:30
Protection Of A 220kV 50 MVar Shunt Reactor Directly Connected At One End of a 220 kV Cable Circuit		42	Winodh Jayewardene	AECOM Australia Pty Ltd	11:30 – 11:45
Upper Tumut Switching Station Automatic Synchronisation Systems		6	Terry Foxcroft & Michael Thompson	Snowy Hydro Limited, SEL	11:45 – 12:00
Q&A			Marino Pallotta		12:00 – 12:15
<b>Lunch</b>					12:15 – 13:15
<b>Theme – INTER-S/S COMMUNICATION &amp; CYBER (SYSTEM) SEC</b>					
System Management using Advanced Wide Area Digital Control Featuring IEC61850		30	Ali-Sherkat Masoum	Western Power	13:15 – 13:30
MPLS/TP Networks for Inter Substation Communication for Current Differential Protection Applications in Digital Substations		41	Joyce Lin	Alstom Grid Australia	13:30 – 13:45
A defense in depth implementation		34	Jérôme Arnaud	Alstom Grid	13:45 – 14:00
Securing the Electronic Perimeter		36	Matthew Oong	Eaton's Cooper Power Systems	14:00 – 14:15
Future enhancements in Substation Automation systems: Leverage security implementation		43	Chan Yeat	Eaton's Cooper Power Systems	14:15 – 14:30
Q&A			Lester Schutz		14:30 – 14:45
<b>Afternoon Tea</b>					14:45 – 15:15
<b>Theme – PROCESS BUS &amp; TIME SYNCH</b>					
Practical applications for Process Bus using the standard IEC 61850 - 9 - 2LE, what makes sense now, what are the advantages and what are the challenges with this new emerging technology.		26	Warner Priest	Siemens Ltd	15:15 – 15:30
Process Bus and SCADA Equipment Control		37	Richard Hunt	GE Digital Energy	15:30 – 15:45
Time Synchronisation – Applying the right IEEE 1588 clock to Achieve Sampled Value and Synchrophasor Performance		46	Rod Hughes	Siemens Australia	15:45 – 16:00
Architectures for Substation time synchronisation – Present and Future		14	Mike Chen	Alstom Grid	16:00 – 16:15
Q&A			Trevor Scott		16:30 – 16:45
<b>Cocktail Function</b>					17:00 – 20:00



<b>DAY 2 – WEDNESDAY 18 March</b>		<b>Paper No.</b>	<b>Presenter</b>	<b>Company</b>	
<b>Registration</b>					8:00 –
<b>Theme – IEC61850 TRAINING &amp; APPLICATIONS</b>					
The Importance of Training for the Successful Development & Delivery of Digital Substation Automation Systems	52	James Stokes	Jarrah Solutions		8:30 – 8:45
Automation Solutions Using IEC61850 GOOSE	20	Gideon Strydom	BECA		8:45 – 9:00
Substation HMI in an IEC61850 and Legacy environment Engineering process and integration	48	Daniel Moulds	Powerlink		9:00 – 9:15
New generation secondary systems design for Ausgrid North Sydney Zone Substation including IEC61850 with multivendor RTU and IEDs	68	Ben Haines	AUSGRID		9:15 – 9:30
Can Greenfield and Brownfield secondary systems co-exist Greenfield, Refurbishment and Augmentation Projects	47	Bruce Capstaff	Powerlink		9:30 – 9:45
Q&A		Lester Schutz			9:45 – 10:00
<b>Morning Tea</b>					10:00 – 10:30
<b>Theme – FAULT ANALYSIS</b>					
Faulting the System – The Ultimate Commissioning Test	2	Jimmy Chong	Tasmanian Networks Pty Ltd		10:30 – 10:45
High impedance Disturbance Records	23	Ian Young	Schneider Electric		10:45 – 11:00
Fallen conductor and failed HV bridge detection using under voltage brownouts	24	Jethro Kairys	Ausnet Services		11:00 – 11:15
Unsynchronised Fault Location on Asymmetrical Lines	25	Darren Spoor	TransGrid		11:15 – 11:30
Hawkes Bay Loss of Supply Event - Local Consultation on Mitigation Options	50	Peter Bishop	Transpower		11:30 – 11:45
Power Swings during Fault Conditions – Blackout Analysis and Avoidance	57	Joerg Blumschein	Siemens AG		11:45 – 12:00
Q&A		Trevor Scott			12:00 – 12:15
<b>Lunch</b>					12:15 – 13:15
<b>Theme – CONFIGURATION MNGMT, STANDARDISATION &amp; VALIDATION</b>					
Requirements and experience of practical secure access control and management of intelligent systems	12	Rodney Hughes	Siemens Australia		13:15 – 13:30
Remote Setting Changes	40	Graeme Heggie	Electranet		13:30 – 13:45
Substation Automation Systems -Future Possibilities for Commissioning	49	Shane Williams	Powerlink		13:45 – 14:00
Implications and Benefits of Standardized Protection and Control Schemes	65	Alexander Apostolov	OMICRON electronic		14:00 – 14:15
Total Device Management with IEC-61850 and Device Active Monitoring	66	Anthony Eshpeter	SUBNET Solutions		14:15 – 14:30
Q&A		Rob Coggan			14:30 – 14:45
<b>Afternoon Tea</b>					14:45 – 15:15
<b>Theme – GOOSE DESIGN, ISOLATION &amp; TESTING</b>					
IEC 61850 GOOSE isolation cross edition and cross vendor	5	Graeme McClure	Ausnet Services Australia		15:15 – 15:30
A technique for analyzing the GOOSE packets transferring in the backstage of testing protection relays in IEC 61850-8-1	32	Shawn Nick	Insulect		15:30 – 15:45
Testing Protection and Automation through IEC 61850 Edition 2	60	Dylan Jenkins	Alstrom Grid		15:45 – 16:00
Isolation of IEDs for Testing in IEC 61850 Based Substation Protection Systems	64	Alexander Apostolov	OMICRON electronic		16:00 – 16:15
GOOSE Isolation – One Method or Many?	10	Lester Schutz	ABB Australia		16:15 – 16:30
Q&A		Marino Pallotta			16:30 – 16:45
<b>CONFERENCE CLOSE</b>					

## CIGRE Australia - SEAPAC 2015 Conference Technical Tour

### THURSDAY 19 March

PPE Required:  
 Long trousers, shirts, enclosed footwear  
 [hard hat/vests will be supplied at each site]  
 A morning tea box will be supplied

Location	Time	Duration
Imax Building Bus Stop 31 Wheat Road Darling Harbour	7.45am	
Departure	8am sharp	
Travel to AusGrid - North Sydney [entry from Harnett St.]	Arrive: 8:20am	
<b>North Sydney Substation Visit</b>		60 min
Travel to TransGrid - William Holmes St and Rookwood Road, Yagoona [entrance is off William Holmes St]	Depart: 9.20am	70 min
<b>Rookwood Visit</b>	Arrive: 10.30am	60 min
Travel to Sydney Domestic Airport	Depart 11.30am	40 min
Sydney Domestic Airport	Arrive: 12:10pm	
Travel to Imax Building 31 Wheat Road Darling Harbour	Arrive: 12:30pm	20 min