



The Australian
Power Institute

2018 SUMMER SCHOOL

SUNDAY 18 FEBRUARY - FRIDAY 2 MARCH, 2018

Theme

Agile - Innovative - Supportive

Journey on the Energy Revolution - An Agile, Innovative Energy Industry Supporting 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
- 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
- Build delegate skills and competencies for businesses to stay relevant and sustainable into the future
- Energise delegates to take the learnings and knowledge gained to make a difference in lead change in their organisation

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 delegates for professional advancement
- Receive certificate of continuing professional development completion
- Advance Personal CV

Venue

Lancemore Hill
Macedon Ranges, Victoria
1030 Kilmore-Lancefield Road
Lancefield VIC 3435
www.lancemore.com.au

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 for Continuing Professional Development (CPD) in accordance with EA CPD guidelines.

Early Bird Registration

Early Bird cut off date:
October 31, 2017
(saving of \$1,000)

Registration close date:
December 19, 2017

"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, renewables, transmission, distribution, consulting, manufacturing, end users) with an 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 backgrounds together to share learnings and experiences in order to develop personal networks for ongoing future career development.

BENEFITS FOR THE DELEGATES

- Gain an understanding of drivers and issues in industry sectors that are relevant to delegate's field of experience.
- Accelerated development and sharing of learning through case studies, field/site visits and a practical industry syndicate project.
- Update on best practice, technology and industry solutions
- 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

- Delegates will enhance their technical and leadership knowledge and overall business performance.
- This program will provide current delegates with essential resources 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.
- Provides new insight to resolve industry issues and provide innovative solutions that will keep companies relevant and sustainable into the future.

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 local universities
- Recognised as a Continuing Professional Development activity (refer to Engineers Australia Guidelines for recognition of CPD hours).
- Provision of a safe environment, particularly during site visits. (Delegates are responsible for providing their personal protective equipment (PPE).
- 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.*

DRAFT SCHEDULE

WEEK ONE	Mon 18 Feb	Tues 19 Feb	Wed 20 Feb	Thur 21 Feb	Fri 22 Feb	Sat 23 Feb
	Electricity Markets Journey to the Future	Supporting 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	Site Tours	Energy Delivery Drivers, Key Issues and Future Evolution	Site Tours
9.30 - 10.30	International & National Trends in Energy Markets & Economics	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		Morning Tea	Morning Tea
10.45 - 11.45	Energy Regulation to Support Finding the Balance between Rules, Prices, Customer Expectations and Network Investment	Energy Retail Future Customer Segments & Offerings	Anticipating & Addressing Security Challenges in an Evolving Power System		Designing Our Networks for High Distributed Energy Resources (DER) Penetration	Site Tours & Free Time
11.45 - 12.45	Australian Energy Market Operator Role in the Journey to the Future	Facilitating the Changing Needs of Customers & the Community - Technical, Commercial & Social	Renewable Technologies - Wind		Reliability & Power Quality Standards & Frameworks	
12.45 - 1.30	Lunch	Lunch	Lunch		Lunch	
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	Syndicate Work	Secondary Systems Fundamentals & Best Practise	

WEEK TWO	Mon 26 Feb	Tues 27 Feb	Wed 28 Feb	Thur 1 Mar	Fri 2 Mar
	Journey to the Future with Energy Storage	Innovation & Agility in Asset Management	Evolution of New Businesses- An Agile, Innovative Industry	Syndicate Presentations Day	Industry Senior Leaders -Outlook on the Journey of the Energy Revolution
7.00 – 8.30	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
8.30 - 9.30	Transmission Storage -ARENA Project	Network Transformation Program - Findings & Future Actions	Future Workforce Skills & Competancies	Syndicate Presentations 1 & 2	Industry Chief Executive Officer Forum
9.30 - 10.30	Energy Storage Fundamentals	Technology & Storage for Voltage Management in Distribution Systems	Innovation Framework & Projects 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	Energy Storage Case to Delay Augmentation	IEC61850 Implementation; A Case Study : Lessons Learned	CIGRE Looking Forward: Innovation and Technical Highlights from recent Paris Session	Syndicate Presentations 3 & 4	Delegate Program Feedback
11.45 - 12.45	Syndicate Work	Moving Beyond the Substation - What Changes are Needed in the Operational Technology Environment?	Syndicate Work	Syndicate Presentations 4 & 5	
12.45 - 1.30	Lunch	Lunch	Lunch	Lunch	Lunch
1.30 – 2.30	Syndicate Work	Impact of Electrical Vehicles and Impact on Networks	Syndicate Work	Syndicate Presentations 6 & 7	Airport Transfers
2.30 – 3.30		Power Transformer Innovative Design & Lifecycle Management		Syndicate Presentations 8	
3.30 - 4.00	Afternoon Break	Afternoon Break	Afternoon Break	Afternoon Break	
4.00 - 5.00	Delegates Voluntary "Special Interest" Session & CIGRE NGN Presentation	Managing Big Data & Application of Data Analytics to Energy Industry	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	€9,900	\$11,000
Principal Member	\$11,000	\$13,200
Industry Member	\$13,200	\$14,300
Non Member	\$14,300	\$15,400

*A discount applies for early bird registrations before 31 October 2017. The closing date for standard registration is 19 December 2017.

ACCOMMODATION - Lancemore Hill Conference Centre - Approx. 50 minutes from Melbourne Tullamarine Airport

Venue Facilities:

- Serviced/Air Conditioned Guest Rooms
- Free High-Speed Internet Access in conference areas and rooms
- Stunning Regional Setting
- Purpose Built Meeting Facilities & Spacious Break Out Rooms
- Tennis, Volleyball, Pool Table, Table Tennis, & Basketball Court
- Bush Walking Trails & Outdoor Swimming Pool
- Airport transfers will be provided to/from venue & local Airport

WHAT DELEGATES HAD TO SAY ABOUT THE 2017 SUMMER SCHOOL

"I thought I knew what my industry did and how our customers thought about us. This was not only idealistic but misinformed. The API summer school reintroduced me to the industry and provided me with an opportunity to make professional alliances that I will leverage off my entire career."

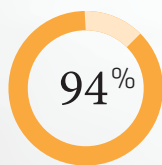
"A holistic approach, networking and work-life balance. These three important things are required by successful in order to succeed in this fast changing industry. If you value these skill sets then API is the perfect venue for you to develop and grow in these areas."

"An unparalleled opportunity to meet, ask, learn, give back and refresh your self and your career direction not only in the technical but in the industry... The intensity equals the benefits."

"Wow, what an amazing opportunity to get current and learn with amazing peers from industry leaders to new starters, well worth the investment."

"Undoubtedly, the most impressive and engaging array of presentations and speakers that I will see during my career, at a fascinating time in the industry."

TESTIMONIAL FEEDBACK & STATISTICS



When asked "The amount of value added to your career development:" 88+% of attendees rated this experience **"Excellent/Good"** for a refresh and update of knowledge and to broaden understanding of best practice in power engineering.

Overall evaluation; 86+% rated the Summer School **"Excellent"**, with 14+% 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

ABOUT THE AUSTRALIAN POWER INSTITUTE

Connects, Collaborates, Contributes

VISION:

Connecting People, Skills and Resources to Power Australia's Energy Future.

VALUE PROPOSITION:

API provides value through maximising collaboration and innovation throughout the energy industry, universities and schools, professional bodies and government in power engineering education, research and training.

PURPOSE:

API's contribution is to ensure a sustainable supply of innovative, agile power engineering professionals equipped with contemporary skills to transform and sustain Australia's energy future through initiatives focused on:

- Provide a sustainable supply of quality power engineering graduates to Energy Industry;
- Facilitate a strong power engineering education platform for undergraduate students and existing industry professionals;
- Coordinate industry and university innovation initiatives & research;
- Support the Technical and Commercial Success of Member Companies in the Energy Sector