Australian
Protection Symposium

Submit by
1st November 2019

Call for Papers

Sydney International Convention Centre

18th - 19th March 2020

www.protectionsymposium.com.au

Australian
Protection Symposium

Overview

The Australian Protection Symposium (APS) is an event dedicated to the presentation of new developments, practical application of methods and technologies and experiences gained in the field of protection, automation and control for modern electrical power generation, transmission and distribution systems. The APS is the ideal forum for discussions and exchange of information and experiences, bringing together utilities, energy companies, manufactures, consultants, service providers, standard committees, universities and research centers.

Now in it's 12th year, the Australian Protection Symposium will again bring together industry leaders, researchers, experts, engineers, practitioners and professionals involved and interested in the electrical protection industry – who are facing similar challenges – allowing them to discuss their views face to face and build close cooperation channels for solving future challenges.

In 2020, the event will be held over two days at **International Convention Centre, Sydney** on the **18th - 19th March, 2020**. The APS is an outstanding opportunity for your organisation to reinforce its significant profile within the electrical protection industry and engage and promote directly to Symposium delegates.

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Why you should present a paper?

Our involvement in the electrical protection field is forever teaching us in practice things that cannot be found in text books and manuals. The experiences gathered through implementing techniques, trying new paths and learning from failures are so valuable that sharing them enhances the entire industry. In fact, not learning from each other's experience and doing it all over again risks repeated problems, wasted time and significant unnecessary costs.

Writing and presenting a paper is an opportunity to share knowledge, practices, processes, technology, experiences and technical expertise of an organization or individual.

It will bring recognition for the company and/or individual as an engineering leader allowing them to express their views and build on their professional development and training by participating in a well-established and specialized event.

At a strategic level, it allows broadening of perspectives, setting of good work practices, opening up of discussions with different point of views for better ideas and creative solutions for any existing challenge. It will be the best opportunity to report on a recent research, technological development and project delivery and lessons learned along the way.

Paper formats

The scope of the conference provides opportunity to discuss new concepts ideas, strategies, justifications, design process and considerations, implementation and project management, techology shift management & implementation through to life cycle management of the assets.

Submittals are possible in two formats:

- Paper presentation
- Power talk powerpoint presentation

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Paper topics

Design, application, advantages and pitfalls of IEC 61850

- Real life case studies of existing installations
- Security implications in digital communications - cyber security
- Isolation techniques for testing
- Multi-vendor integration experiences

Innovation and advancements in Protection schemes

- Wide area protection, communication and control
- Adaptive protection systems
- Protection of smart grids and micro grids
- Network requirements for battery storage and installations
- Rapid Earth Fault Current Limiter (REFCL) installations
- System events, causes and analysis
- Time in protection applications - Time sources

Commissioning and Testing case studies

- Integration of distributed energy resources
- Industry experience of failures and faults
- Battery storage implementation
- Protection Scheme Testing through Network Simulation Modelling
- Operational experience - successes and challenges of testing
- New approaches to reduce commissioning time
- Testing of IEC 61850 based devices and schemes

Non-conventional and conventional sensors

- Redundancy requirements for protection systems using Non-Conventional Instrument Transformers and Merging Units
- Optical CT's
- Saturation effects and its impact on protective relaying
- Transient Behaviour of CTs

Management and business strategies

- Are we using smart relays to their full capability- experiences and insights.
- Developing skills and competencies for next generation protection and control systems (technology, change management, training, social media etc.)
- Paperless Electrical Drawings management
- Data gathering, analysis and management of protection statistics
- Maintenance Management for Protection systems
- Health and safety approaches and culture

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Power Talk

Sharing of experiences and lessons learned have proven to be of the highest interest and benefit to all involved in the industry. Great lessons are learned from failures. Unfortunate events causing mishaps often provide the most valuable experience with lessons more worthwhile than any success story.

Power talks are independent from paper presentations to facilitate sharing, these talks will not require written format and powerpoint presetntation will suffice. Talks can range from local or overseas experiences, where a project or implementation is shared as an invaluable lesson.

Target audience

The target audience for this event are engineers, technicians, managers, field staff and supervisors, asset owners & managers, planners, standard writers, system analysts, students and professionals from electrical utilities, consultants, service companies, industrial and mining industries, protection system designers and manufacturers, Universities and others employed in planning, design, standardisation, construction, commissioning, security, maintenance and assessment of electrical protection systems.

Important dates

Abstract submission:	**1st November 2019**
Acceptance notification:	**15th November 2019**
Full Papers submission:	**1st February 2020**
Power Point Presentation:	**1st March 2020**

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How to submit

Please submit your **Paper Abstract** or **Power Talk Synopsis** of approximately 250 words via email to papers@protectionsymposium.com.au

Please include the following information:

- Paper title
- Authors' and Co-Author's name
- Authors' and Co-Author's organisation and position
- Country
- Email address of the main contact/author

Contact

For enquiries and further paper submission details or interest in the Power talk session, please do not hesitate to contact us:

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