

10th Annual

Grounding & Lightning Conference

October 2 - 3, 2018 • Anaheim, CA



In collaboration with



Grounding & Lightning Day 1

October 2, 2018

7:30-8:20 Registration & Breakfast

8:20-8:30 **Welcome & Introduction** *John Williamson, CEATI International*

Session 1: *Lightning Protection & Performance - Catalina B & C*

8:30-9:00 **Organizing the Seven Best Practices for Lightning Protection of Transmission Lines** *William A. Chisholm, METSCO*

9:00-9:30 **Review and Analysis of Transmission Line Lightning Protection at ATC** *Bryan Beske, ATC*

9:30-10:00 **Performance & Revenue Enhancements Utilizing Line Surge Arresters** *Ryan Freeman, Hubbell Power Systems Inc.*

10:00-10:30 Break

10:30-11:00 **Arrester Surface Temperature Measurement Considerations** *Jonathan Woodworth, ArresterWorks*

11:00-11:30 **Precision Assessment of Power Line Response to Lightning** *Kenneth Cummins, University of Arizona*

11:30-12:00 **Session Questions & Discussion**

12:00-1:15 Lunch

Session 2: *Copper Theft - Catalina B & C*

1:15-1:45 **CuTS Technology for Monitoring Grounding Infrastructure - A Customer's Experience** *Simon Jarvis & Paul Mumford, Cresatech (UK)*

1:45-2:15 **Mitigating Copper Theft with Stainless Steel** *Jean Paul Combeau, Electricos International (Columbia)*

2:15-2:45 **Copper Theft - Conductor Considerations** *Jeff Jordan, Copperweld*

2:45-3:00 **Session Questions & Discussion**

3:00-3:30 Break

Session 3: *Personal Protective Grounding - Catalina B & C*

3:30-4:00 **Grounding Methods when Working on De-Energized T&D Lines** *Aram Khalil-Pour, FortisBC & Scott Nosal, Bonneville Power Administration*

4:00-4:30 **Zero Gradient Grounding Plate** *Joe Szwelns & Joe Andreyo, Cleveland/Price Inc.*

4:30-5:00 **Safety Grounding - Where is the Big Picture?** *Keith Wallace, Safearth (Australia)*

5:00-5:15 **Session Questions & Discussion**

6:00-7:30 Reception

Agenda is subject to change without notice.

Grounding & Lightning Day 2

October 3, 2018

7:30-8:15 Breakfast

Session 4: Transmission & Distribution Grounding

4A: Transmission Grounding - Catalina B

Chair: Jon Martin, Pacific Gas and Electric

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| 8:15 | Soil Resistivity Testing
<i>Emanuel Petrache, Kinectrics</i> |
| 8:45 | Lessons Learned from a Shield Wire Failure on a 60 kV River-Crossing Span
<i>Jahangir Khan, BC Hydro</i> |
| 9:15 | Testing and Modeling Grounding Systems for Geomagnetic Data
<i>John Williamson, CEATI International</i> |
| 9:45 | Session Questions & Discussion |

4B: Distribution Grounding - Catalina C

Chair: Aram Khalil-Pour, Fortis BC

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|------|---|
| 8:15 | IEEE 1695 Stray and Contact Voltage Working Group Update
<i>Matthew Norwalk, Southern California Edison</i> |
| 8:45 | ConduDisc: The Corrosion Proof Grounding Plate
<i>Kris Cox & Todd Sirola, SAE Inc</i> |
| 9:15 | Best Practices in Lightning Protection of Distribution Systems
<i>Jonathan Woodworth, ArresterWorks</i> |
| 9:45 | Session Questions & Discussion |

10:00-10:30 Break

Session 5: Feature Topics: Recently Completed Work within CIGRE Committees - Catalina B & C

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|-------------------------|--|
| 10:30-11:30 | Ground Potential Rise at Overhead AC Transmission Line Structures during Power Frequency Faults: CIGRE Technical Brochure TB 694
<i>William A. Chisholm & George Watt, CIGRE Working Group B2.56</i> |
| 11:30-12:00 | Quantified Risk Analysis in Managing Power System Grounding Shock Risk - CIGRE B3:35 W/G Recommendations and Australian Experience
<i>Bill Carman, Bill Carman Consulting (Australia)</i> |
| 12:00-1:00 Lunch | |
| 1:00-1:45 | Session Questions & Discussion |

Session 6: Substation Grounding - Catalina B & C

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|------------------------|---|
| 1:45-2:15 | Substation Grounding Design Challenges and Lessons Learned
<i>Eric Swenson, Ulteig Engineers Inc.</i> |
| 2:15-2:45 | Sea Effects on Grounding Systems - an Analytical and Numerical Study
<i>Roberto Andolfato & Daniele Cuccarollo, SINT Ingegneria</i> |
| 2:45-3:15 Break | |
| 3:15-3:45 | Air-Core Reactors - Magnetic Clearances, Electrical Connections, and Grounding of Supports
<i>David Caverly, Trench</i> |
| 3:45-4:15 | Grounding System Management through Clearer Understanding and Effective Testing
<i>Stephen Palmer, Safearth (Australia)</i> |
| 4:15-4:45 | Challenges with Inheriting Old Substations Built to Old Design Standards
<i>Andrea Wood, POWER Engineers</i> |
| 4:45-5:00 | Session Questions & Discussion |
| 5:00-5:15 | Closing Remarks
<i>John Williamson, CEATI International</i> |

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Registration Form

You can also register online at www.ceati.com/GL2018

Your Information

Name

Title

Organization

Street Address

City, Province, State

Country


Postal/Zip Code


E-mail

Phone

Fax

Payment Information

Visa 

Mastercard 

Card No.

Expiry Date /

Signature

Cardholder

Delta Hotels by Marriott
Anaheim Garden Grove
12021 Harbor Blvd,
Garden Grove, CA 92840
+1.714.867.5555



Registration Fees & Discounts

Register by June 29th, 2018 and save \$50

- \$965 USD Standard Registration
- \$695 USD CEATI Participant Registration
- \$695 USD Speakers

*GLIG participating organizations may be eligible for a complimentary registration - contact your Program Coordinator for more information

Exhibit at the Grounding & Lightning Conference!

- \$3500 USD Silver Sponsor Booth (2 passes)
- \$2700 USD Booth Registration (2 passes)
- \$1500 USD Conference Sponsor
- \$695 USD Additional Exhibitor Passes
Quantity: _____

Please indicate your top 3 booth choices below:

For Exhibitors: All cancellations received 60 days prior to the event will be subject to a processing fee of 25% of the total amount. There will be no refunds granted after this date. Delegate substitution is permitted at no extra cost. Exhibitor registration and additional conference passes include proceedings package, access to the presentation room, breakfast, breaks, lunches, and reception where indicated on the schedule.

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 60 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 registering for the event will be added to CEATI's mailing list. If you do not wish to be included in this electronic outreach, please click on the 'unsubscribe' button in the email to remove yourself. In the spirit of industry networking, your email may be shared with other conference participants. If you do not wish to have your email shared, please contact us at events@ceati.com. By attending, you acknowledge that there may be photographs or videos taken of you during this event, and you consent to the use of these photographs or videos in future CEATI communications.

All conference guests are eligible for a preferred rate of \$154 USD a night subject to availability. To receive this rate, please mention the special convention rate for the CEATI International conference. Preferred rate only available until August 23, 2018.