



The Australian
Power Institute

2017 SUMMER SCHOOL

SUNDAY 19 FEBRUARY - FRIDAY 3 MARCH, 2017

Theme

Agile - Innovative - Proactive

Transitioning to the Future - An Agile Innovative Energy Industry
Facilitating the Changing Needs of Customers, Community & Shareholders.

Why should employers send delegates?

- Delegates will broaden knowledge, boost experience levels and develop strategic leadership skills associated with the development and implementation of technology, which will enhance business performance and further evolve future leaders/managers within the industry
- Enhance delegate asset and risk management skills to improve efficiencies and service to customers
- Gain access to a range of best practice solutions (through industry leaders sharing case studies and practical experiences)
- Establish a network of contacts across the industry/nation

How will delegates personally benefit?

- Acquire a range of best practice technical solutions with a practical focus that will address current and future key issues and challenges facing the industry
- Broaden skills, increase network of professional contacts, position participants well for advancement in the industry
- Improve global industry knowledge and position well for professional advancement
- Receive certificate of continuing professional development completion
- Advance Personal CV

Venue

Mount Lofty House & Conference Centre, Crafers, Adelaide (Adelaide Hills: Approximately 25 minutes drive from Adelaide Airport)

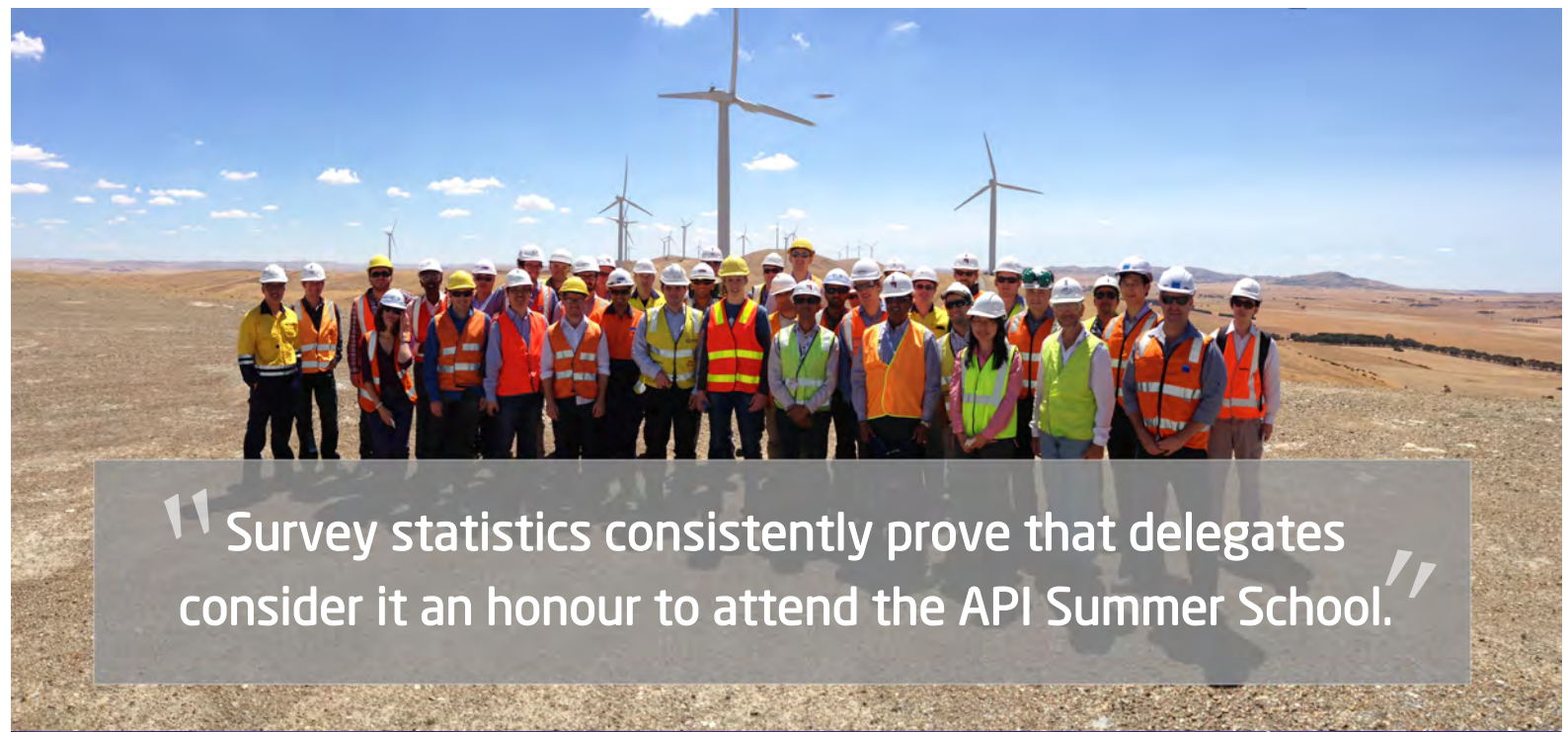
Investment

Total investment for the summer school includes a first class residential program (including group activities and site visits), electronic copies of all presentations, accommodation and meals (including all group dinners and functions) and an attendance certificate recognised by Engineers Australia (EA) for Continuing Professional Development (CPD) in accordance with EA CPD guidelines.

Early Bird Registration

Early Bird cut off date:
October 31, 2016

Registration close date:
December 19, 2016



“ Survey statistics consistently prove that delegates consider it an honour to attend the API Summer School.”

AIM OF THE SUMMER SCHOOL

- Provide power engineers with 4-15 years of experience (can include para professionals) from all sectors of the industry (i.e. generation, transmission, distribution, consulting, manufacturing, end users) with a broad understanding of the industry drivers and key issues.
- Provide experienced engineers from other industries, joining the power industry, with power engineering applied fundamentals and best practice.
- Provide accelerated technical leadership skills and awareness of technology to enhance business performance through high performing power engineering staff.
- Bring industry personal with diverse experience together to share learnings and experiences in order to develop personal networks for ongoing future developments and careers.

BENEFITS FOR THE DELEGATES

- Gain an understanding of drivers and issues in industry sectors that are relevant to your own field of experience.
- Accelerated development and sharing of learning through case studies, field sites and a real world industry syndicate project.
- Update on best practice technical applications, technology and industry trends.
- Development towards future positions of leadership of engineering teams and technical specialists.
- Established network of power engineering industry contacts + USB with delegate profiles.
- New practical skills and knowledge ready to be applied in the workplace

BENEFITS FOR THE EMPLOYERS WHO SEND DELEGATES

- Employees will enhance their technical and leadership knowledge and overall business performance.
- This program will provide current employees with essential recourses in order to provide a smooth transition into future leaders/managers roles.
- Allows for professionals of all levels and diverse backgrounds to interact and share knowledge amongst one another
- Which then provides innovative insight to resolve issues and provide solutions that in effect, will boost company achievements.

UNIQUE DELIVERY OF THIS RESIDENTIAL PROGRAM INCLUDES:

- Residential, intensive two week program in a first class learning environment.
- Each day's program will commence with an introduction to the Drivers, Key Issues and Fundamentals of the designated "daily theme" and then build towards options, solutions, and industry best practice. Each session will have ample question time to facilitate interaction between delegates and expert presenters.
- Extensive use of case studies to share learnings and problems encountered.
- Mix of expert presenters, panels/forums, site visits and syndicate work, to ensure maximum learning outcomes.
- Balance of presentations from industry and universities to ensure a sound understanding of fundamentals and practical application within industry.
- Syndicate teams of 3-5 will be formed to work on a defined industry case study and/or problem which will be facilitated by a subject matter expert. Delegates are requested to select a topic/field that they are not currently working in so that they can widen their knowledge and broaden their outlook.
- Networking with high performing technical staff identified as potential leaders in the industry (delegates consider it an honour to attend).
- Support by The University of Adelaide
- Recognised by Engineers Australia for Continuing Professional Development (refer to Engineers Australia Guidelines for recognition of CPD hours).
- Provision of a safe environment, particularly during site visits.
- Opportunity to explore local attractions during limited leisure time.
- To obtain maximum benefit from this program delegates should plan no other work commitments during the 2 week period.

** Delegates are advised that partners and/or families should not join in attendance due to the intensive nature of the program and schedule.*

DETAILED SCHEDULE

WEEK ONE	Mon 20 Feb	Tues 21 Feb	Wed 22 Feb	Thur 23 Feb	Fri 24 Feb	Sat 24/5Feb
	Electricity Markets Transitioning to the Future	Facilitating Changing Needs of Customers & Community	An Agile, Innovative Generation Sector	Field/Site Visits	An Agile, Innovative Energy Delivery Sector	Field/Site Visits
7.00 – 8.30	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
8.30 - 9.30	Energy Market Policy to Address Customer Expectations and Role of Energy Market Commission	Australian Energy Consumers Current/Future Expectations & Drivers	Integration of Renewables into NEM - The Challenges of the Changing Generation Mix	SA Power Networks Innovation Centre	Energy Delivery Drivers, Key Issues and Future Evolution	Wind Farm Tour
9.30 - 10.30	Taking the Grid into the Future – Leaving the Old Paradigm Behind	Australia's Electricity Markets - Strategy & Policy Issues	Renewable Technologies in the Future NEM.		Innovative Asset Management - The Journey	
10.30 - 10.45	Morning Tea	Morning Tea	Morning Tea	SA Power Networks Control Centre	Morning Tea	Morning Tea
10.45 - 11.45	Energy Regulation to Support Finding the Balance between Rules, Prices, Customer Expectations and Network Investment	Smart House Technologies	Renewable Energy in Australia - Challenges & Opportunities		ElectraNet City West Terminal Substation	Reducing Network Costs through Probabilistic Planning incorporating Demand Response and its Uncertainties
11.45 - 12.45	Australian Energy Market Operator Role in Transitioning to the Future	Customer Perceptions & Customer Engagement Frameworks	Renewable Technologies – Wind	Reliability & Power Quality Standards & Frameworks		
12.45 - 1.30	Lunch	Lunch	Lunch	Lunch	Lunch	Wind Farm Tour
1.30 – 2.00	Delegate Presentations	Delegate Presentations	Delegate Presentations		Delegate Presentations	
2.00 - 3.00	Syndicate Work Commencement	The Customer Centric Grid	Australia Solar & Storage - Transitioning to the Future	Syndicate Work	Asset Risk Management to Deliver Maximum Value for Stakeholders & Customers	
3.00 - 4.00	Syndicate Briefings with Facilitators	Customer Distributed Generation Sources and Integration to the Grid	Renewable Technologies - Grid Connected Solar		Integrated Planning - Innovation & Agility in Planning	
4.00 - 4.15	Afternoon Break	Afternoon Break	Afternoon Break		Afternoon Break	
4.15 - 5.30	Cont. Syndicate Briefings with Facilitators	The Australian Power Institute Objectives & Achievements	Gas Generation & Large Scale Community Battery Storage - A Case Study	Kangaroo Island Cable Project - Case Study	Secondary Systems Fundamentals & Best Practise	

WEEK TWO	Mon 27 Feb	Tues 28 Feb	Wed 1 Mar	Thur 2 Mar	Fri 3 Mar
	Technology Enablers to Drive Innovation & Agility in Asset Management	Transitioning to the Future with Energy Storage	Evolution of New Businesses- An Agile, Innovative Industry	Syndicate Presentations Day	Industry Senior Leaders -Outlook for Transitioning to the Future
7.00 – 8.30	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
8.30 - 9.30	Network Transformation Program - Findings & Future Actions	Transmission Storage -ARENA Project	The Changing Global Environment - Implications for Power System Development	Syndicate Presentations 1 & 2	Industry Chief Executive Officer Forum - SA Power Networks - ElectraNet - AEMO
9.30 - 10.30	Technology & Storage for Voltage Management in Distribution Systems	Energy Storage Fundamentals	Innovation Framework Proposed between Industry & Universities using a New Model	Syndicate Presentations 2 & 3	
10.30 - 10.45	Morning Tea	Morning Tea	Morning Tea	Morning Tea	Morning Tea
10.45 - 11.45	IEC61850 Implementation; A Case Study : Lessons Learned	Energy Storage Case to Delay Augmentation	CIGRE Looking Forward: Innovation and Technical Highlights from 2016 Paris Session	Syndicate Presentations 3 & 4	Delegate Program Feedback
11.45 - 12.45	Moving Beyond the Substation - What Changes are Needed in the Operational Technology Environment?	Syndicate Work	Syndicate Work	Syndicate Presentations 4 & 5	
12.45 - 1.30	Lunch	Lunch	Lunch	Lunch	Lunch
1.30 – 2.30	Impact of Electrical Vehicles and Impact on Networks	Syndicate Work	Syndicate Work	Syndicate Presentations 6 & 7	Airport Transfers
2.30 – 3.30	Technology for Best Practice Bushfire Risk Management - Case Study			Syndicate Presentations 8	
3.30 - 4.00	Afternoon Break	Afternoon Break	Afternoon Break	Afternoon Break	
4.00 - 5.00	Managing Big Data & Data Analytics	Delegates Voluntary "Special Interest" Session & CIGRE NGN Presentation	Syndicate Work	Presentation of Certificates	
5.00 - 5.30	Syndicate Work			Summer School Photo Session	
Evening				Summer School Celebration Dinner	



100% of attendees said they would recommend this program to their colleagues.

INVESTMENT (GST INCLUDED)

	Early Bird	Standard
Governor Member	\$9,350	\$11,000
Principal Member	\$11,000	\$12,100
Industry Member	\$12,100	\$13,200
Non Member	\$13,200	\$14,300

*A discount applies for early bird registrations before 31 October 2016. The closing date for standard registration is 19 December 2016.

ACCOMMODATION

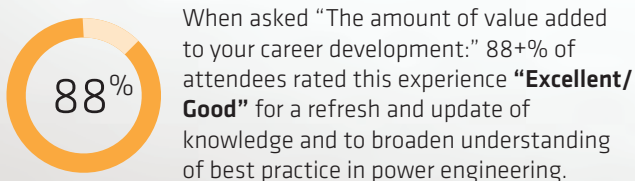
Mount Lofty House is a South Australian conference venue set in the hills, valleys & natural bushland of the Adelaide Hills. Facilities include:

- Serviced Individual Guest Rooms
- Free High-Speed Internet Access in conference areas and rooms
- Stunning regional setting with magnificent views of Adelaide Hills
- Purpose built meeting facilities
- Restaurant which utilises the best produce sourced from both our property and local producers
- Tennis, Volley Ball, Badminton, Bocce, & Swimming Pool
- Close proximity to Adelaide Airport

WHAT DELEGATES HAD TO SAY ABOUT THE 2016 SUMMER SCHOOL

- "The API Summer School is a definite must attend for professionals involved in the power industry. The lectures, tours and syndicate work will definitely help you build your kit bag of tools which you can draw upon as you progress through your career.
- "The two weeks is well worth the effort and the API personnel are able to make it fun. It's like going back to school but this time you're well aware that it is going to lead you on the path to success."
- "Excellent value - will be of great future use and is something I will look back on as a career highlight."
- "This program helped me understand a broad and valuable understanding of the Industry as well as the challenges faced in the future. The skills gained from both presentations and syndicate work will certainly help me bring new ideas to my workplace in order to improve our work practices as well as advance my individual career development."

TESTIMONIAL FEEDBACK & STATISTICS



Overall evaluation; 68+% rated the Summer School **"Excellent"**, with 29+% rating it **"Good Value"** and 100% of delegates responding they are prepared to **recommend** the Program/Summer School to their colleagues/managers.



REGISTRATION & FURTHER INFORMATION

For more information or to register, please contact Kendall Klingaman, API Marketing & Communications Coordinator: kendall.klingaman@api.edu.au.

Technical inquiries may be addressed to API Chief Executive, Mike Griffin: mcgriffin@caloundra.net