

Spring 2017 Industry Event - Stations

Innovations in Developing Stations of the Future

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

Conference Overview

Continuing to build on the success of the 2016 conference, CEATI's Station Equipment Asset Management Interest Group (SEAM) participants want to further explore areas of innovation in topics related to development for future stations and ongoing maintenance.

Technological developments in information technology, automation and design improvements raise exciting possibilities and opportunities for a reconfigured electrical grid, enabling more effective monitoring and maintenance techniques, while ensuring reliability of supply, sustainability of operations and affordability of electric service for customers. New station designs must now consider interoperability and monitoring capability to fully utilize these new technologies and associated telecommunications, information technology, security systems and infrastructure to enable smarter, more efficient and cost effective operation of station facilities.

Conference Goals

1. Learn from each other;
2. Provide information on innovative techniques, technologies, materials and designs being employed in development, maintenance and operation of future utility installations;
3. Identify opportunities for use of smart systems and methods to improve grid resiliency, meet stakeholder expectations and manage assets effectively;
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:

The Stations interest group promotes and facilitates communication and collaboration on topics associated with optimizing life cycle costs related to electrical utility station equipment and apparatus. Participants are interested in technological advancements and trends in station design, apparatus, construction and maintenance techniques, as well as the changing requirements of stakeholders, regulators, and customers associated with electric utilities. This conference will provide an open forum for information exchange and deliberation, with a focus on technical presentations, case studies, and the sharing of ideas and experiences for the benefit of the industry.

Topics include:

- Futuristic View
- Security
- Regulatory & Standards
- Station Materials, Design and Techniques
- Environmental Conditions
- Evolution of Station Equipment

Who Should Attend

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

Concurrent Sessions:



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

MARCH 7th DAY 1 - STATIONS PROGRAM

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

SESSION 1: KEYNOTE / FUTURE VIEW

1:15 - 1:30	Welcome & Introduction	<i>Ken Kopechanski, CEATI International Inc.</i>
1:30 - 2:00	Independent Electricity System Operator (IESO) Strategic Plan 2016-2020	<i>Tam Wagner, Independent Electricity System Operator (IESO)</i>

SESSION 2: ENVIRONMENTAL CONDITIONS

2:00 - 2:30	Outage Cancelled, No Need to Re-Gasket - Latest Solutions in Online Leak Sealing of HV Apparatus	<i>Liisa Colby, The Colt Group</i>
2:30 - 3:00	Canadian Research on Geomagnetic Hazards to Power Systems	<i>David Boteler, Natural Resources Canada</i>

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

SESSION 3: EVOLUTION OF STATION EQUIPMENT

3:30 - 3:55	A Novel Built-In Insulation Condition Monitoring System Enabled by Dry Type Technologies	<i>Robert Middleton, RHM International</i>
3:55 - 4:25	Future Trends in Circuit Breaker Development and the Influence on Substation Layout and Environmental Aspects	<i>Helmut Heiermeier, ABB</i>
4:25 - 4:55	Grid-Connected Energy Storage Overview	<i>Steven Emiling, Mitsubishi Electric Power Products</i>
4:55 - 5:15	Question Period	<i>Robert Middleton, RHM International Helmut Heiermeier, ABB Steven Emiling, Mitsubishi</i>

5:15 - 7:00 Networking Reception - Exhibition Hall

MARCH 8th DAY 2 - STATIONS PROGRAM

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

SESSION 4: SECURITY, REGULATORY & STANDARDS

8:00 - 8:35	Digital Security & Stations: Can You Put Your Data in the Cloud?	<i>Kenneth Elkinson, Doble Engineering</i>
8:35 - 9:10	Physical Security - Innovative Ways to Increase Substation Resiliency	<i>Petter Fiskerud & Pat Ervin, ABB</i>
9:10 - 9:30	Continuum of Physical Security Asset Hardening: Threat Assessment to Design, Implementation & Use	<i>Scott Nowicki, Quantum Spatial Inc.</i>
9:30 - 10:00	Panel Session	<i>Kenneth Elkinson, Doble Engineering Petter Fiskerud & Pat Ervin, ABB Scott Nowicki, Quantum Spatial Inc.</i>

Agenda is subject to change without notice

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MARCH 8th DAY 2 - STATIONS PROGRAM

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

SESSION 5: ASSET MANAGEMENT INNOVATIONS FOR FUTURE SUBSTATIONS

10:30 - 10:50	Developing Degradation Curves and Estimating Relationship Between Condition and “Effective Age” for Station Transformers and Circuit Breakers	<i>Yury Tsimberg & Karim Abdel-Hadi, Kinectrics & Manitoba Hydro</i>
10:50 - 11:10	Best Practices for Asset Condition Assessment of Stations’ Infrastructure	<i>Thor Hjartarson, METSCO Energy Solutions</i>
11:10 - 11:30	Estimating Capital and O&M Costs Through the Application of a Probabilistic Approach for Economic End-of-Life Analysis	<i>Karim Abdel-Hadi, Manitoba Hydro</i>
11:30 - 12:00	Panel Session	<i>Yury Tsimberg, Kinectrics Karim Abdel-Hadi, Manitoba Hydro Thor Hjartarson, METSCO Energy Solutions</i>

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

SESSION 6: STATION MATERIALS, DESIGN & TECHNIQUES

1:30 - 2:00	Asset Management of Electric Power Distribution Cables Using the NRC Depolarization Current Measurements	<i>Refat Atef Ghunem & Bill Bennett, National Research Council Canada & Hydro Ottawa Limited</i>
2:00 - 2:20	PG&E Substation Asset Condition Monitoring (SACM) System for Critical Assets	<i>Brian Sparling & Tom Rak, Dynamic Ratings & PG&E</i>
2:20 - 2:40	Substation Design & Maintenance Using Advanced Reality Modeling Techniques	<i>John Zwerlein, Bentley Systems</i>
2:40 - 3:00	Categorizing Transformer Faults via Dissolved Gas Analysis	<i>Randy Cox, GE Grid Solutions</i>

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

3:30 - 3:50	Self-Diagnostic Assets: What They Are Really Telling You	<i>Kenneth Elkinson, Doble Engineering</i>
3:50 - 4:10	Advancements in Substation Equipment Asset Management and Inspection Using Remote Sensing and UAS Technology	<i>Scott Nowicki, Quantum Spatial Inc.</i>
4:10 - 4:40	Please Build this Substation in My Back Yard	<i>Carl Tully & Jay Keeling, NBBJ & POWER Engineers, Inc.</i>
4:40 - 5:00	Panel Session	<i>All Presenters</i>
5:00 - 5:10	Concluding Remarks	<i>Ken Kopechanski, CEATI International Inc.</i>

Backup Presentations

Best Practices for Strategic Replacement of Substation Assets

*Jigdel Kuyee,
METSCO Energy Solutions*

The Case for Eliminating Animal-Caused Outages in Electric Substations of the Future

*Marty Niles,
Greenjacket Inc.*



Join Us in Indian Wells!

Spring 2017 Industry Conference

3 Tracks - 1 Venue

March 7-8, 2017 • Indian Wells, CA

Hydropower

Protection & Control
Stations

Registration Form

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

Your Information

Name

Title

Organization

Street Address

City, Province/State

Country

Postal/Zip Code

E-mail

Phone

Fax

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.

Payment Options

- Visa 
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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.