



International Conference on Overhead Lines

Design, Construction, Inspection & Maintenance

March 29 – April 1, 2010 Fort Collins, Colorado USA

CONFERENCE AGENDA

Sunday, March 28, 2010

6:00 am **SKI TRIP TO WINTERPARK** (*depart Marriott from lobby at 6:15 am*)
Reservations Required!!

7:00 pm – 8:00 pm **PRE-REGISTRATION** (*near the elevators at the Marriott*)

Monday, March 29, 2010

7:00 am – 8:30 am **REGISTRATION** – Preconvention Area outside Ballroom, Fort Collins, Marriott

7:30 am – 8:15 am **SPEAKER'S BREAKFAST**
Breakfast for Conference Speakers and Moderators

8:30 am – 9:30 am **WELCOME, INTRODUCTIONS AND ANNOUNCEMENTS** – Salons A-D
“The State of the Industry”
Andy Stewart, President of EDM International, Inc.

***** Technical Presentation Times Include 5-Minute Discussion/Q&A *****

SESSION A: Case Studies in Power Delivery – Part I

9:30 am – 9:55 am **A Case Study Discussing Challenges of Relocating a High-Profile Extra-High Voltage 500 kV Transmission Line (Considering a Major Arizona River and a Critical Construction Schedule)**
Elijah Lubandi, Salt River Project

9:55 am – 10:20 am **Geotechnical Concerns - Foundation Selection and Design in SCE Devers-Palo Verde No. 2 Transmission Line Project Crossing Varied Geologic Provinces of the Mojave Desert**
Robert Ellis and Richard Escandon, Kleinfelder

10:20 am – 10:40 am **BREAK**

SESSION B: Case Studies in Power Delivery – Part I (*continued*)

10:40 am – 11:05 am **Using Helicopters for Environmentally Responsible Transmission Construction**
Tom McShane, Air2 and Jim Anderson, Erickson Air-CRANE

11:05 am – 11:30 am **Foundation Design Innovation Helps Save Time & Money on Fast-Track 345 KV Transmission Line Project**
Don Cannon, Burns & McDonnell

11:30 am – 11:55 am **69-mile Middletown/Norwalk – Strengthening the Transmission Backbone in Southwest Connecticut**
Anne Bartosewicz, Northeast Utilities

12:00 noon – 1:00 pm **LUNCH** – Salons E-H

SESSION C: Environmental Considerations for Power Delivery

- 1:00 pm – 1:25 pm **The Implementation and Use of an Avian Protection Plan to Reduce Bird Collisions and Electrocutions on the Kenai Peninsula, Alaska**
Elizabeth Jozwiak, Fish & Wildlife Service & Don Smith, Homer Electric Association
- 1:25 pm – 1:50 pm **Estimating Raptor Electrocutation Rates and Interpreting Mortality Data**
Bob Lehman, U.S. Geological Survey (retired)
- 1:50 pm – 2:15 pm **Avian Issues and the Transmission Grid – Reliability and Regulatory Responsibilities**
Karl Myers, Tri-State G&T
- 2:15 pm – 2:40 pm **Island Jumping: Power Poles Serving the Biotic Community**
Jan Roth, Sundance Research Institute & Museum

SESSION D: Innovations in Vegetation Management

- 2:40 pm – 3:05 pm **Growing Concerns: Vegetation Inspection – Innovative Technical Advancements Reduce Time & Money to Meet NERC Regulations Increasing ROI over Traditional Methods of Inspection**
Cameron Shankland, GeoDigital
- 3:05 pm – 3:30 pm **Using an Integrated Vegetation Management Platform to Create Technology-based Solutions to Vegetation Management, Line Maintenance and Worker Safety: A Case Study**
Adam Rousselle, Utility Risk Management Corporation
- 3:30 pm – 3:45 pm **BREAK**

SESSION E: Conductor & Insulator Technology – Part I

- 3:45 pm – 4:10 pm **Insulators 101: The History, Application, Installation and Inspection of Porcelain, Glass and Non-Ceramic Insulators**
Andy Schwalm, Victor Insulators
- 4:10 pm – 4:25 pm **Video: Ballistics Test Comparing HTLS vs. Conventional Conductor Design**
Ross Clark, Western Area Power Administration
- 4:25 pm – 4:50 pm **Consider Economic and Environmental Cost of Losses When Selecting Conductor**
Donald Douglas, CTC Cable Corporation
- 4:50 pm – 5:15 pm **Insulator Contamination Monitoring in the Gulf Coast Region**
Fabio Bologna, Electric Power Research Institute
- 5:30 pm – 7:30 pm **ICEBREAKER – hosted by EDM International, Inc. – Bring your drink coupons!**

If you need suggestions for dinner, please speak to any of the folks from EDM – they'll be happy to provide you with some ideas and directions...

SESSION F: Codes & Standards

- 8:00 am – 8:25 am **ANSI O5 and NESC Updates**
Nelson Bingel, Osmose Utility Services, Inc.
- 8:25 am – 8:50 am **NERC TADS: 2008 YE Results – Comparative Analysis of AC Transmission Circuit Reliability for Improving Performance**
Mike Pakeltis, Centerpoint Energy
- 8:50 am – 9:15 am **Wind Loading on Transmission Line Structures – Comparison of Codes, In-Situ Measurements and Use of Advanced Methods**
Frédéric Légeron, University of Sherbrooke

SESSION G: Projects in the Limelight

- 9:15 am – 10:05 am **Installing the World's Second – and Largest – Transmission Line Catenary Structure**
Peter Catchpole, POWER Engineers, Inc.
- 10:05 am – 10:20 am **BREAK**

SESSION H: Raptor Protection – Mitigating Electrocutions and Collisions

- 10:20 am – 10:45 am **The Use of Insulating Tape to Reduce Raptor Electrocutions in the Mongolia Steppe**
Rick Harness, EDM International, Inc.
- 10:45 am – 11:10 am **Bird's Eye View: How Birds See is Key to Avoiding Power Line Collisions**
Megan Diamond, Endangered Wildlife Trust
- 11:10 am – 11:35 am **Mitigation of Transmission Lines against Bird Hazards - the Israeli Experience**
Ofer Bahat, University of Haifa and the Technion Institute of Technology; BirdsVision Ltd.

SESSION I: Wood Pole Issues

- 11:35 am – 12:00 noon **Performance of Boron and Boron/Fluoride Pastes and Wraps over a 2-year Period on U.S. Pole Species**
Jeff Morrell, Oregon State University
- 12:05 pm – 12:25 pm **Potential Effects of Climate Change on Wood Pole Species Distribution**
Jerry Zak, GEI Consultants
- 12:25 pm – 1:30 pm **LUNCH - Salons E-H**

1:15 pm – 4:45 pm **EXHIBITS AND DISPLAYS – Windsor I and Windsor II Rooms**
❖ Refreshments Served at 3:00 p.m.

- 6:00 pm – 9:00 pm **CASH BAR – Salons E-H**
- 7:00 pm – 9:00 pm **CONFERENCE BANQUET & GUEST SPEAKER – Casual Attire!!**

SESSION J: Managing Assets

- 8:00 am – 8:25 am **Distribution Risk Management: Pro-Active Strategies to Reduce Vulnerability**
Willie Thomas, San Diego Gas & Electric Company
- 8:25 am – 8:50 am **Inspection & Maintenance Standards: Transitioning from Prescriptive Regulation**
Mel Stark, Southern California Edison
- 8:50 am – 9:15 am **Approaches to Ensure the Long-Term Integrity of Wood Pole Transmission Systems of the Kenai Peninsula**
Don Smith, Homer Electric Association & Rob Nelson, EDM International, Inc.
- 9:15 am – 9:40 am **Mapping for Transmission Lines**
Mike Hart, Towill, Inc.
- 9:40 am -10:00 am **BREAK**

SESSION K: TECHNOLOGY SHOWCASE – Innovations in Power Delivery

- 10:00 am – 10:25 am **Best Handling and Procurement Procedures for Water-borne (CCA) Treated Wood Poles**
Bill Grimes, Centerpoint Energy & Ashok Sundaram, Electric Power Research Institute
- 10:25 am – 10:50 am **Reliability-Centered Maintenance: An Optimal Probabilistic Pole Replacement Strategy**
Jalal Kia & Dan McLeeley, Infrastructure Asset Management Systems
- 10:50 am – 11:15 am **Taking a Digital Approach to Pole Inspections: A Case Study**
Earle Jenkins, Alamon & Oliver Hein, IML
- 12:00 noon – 4:30 pm **FIELD SESSION & LUNCH (BBQ starts at 12:15 pm)**
EDM's Office and Lab Facility
4001 Automation Way

- ❖ **Bring a jacket and wear shoes that can get wet in case conditions aren't ideal!!**
- ❖ **Buses will pick up beginning at 11:30 am outside the south-facing door outside the conference room area.**

A bus will transport conference attendees to EDM and will depart at the conclusion of the technical session (go out of the south-facing door from the convention area of the hotel and the bus will pick up there). Please note that parking is not readily available at EDM and the bus will provide a convenient pick up and drop off!

- ◆ Conductor Cleaning for Splice Installation
- ◆ Conductor Sag/Clearance Monitoring
- ◆ Sub-grade Corrosion Detection
- ◆ Phase Identification
- ◆ Inspection Software
- ◆ Destructive testing of fiberglass pole
- ◆ Destructive testing of fiberglass-reinforced wood pole
- ◆ Correcting Hot Connections and Line Uprating
- ◆ Raptor Protection Devices / Technologies
- ◆ Rocky Mountain Raptor Program (*bring your cameras!*)
- ◆ Pole Inspection with Resistance Drilling
- ◆ Wood Preservation
- ◆ Nondestructive Decay Detection and Serviceability Identification

SESSION L: New Developments in Construction & Maintenance

- 8:00 am – 8:25 am **The uPole: A New Concept in Distribution Poles**
Gregory Thomas, NBU Utilities & Jim Davidson, Ameron
- 8:25 am – 8:50 am **Technical Developments in Corrosion Inspection**
Kevin Niles, Osmose Utilities Services

SESSION M: Case Studies in Power Delivery – Part II

- 8:50 am – 9:15 am **Optimizing Thermal Rating of Optical Ground Wire**
Larry Henrikson, POWER Engineers, Inc.
- 9:15 am – 9:40 am **Susquehanna-Roseland Project: A Vital Link in the PJM Backbone Transmission Projects**
Jay Keeler, PPL Electric Utilities & Ken Simpson, Sargent & Lundy
- 9:40 am – 10:00 am **BREAK**

SESSION N: Conductor & Insulator Technology – Part II

- 10:00 am – 10:25 am **Experiences Using Twisted Pair Conductor for Control of Conductor Motion**
Bob Kluge, American Transmission Company
- 10:25 am – 10:50 am **Connectors – The Weak Link in the Chain!**
Carl Tamm, Classic Conductors
- 10:50 am – 11:15 am **Flexural Characteristics of the ACCC/TW Conductor**
Brian Burks, University of Denver
- 11:15 am – 11:45 am **Closing Remarks, Discussion, Announcements**

PLEASE!

Your input is greatly appreciated! Please take a few moments to complete the evaluation form! Your comments and suggestions are valuable and help us to ensure that we bring relevant topics to you in a professional and worthwhile format.