

## API 2008 Residential School in Electric Power Engineering

### Power Industry Solutions for Customers in the 21<sup>st</sup> Century

4 February – 22 February 2008



#### The School and its Objectives

The API 2008 Residential School has adopted a new model, which involves three one-week modules to satisfy different industry needs. The first week includes tutorials and workshops for recent graduates and new employees to the power industry with the target audience from 2 to 5 years of experience. The second week provides an overview of the energy supply industry and discusses latest developments and practices across a wide spectrum of technical and managerial activities. The target audience are engineers, managers and consultants with experience ranging from 2 to 20 years. The third week will provide an exposure to specialised topics of interest to more senior staff with experience from 10 to 20 years.

#### Topic Areas

The School is conducted over three weeks 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:

- An overview of generation, transmission and distribution
- Substation, cable and transmission line fundamentals
- Fundamentals of protection and earthing
- New approaches to asset management
- Power quality and reliability
- Industrial customer supply and power quality issues
- Design, planning and operation of large networks
- Micro generation and renewable technologies \*
- Smart grids \*
- Advances in control, metering and automation
- Advances in condition monitoring
- Advances in energy efficiency and demand management
- Climate change: challenges and opportunities for power industry \*
- Markets and regulations

#### Technology Seminars

A special feature of the School will be three 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, or management or who are involved in consulting, business development, design, operation or maintenance to the above sectors will find the School most valuable. Typically, recent graduates and new power industry technical staff would attend weeks 1 and 2 (but also benefit from participating in week 3). Experienced power engineers, managers and consultants would attend weeks 2 and 3. However, attendees may select one of the three weeks on offer if this meets their needs.

The School will not only enhance the attendees 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:

- Connection Agreement Negotiation: Key Issues
- Network Augmentation and Regulatory Test
- Power System Protection in the 21<sup>st</sup> Century
- National Electricity Regulations for Wind-farm Connections
- Incident Control Systems
- Real Options for Demand Management

#### Accommodation and Venue

The School will be held at John Fisher College, Hobart, Tasmania. Week 3 will be based in a suitable hotel in Launceston, Tasmania.

#### Registration

The closing date for registration is 15 December 2007. The cost of two-week registration (weeks 1 and 2, or weeks 2 and 3) for the API members is \$7,250 inclusive of GST and for non-members of API the cost is \$8,250 inclusive of GST. Special 10% discounts are available for early-bird registrations fully paid received by 1 September 2007 and for more than 5 registrations received fully paid, from the same organisation. **Please note if an organisation therefore has 5 applicants who are all early bird, we would be offering them 20% discount!!!**

The cost of one-week registration (either week 1, 2 or 3) for the API members is \$4,000 inclusive of GST and for non-members of API the cost is \$4,500 inclusive of GST.

A non-refundable deposit of \$500 per delegate is required with the registration. The balance must be paid before 15 January 2008. 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  
Paul White – School Manager  
Michael Green (Transend Networks)  
Shilpa Karri (Transend Networks)  
Amanda Harper (Aurora Energy)  
Andrea Dickinson (Aurora Energy)  
Marian Piekutowski (Hydro Tasmania)  
John Titchen (Hydro Tasmania)  
Paul Dennis (TEMCO-BHP Billiton)  
Paul King (TEMCO-BHP Billiton)  
Mohammad Kashem (University of Tasmania)  
Geoff Harper (Engineers Australia)  
Frank Martinelli (Engineering Education Australia)

#### Further Information:

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