

# ESAA 2007 Residential School in Electric Power Engineering

## *Power Industry: Growth and Innovation in a Changing World*

21 January – 2 February 2007



### The School and its Objectives

The ESAA 2007 Residential School will provide industry engineers and scientists/managers/consultants with an exposure to the latest developments in electric power engineering. It will discuss new developments and practices across a wide spectrum of technical and managerial activities.

### Topic Areas

The School is conducted over thirteen consecutive days and comprises a comprehensive program of lectures, discussion groups, group work and technical visits.

The presenters are recognised experts in their topic area drawn from Australian industry, universities and the electricity supply business. In addition, senior industry executives will provide evening presentations on current issues facing each business.

The main topic areas are:

- New Approaches to Asset Maintenance
- Industrial Customer and Supply Issues
- Designing, Planning and Operating Large Networks
- Advances in Condition Monitoring
- Advances in DC Interconnections \*
- Substation, Cable and Transmission Line Fundamentals
- Advances in Critical Infrastructure Protection (Security)
- Power Quality and Reliability
- Generating Electricity in the 21<sup>st</sup> Century
- Introduction to Hydro-Electricity Generation \*
- Advances in Plant Condition Monitoring
- Advances in Energy Efficiency/Demand Management
- Protection/Metering/Earthing Challenges
- Markets and Regulations

### Technology Seminars

A special feature of the school will be two one-day seminars on topics indicated with an asterisk above.

### Technical Visits

Participants will have opportunities to visit major utility installations in Tasmania.

### Who Should Attend

Those with a background in distribution and generating utilities and transmission companies, heavy industry, engineering science or management with several years experience or who are involved in consulting, business development, design, operation or maintenance to the above sectors will find the school most valuable.

The School will not only enhance their skills but also provide a broader basis for further development of their careers. A professional engineering degree whilst useful is not a pre-requisite.

### Group Work/Syndicates

The School will include an opportunity for an in-depth examination of a particular topic in a group work situation. The subject areas may include:

- Real Options for Demand Management
- The Case for Coal-fired Generation
- Disaster Prediction and Management for the Utility
- Power System Protection in the Next Century
- Data Mining / Data Warehousing
- Power Quality and Reliability Issues

### Accommodation and Venue

The School will be held at Christ College, Hobart, Tasmania.

### Registration

The closing date for registration is 15 December 2006. The cost of the School for ESAA Full and Associate members is \$6000 inclusive of GST and for non-members of ESAA the cost is \$6500 inclusive of GST. A non-refundable deposit of \$500 per delegate is required with the return of this registration form. The balance must be paid before 7 January 2007. Please make cheques payable to the University of Tasmania (School of Engineering). If for any reason you cannot attend, your registration is fully transferable within your organisation.

### Steering Committee

Michael Negnevitsky (University of Tasmania) – Chair  
Peter Greenwood – School Manager  
Michael Green (Transend Networks)  
Shilpa Karri (Transend Networks)  
Ian Gibb (Aurora Energy)  
Andrea Dickinson (Aurora Energy)  
Marian Piekutowski (Hydro Tasmania)  
Paul Dennis (TEMCO-BHP Billiton)  
Barend van der Poll (TEMCO-BHP Billiton)  
Mohammad Kashem (University of Tasmania)  
Geoff Harper (IEAust)

### Further Information:

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