

Spring 2017 Industry Event -

PROTECTION & CONTROL

4th Annual P&C Conference

March 7 - 8, 2017 • Indian Wells, CA, USA

Conference Overview

The 4th Annual Protection and Control Conference will focus on several areas of concern for power utilities including: system performance, design and maintenance, digital relays and settings, information databases, integration of DGs and microgrids, new technologies and generation related topics.

Protective relays and their associated systems are devices deployed throughout the power system for the purpose of sensing abnormal electrical or system components operating conditions and isolating, usually in conjunction with circuit breakers, any abnormal conditions resulting from natural events, physical accidents, equipment failure or operation due to human error. A reliable, selective and high-speed isolation is necessary to mitigate damage to vital and expensive system equipment, reduce the risk of serious danger to humans and to maintain power system stability and acceptable power quality. These stringent requirements, with high potential consequences, make it imperative that protection systems be designed and maintained to perform their functions with a very high degree of dependability and security.

Conference Goals

1. Learn from each other;
2. Provide knowledge and procedures necessary to recognize and manage challenges;
3. Identify areas where additional research may improve our knowledge of potential failure modes;
4. Identify ways to ensure that the knowledge of the past is available for the future, and previous mistakes are not repeated;
5. The continuation of global communication, coordination, collaboration and advancement.

Topics for Discussion:

Optimizing Protection System Design, Maintenance and Replacement Strategies

- Best practices in protection system design reflecting the brisk evolution in digital protection relay capabilities, the availability of rapid communication links and opportunities for networking and station automation.

Potential Use of Digital Relay Capabilities for "Smart Grid" Applications

- The use of digital relay enhanced voltage and current waveform monitoring for detecting the irregular performance of power system elements

Improved Effectiveness of DG and Micro-grid Integration

- Protection and control technologies that would enable increased penetration levels of renewable energy generation without adverse impacts on distribution and/or transmission system operations

New Protection, Control and Communication Systems Technologies

- New emerging technologies that could be used for enhancing power system resiliency, security, levels of automation, electric supply power quality and for reducing overall operating costs.

Power Generators

- The latest in utility practices and design of protection and control systems for large electric power generators and their auxiliary systems.

Who Should Attend

- Protection & Control Managers
- Transmission Engineers
- Asset Managers
- Maintenance Supervisors
- Engineering Supervisors
- Project Managers
- Consultants
- Contractors
- Service Providers
- Vendors
- Equipment Manufacturers

Concurrent Sessions:



For more information, visit www.ceati.com/Spring2017

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MARCH 7th DAY 1- P&C PROGRAM

12:00 - 1:15 Networking Lunch - Exhibition Hall

1:15 **Welcome & Introduction**

*Jerry Lepka,
CEATI International*

1:30 **Improvements and Evolution for Future Grid**

*Jonathan Sykes (Keynote)
PG&E*

SESSION 1: SUBSTATION AUTOMATION AND IEC 61850 APPLICATIONS

2:00 **Setting The Stage for a Successful IEC 61850 Deployment**

*Dustin Tessier
TESCO*

2:30 **Save Copper and Modernize Your Substation With SEL TiDL Technology**

*Ali Kazemi,
SEL*

3:00 - 3:30 Networking Break - Exhibition Hall

3:30 **Substation Automation Mini-tutorial – Requirements, Tools, Application Trends, Experiences**

*Mansour Jalali,
Kinectrics*

4:20 **Question Period**

All Presenters

5:00 - 7:00 Networking Reception - Exhibition Hall



Agenda is subject to change without notice

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MARCH 8th DAY 2- P&C PROGRAM

7:00 - 8:00 Networking Breakfast - Exhibition Hall

SESSION 2: DISTRIBUTED GENERATION AND MICROGRIDS

8:00	Analysis of 1100MWs of Solar Loss During a 500kV Transmission Fault	<i>Rich Bauer, NERC</i>
8:30	Loss of Synchronous Generation, Impacts and Mitigation	<i>Charlie Vartanian & Rob Hellested, Mitsubishi Electric</i>
9:00	Assessing the Impacts of Distributed Energy Resources (DER) Penetration Level on the Distribution Protection Scheme	<i>Mansour Jalali, Kinectrics</i>
9:30	Model-Based Testing of Protection and Control in Distribution Systems with High DER Penetration	<i>Ravi Venugopal, Opal-RT Technologies</i>

10:00 - 10:30 Networking Break - Exhibition Hall

SESSION 3A: GENERATION RELATED TOPICS

10:30	Generator Distance Backup Protection <i>Pat Keller, U.S. Army Corps of Engineers</i>
11:00	Addressing Localized Saturation on Generator Neutral Current Transformers <i>James DeHaan & Ryan Hogg, USBR</i>
11:30	Generator Special Field Testing – Considerations for Protection Systems <i>Kirk Chen, U.S. Army Corps of Engineers</i>

SESSION 3B: MANAGEMENT OF PROTECTION ASSETS FOR FUTURE GRID

10:30	Modern Applications of Digital Relays in Distribution Systems <i>Ali Kazemi, SEL</i>
11:00	Upgrade of Network Protector Relays to Avoid False Trips Due to Excess DER Power <i>Shahab Mehraeen, Louisiana State University</i>
11:30	Challenges to the Future Grid and Relay Asset Management Strategies to Meet those Challenges <i>Scott Hayes & Jonathan Sykes, PG&E</i>

12:00 - 1:30 Networking Lunch - Exhibition Hall

SESSION 4: INTRODUCTION OF NEW AND EMERGING PROTECTION TECHNOLOGIES

1:30	Improve the Performance of Protection Schemes Using a Wireless Protection Sensor System	<i>Kei Hao, SEL</i>
2:00	Catching Falling Conductors in Midair – Detecting and Tripping Broken Distribution Circuit Conductors at Protection Speeds	<i>Ali Kazemi, SEL Karl Iliev, SDG&E</i>
2:30	PRC 19-2 & PRC 24-2: Coordination of Generator Voltage Regulating Controls & Protection/ Frequency and Voltage Protective Relay Settings	<i>Ali Moshref, PhD BBA Engineering Ltd.</i>

3:00 - 3:30 Networking Break - Exhibition Hall

3:30	SEMINAR on PRC-019/024-2 cont'd	<i>Ali Moshref, PhD BBA Engineering Ltd.</i>
5:00	Closing Remarks	<i>Jerry Lepka, CEATI International</i>

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Join Us in Indian Wells!

Spring 2017 Industry Conference

3 Tracks - 1 Venue

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Hydropower

Protection & Control
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You may also register online at www.ceati.com/Spring2017

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Registration Fees

Register by January 12, 2017 and save \$50.

- \$955 USD Standard Registration
- \$735 USD CEATI Participant Registration
- \$735 USD Speaker
- \$475 USD Student

Exhibitor options available online!

Important Information

Registration fees include proceedings package, breakfast, breaks, lunches and reception where indicated on the schedule.

- Please check if you wish to be contacted about allergies or other dietary requirements.

Prices are in USD. Charges will appear as 'CEATI International Inc' and are subject to applicable taxes and fees.

All cancellations received at least 30 days prior to event will be subject to a \$200 processing fee. There will be no refunds granted after this date. Delegate substitution is permitted at no extra cost.

Please note that all names completing this form will be added to CEATI's mailing list. If you do not wish to be included in this electronic outreach, please click the "unsubscribe" button in the email to remove yourself.

Completed registration forms can also be sent by email to events@ceati.com or by fax to (514) 904-5038

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All conference guests are eligible for a discounted rate of \$229 (USD) subject to availability. Simply mention "CEATI International" when reserving. Reservations must be made prior to January 12, 2017.