

Spring 2016 Industry Event - HYDROPOWER

Life Extension of Hydropower Assets and Preparing for the Future

March 8 - 9, 2016 • Indian Wells, CA, USA

Conference Overview

CEATI's 2016 hydropower conference will bring together hydro experts to discuss key challenges facing the industry; strategies for the life extension of hydro assets and continued performance of dams and powerplants.

The conference will offer hydro professionals a unique opportunity to deliberate on both short and long term reliability issues, and best practices in keeping projects operational, remediation and rehabilitation as well as succession planning and training strategies. Focus will be on the optimum and efficient operation of hydro facilities to meet the needs of all stakeholders while considering public and environmental interests.

Conference Topics:

- Enhancing and extending reliability
- Succession planning and training
- Safety
- Environment
- New technology

Equipment Types:

- Dams
- Powerhouses
- Power train
- Flow control equipment
- Alarms and remote operations

Who Should Attend?

- Engineering Managers
- Dam Safety Managers
- Asset Managers
- Plant Managers
- Water Managers
- Dam Safety Regulators
- Civil/Structural/Mechanical /Electrical Engineers
- Maintenance Supervisors
- Operations Supervisors
- System Planners/Operators
- Manufacturers/Suppliers Consultants
- Project Managers
- Service Contractors

Concurrent Sessions:



Spring 2016 Industry Event - CABLES
3 Tracks - 1 Venue
Mitigation Techniques on Corrosion and Oil Leaks and Advanced Diagnostic Techniques for Underground Transmission Cable Systems
March 8 - 9, 2016 - Indian Wells, CA, USA



Spring 2016 Industry Event - STATIONS
3 Tracks - 1 Venue
Strategic Planning for Development of Stations of the Future
March 8 - 9, 2016 - Indian Wells, CA, USA

Conference Goals

1. Learn from each other;
2. Provide knowledge and procedures necessary to recognize and manage the challenges associated with operating dams and powerhouses;
3. Identify areas where additional research may improve our knowledge of potential failure modes (via a system-based evaluation and analysis) and identify ways to prevent or mitigate their development;
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.

MARCH 8th Day 1 - HYDRO PROGRAM

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

Session Chairs - *Greg Lewis, Duke Energy and Toby Brewer, Tacoma Power*

1:15	Welcome & Introduction	<i>Chris Hayes, Lizzie Smith CEATI International</i>
1:30	PacifiCorp Spillway Gate Inspection Program - Findings and Repairs	<i>Roger Raeburn, PacifiCorp</i>
2:00	Spillway Systems Reliability Project	<i>Greg Baecher, University of Maryland</i>
2:30	Control System Enhancements - Improving Plant Visibility and Asset Diagnostics	<i>Will Pope, Sacramento Municipal Utility District</i>

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

3:30	Expanding Hydro's Contribution to Grid Stability	<i>Roger Clarke-Johnson, American Governor</i>
4:00	U.S. Department of Energy New Hydropower Technologies	<i>Daniel Rabon, U.S. Department of Energy</i>
4:30	PANEL DISCUSSION	

6:00 - 7:30 Networking Reception - Exhibition Hall

MARCH 9th Day 2 - HYDRO PROGRAM

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

Track 1 - Life Extension Techniques and Operational Reliability of Civil Infrastructure

Session Chairs - *Luyin Zhu, Pacific Gas & Electric
Carolyn Koroa, Tennessee Valley
Authority*

8:00 **Rehabilitation of Two Major Buttress Dams in Northern Sweden**
Carl-Oscar Nilsson, E.ON

8:30 **Old Dams, New Faults - Now What?**
John Stoessel, Southern California Edison

Track 2 - Life Extension Techniques and Operational Reliability of Mechanical/Electrical Infrastructure

Session Chairs - *Tyler Nice, Eugene Water and Electric
Board & Greg Judd, Ontario Power
Generation*

8:00 **A New Approach to Partial Discharges Monitoring in Generators: Converting Real Time Data Into Useful and Intuitive Information**
Marco Tozzi, Camlin Power

8:30 **Hydro Generator Brushgear Design, Maintenance and Design Enhancements**
*Kevin Tieman, Mersen Canada
Doug Franklin, CIGOL*

Agenda is subject to change without notice - 22/02/2016

Tel: 1.514.866.5377 events@ceati.com www.ceati.com

MARCH 9th Day 2- HYDRO PROGRAM

Track 1 - Life Extension Techniques and Operational Reliability of Civil Infrastructure

9:00 **Third Time's the Charm: Fitness-for-Service Assessment of Pitting Damage in a Penstock**
David Osuna, Quest Integrity

9:30 **Structural Assessment of a Hydroelectric Penstock - Methodology and Case Study**
Dave Ritzman, PG&E
Richard Mattson, SIA
Arnie Nervik, Nervik Consulting

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

10:30 **Penstock Inspection and Assessment Guide**
Charlie Ahlgren, MesaCardno
Chris Hayes, CEATI International

11:00 **Fitness-for-Service Assessment of a Generator Shaft: How Existing Components Can Be Evaluated for Future Use in Unit Modernization**
Eric Scheibler, Quest Integrity
Matt Clemmer, Tennessee Valley Authority

11:30 **PANEL DISCUSSION**

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

Session Chairs - *Matt Frerking, Ameren*
Anders Isander, Energiforsk

1:30 **Improving Debris Management at Lake Lynn Dam**
Andy Datsko, MidAtlantic Hydro

2:00 **Cushman Float Drum Gate Rehabilitation Project**
Toby Brewer, Tacoma Power

2:30 **Owners Dam Safety Training: Best Practices, Lessons Learned, and Future Areas for Development**
Sarah Kulpa, HDR

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

3:30 **NHA's OpEx Program - Gaining Insight to Excellence Through Information Sharing**
David Zayas, NHA

4:00 **PANEL DISCUSSION**

4:30 **Closing Remarks**

Track 2 - Life Extension Techniques and Operational Reliability of Mechanical/Electrical Infrastructure

9:00 **Testing of Hydroelectric Generators**
Ben Lavrinoff, Kinectrics

9:30 **Mitigating the Costs of Equipment Failures in Modern Hydroelectric Control Systems**
Scott Ginesin, American Governor

10:30 **Oil and Water Don't Mix - The Latest Solutions for Online Leak Repair of Transformers at Hydro Power Plants**
Liisa Colby, The Colt Group

11:00 **A Device for Safe and Accurate Air Flow Measurement in Hydro-Generators**
Mourad Heniche, GE Renewable Energy

11:30 **PANEL DISCUSSION**

Session Chair - *Oral Burry, Nalcor Energy Churchill Falls*
Alastair Wilson, CEATI International

1:30 **CRFaRRE - Review of a Large-scale Research Consortium on Runner Manufacturing and Reliability**
Alexandre Trudel, GE Renewable Energy

2:00 **Air Gap Monitoring - Key Element to Avoid Unnecessary and Costly Repairs**
Andre Tetreault, Vibrosystem

2:30 **Flow Comparison Test at GM Shrum Powerplant**
John Taylor, Allium Hydrotech

3:30 **Understanding Operating Mode Effect on Turbine Life**
Christine Monette, Andritz Hydro

4:00 **PANEL DISCUSSION**

4:30 **Closing Remarks**

Agenda is subject to change without notice - 22/02/2016

Tel: 1.514.866.5377 events@ceati.com www.ceati.com

Thank You to our Sponsors!



Spring 2016 Industry Event

March 8 - 9, 2016 • Indian Wells, CA, USA

HYDROPOWER

CABLES

STATIONS

The CEATI Hydropower, Stations and Cables Programs bring together over 90 of the world's leading organizations:



March 7-8, 2016: The Dam Safety Interest Group (DSIG) Meeting

Civil/Dam Safety Program Managers and Chief Dam Safety Engineers from over 60+ dam owners and hydropower utilities will discuss hot topics, technical issues, and model safety program training & risk management. FERC D2SI's Director, Division of Dam Safety and Inspection will also be present to fully brief their licensees, in addition to responding/discussing any questions. The CEATI DSIG work program will also be reviewed, including benchmarks, surveys, guidance documents, training tools, and future workshops.

March 10-11, 2016: The Hydraulic Plant Life Interest Group (HPLIG) Meeting

Engineering, Plant and Asset Managers from over 60+ hydropower utilities will convene to discuss current issues, technical challenges, condition assessment, and asset management techniques. Personnel safety, alarms management, remote operations as well as training will also be areas of focus. Recognized as the industry's largest and foremost hydropower utility users group, The CEATI HPLIG work program will also be reviewed, including benchmarks, surveys, guidance documents, training tools, and future workshops.

Spring 2016 Industry Event

March 8 - 9, 2016 • Indian Wells, CA, USA

HYDROPOWER

CABLES

STATIONS

Registration Form

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

Your Information

Name	<input type="text"/>
Title	<input type="text"/>
Organization	<input type="text"/>
Street Address	<input type="text"/>
City, Province/State	<input type="text"/>
Country	<input type="text"/>
Postal/Zip Code	<input type="text"/>
E-mail	<input type="text"/>
Phone	<input type="text"/>
Fax	<input type="text"/>

Payment Options

Visa  Mastercard 

Card No.	<input type="text"/>
Expiry Date	<input type="text"/> / <input type="text"/>
Signature	<input type="text"/>
Cardholder	<input type="text"/>

Registration Fees

Register by December 18, 2015 and save \$50.

- \$945 USD Standard Registration
- \$725 USD CEATI Participant Registration
- \$725 USD Speaker
- \$475 USD Student

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

Hyatt Regency Indian Wells
44600 Indian Wells Lane
Indian Wells, CA 92210
+1.760.341.1000



All conference guests are eligible for a discounted rate of \$215 (USD) subject to availability. Simply mention "CEATI International" when reserving. Reservations must be made prior to January 12, 2016.