



2016 International Conference on Overhead Lines

Design, Construction, Inspection & Maintenance

April 4-7, 2016 Fort Collins, Colorado USA

CONFERENCE AGENDA

Sunday – April 3, 2016

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

6:00 pm – 7:30 pm **PRE-REGISTRATION** – Rotunda – Near the Hotel Elevators, Fort Collins, Marriott

Monday – April 4, 2016

7:30 am – 8:45 am *Attire is Casual throughout the Conference; be prepared for inclement weather on Wednesday!*
REGISTRATION – Rotunda – Near the Hotel Elevators, Fort Collins, Marriott

7:30 am – 8:30 am **SPEAKER'S BREAKFAST** – Windsor I & II Meeting Rooms (this is changed from prior copies)
****** Breakfast for Conference Speakers and Moderators Only******

8:45 am – 9:30 am **WELCOME, INTRODUCTIONS, ANNOUNCEMENTS AND AN INDUSTRY UPDATE**– Salons A-D
“An Industry Update”
Andy Stewart, President of EDM International, Inc., Colorado, USA

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

SESSION A: Managing Transmission Assets

Moderated by: Sam Jack, EDM International, Inc.

9:30 am – 9:55 am **Upgrading an Existing 230 kV Single-Circuit Transmission Line –
When Engineers Think Outside the Box**

Karen Callery, Hydro One, Toronto, CANADA

9:55 am – 10:20 am **Sustainability Approach in Transmission Line Engineering**

Clinton Char, Southern California Edison, California & Ajay Mallik, SANPEC, Inc., Texas, USA

10:20 am – 10:45 am **Transmission Line Asset Management at Salt River Project**

Yancy Gill, Salt River Project, Arizona, USA

10:45 am – 11:10 am **BREAK**

SESSION B: A Utility View of Animal-Caused Outages – Considerations for Retrofitting Standards

Moderated by: Melissa Landon, EDM International, Inc.

11:10 am – 11:35 am **Electric Distribution Avian Protection Standards**

Larry Claxton, Xcel Energy, Colorado, USA

11:35 am – 12:00 noon **Standards and Methods for Animal Protection on the Electrical Power System**

Tom Fieldse, Southern California Edison, California, USA

12:00 noon – 12:25 pm **Perspectives on 16 Years of Raptor Protection (or... Birds Don't Read the Books...)**

Bill Galloway & Kirsta Scherff-Norris, Colorado Springs Utilities, Colorado, USA

12:25 pm – 1:20 pm **LUNCH** – Salons E-H



SESSION C: Our Electric Utility Industry – Some “Unique” Perspectives

Moderated by: Ron Randle, EDM International, Inc.

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|-------------------|---|
| 1:20 pm – 1:45 pm | From the Executive Suite to the Hot Seat
<i>Bill Herdegen, Innovari, Florida, USA (formerly with ComEd, KCPL and CLP)</i> |
| 1:45 pm – 2:10 pm | Business... as UN-usual...
<i>Rick Bush, Strategic Director, T&D World Magazine, Kansas, USA</i> |
| 2:10 pm – 2:35 pm | Fun with Wires
<i>Peter Catchpole, POWER Engineers, Inc., Idaho, USA</i> |
| 2:35 pm – 3:00 pm | NIMBY is BANANAs
<i>Marlon Vogt, Ulteig Engineers, Inc., Iowa, USA</i> |
| 3:00 pm – 3:25 pm | BREAK |

SESSION D: Looking at Lines... From the Air

Moderated by: Richie Tedesco, EDM International, Inc.

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|-------------------|--|
| 3:25 pm – 3:50 pm | Unmanned Aerial Systems: Government, Governance and Gadgets
<i>Eileen Lockhart, Xcel Energy, Colorado, USA & Andy Stewart, EDM International, Colorado, USA</i> |
| 3:50 pm – 4:15 pm | UAVs in Line and Tower Inspection
<i>Ike van Cruyningen, LineSpect, BC, CANADA & Paul Schneider, Southern Company, Georgia, USA</i> |
| 4:15 pm – 4:40 pm | Leading the Way with Long-Range Unmanned Aerial Systems (UAS)
<i>Jim Downie, Environmental Consultants, Inc., Colorado USA & Chris Vallier, FLOT, Colorado USA</i> |
| 4:40 pm – 5:05 pm | Pole and Tower Inspections with “Drones” – It’s All About Image!
<i>Wes Oliphant, ReliaPOLE Inspection Services Company, Inc., Texas, USA</i> |
| 5:30 pm – 7:30 pm | ICEBREAKER – hosted by EDM International, Inc. -- <u>Remember your drink coupons!</u> Salons E-H |

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



SESSION E: New Line Construction – Challenges & Considerations

Moderated by: Frank Lehnerz, EDM International, Inc.

8:00 am – 8:25 am **Challenges of Using Existing Rights-of-Ways to Construct New Transmission Lines**

Eric Bradley, Southern California Edison, California, USA

8:25 am – 8:50 am **Construction and Permitting Challenges in the Rocky Mountain West**

Parker Wrozek, XCEL Energy & Sarah Beckman, Ulteig Engineers, Inc., Colorado, USA

8:50 am – 9:15 am **Aesthetic Considerations in Structure Design Process**

Ken Sharpless, ASEC, Inc., Texas, USA

SESSION F: Extending the Life of Wood Pole Assets

Moderated by: Andy Kudick, INTEC Services, Inc.

9:15 am – 9:40 am **Transforming ESB Network’s Wood Pole Management Strategy**

Kevin O’Connor & Pat Eccles, ESB Networks, Dublin, IRELAND

9:40 am – 10:05 am **A Simple Method for Evaluating Fire Resistance of Field-Applied Surface Coatings and Physical Barriers for Wood Poles**

Jeff Morrell, Oregon State University, Oregon, USA

10:05 am – 10:30 am **BREAK**

SESSION G: PANEL DISCUSSION – T&D Asset Management – Solutions to Today’s Challenges

Moderated by: Andy Stewart, EDM International, Inc.

10:30 am – 12:00 Noon

Panel Participants:

- Tom Janzen, formerly with Fortis Alberta
- Travis Burnett & Shawn Grant, Salt River Project
- Mark Judy, Southern California Edison
- Don Roberts, Western Area Power Administration

12:00 Noon – 1:00 pm

LUNCH – Salons E-H

1:00 pm – 5:00 pm

EXHIBITS AND DISPLAYS – Pavilion

❖ Refreshments Served at 3:00 p.m.

Exhibitors:

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|--|------------------------------------|---|
| ▶ 3M Company | ▶ Hubbell Power Systems, Inc. | ▶ Polesocks LLC |
| ▶ Advanced Aerial Inspection Resources | ▶ Hughes Brothers, Inc. | ▶ Power Line Sentry, LLC |
| ▶ Bell Lumber & Pole Company | ▶ Intec Services, Inc. | ▶ Public Utilities Maintenance Inc. |
| ▶ Brooks Manufacturing Company | ▶ Kaddas Enterprises, Inc. | ▶ Rauckman Utility Products, LLC |
| ▶ CartoPac International, Inc. | ▶ Kinectrics | ▶ Reliable Lines |
| ▶ CEATI International | ▶ Laminated Wood Systems, Inc. | ▶ ReliaPole Inspection Services Company |
| ▶ DIS-TRAN Overhead Solutions | ▶ McFarland Cascade | ▶ ROHN Products, LLC |
| ▶ EDM International, Inc. | ▶ North American Wood Pole Council | ▶ Sabre Tubular Structures |
| ▶ Exacter, Inc. | ▶ Osmose Utilities Services, Inc. | ▶ TE Connectivity |
| ▶ Hendrix Aerial Cable Systems | ▶ PLH Group, Inc. | ▶ Transmission Innovations |
| ▶ Highland Composites | ▶ PoleCare, Inc. | ▶ Utility Asset Management Inc. |
| ▶ Hot Shot Radar Inspections LLC | ▶ Poles, Inc. | ▶ Valmont Newmark |

6:00 pm – 9:00 pm

CASH BAR – Salons E-H

7:00 pm – 9:00 pm

CONFERENCE BANQUET & GUEST SPEAKERS – Casual Attire!! - Salons E-H

Guest Speakers at 7:45: Mark “Oz” Geist & John “Tig” Tiegen are two of the security team members who were in Benghazi, Libya on September 11, 2012 and co-authors of the book and movie, “13 Hours: The Inside Account of What Really Happened in Benghazi.” These men have an amazing story of survival and were responsible for saving many lives in the attack on the U.S. State Department Compound and CIA Annex.

(Anyone wishing to get an autographed book plate can get one at the banquet).

Spouse/Guest Dinner Tickets are \$50.00. See EDM to purchase.



SESSION H: State-of-the-Art in Mitigating Electrocutions and Animal-Caused Outages

Moderated by: *Duncan Eccleston, EDM International, Inc.*

- 8:00 am – 8:25 am **The Material Science Behind Raptor Covers and What to Look For**
Stephen Parker, TEConnectivity, North Carolina, USA
- 8:25 am – 8:50 am **Ridgway’s Hawks in the Dominican Republic**
Ron Spencer, White River Electric Association (retired), Colorado, USA
- 8:50 am – 9:15 am **The Development and Performance of Mitigation Measures to Reduce Avian Mortalities on Overhead Lines in South Africa – Lessons Learned and the Way Forward**
Mattheus Pretorius, Endangered Wildlife Trust, Gauteng, SOUTH AFRICA
- 9:15 am – 9:40 am **Transmission Line Avian Collision Analysis using PLS CADD and GIS**
Claudia Rocca, PSE&G, New Jersey, USA & Rick Harness, EDM International, Inc., Colorado, USA

SESSION I: “Managing” Mother Nature – Before, During and After Disasters

Moderated by: *Scott Monroe, EDM International, Inc.*

- 9:40 am – 10:05 am **Logistics of Storm Response: What Works and What Doesn’t from a Responder’s Point of View**
Mike Scrivener, INTEC Services, Inc., Colorado, USA
- 10:05 am – 10:30 am **After the Avalanche: Snettisham Transmission Line**
Eric Eriksen, Alaska Electric Light & Power Company, Alaska, USA
- 10:30 a.m. – 10:50 a.m. **Break**

SESSION J: PANEL DISCUSSION – Nondestructive Testing of Wood Poles

Moderated by: *Rob Nelson, EDM International, Inc.*

- 10:50 am – 12:20 pm **Panel Participants:**
 - Brian Fisher, InnerPole
 - Anthony Lima, PortaCAT Industries Pty Ltd
 - Dan McLeely, Reliable Lines
 - Glenn Light, Southwest Research Institute
 - Wayne Hall, Utility Asset Management

12:20 pm – 5:00 pm FIELD SESSION & LUNCH (Outdoor BBQ starts at 12:30 pm)

EDM’s Office and Lab Facility
4001 Automation Way

- ❖ **Please bring a jacket and wear shoes that can get wet in case conditions aren’t ideal!!**
- ❖ **Wear Sunscreen!!! You’re almost a mile high here in Fort Collins...**
- ❖ **Buses will pick up beginning at 12:20 pm out 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! It is only a 5-minute ride to EDM!!!

The Rocky Mountain Raptor Program will be in attendance; [bring your camera!](#)



SESSION K: Design, Construction, Inspection & Maintenance -- Reliable Power Delivery

Moderated by: Paul Ringenberg, EDM International, Inc.

8:00 am – 8:25 am	Utility Pole Types and Configurations outside North America <i>Chris Melhorn, Electric Power Research Institute, Tennessee, USA & Jerry Zak, GEI Consultants, Inc., Connecticut, USA</i>
8:25 am – 8:50 am	Live Line Maintenance to Design <i>Candice Pasley, AltaLink, Alberta, CANADA</i>
8:50 am – 9:15 am	Entergy Aqueous Guyed Tower Pile Restoration Project <i>Jessica Dufrene, Entergy, Louisiana, USA & Spencer Loe, Osmose Utilities Services, Georgia, USA</i>
9:15 am – 9:40 am	Automation Power Restoration System for 11kV Overhead Lines in CLP Power <i>Siu Ki Lau, CLP Power Hong Kong Ltd., Hong Kong, CHINA</i>
9:40 am – 10:10 am	BREAK

SESSION L: Technology Advancements to Ensure Regulatory Compliance

Moderated by: Jason Blackford, EDM International, Inc.

10:10 am – 10:35 am	Update to Inspection of Aged Self-Damping Conductors on NPPD Overhead Power Lines <i>Mark Fletcher, Nebraska Public Power District, Nebraska, USA & Andrew Rizzetto, Kinectrics, Ontario, CANADA</i>
10:35 am – 11:00 am	High Voltage Diagnostic Measurements for Surge Arrester Condition Assessment <i>Donald Kasten & Stephen Sebo, Ohio State University, Ohio, USA & John Lauletta, Exacter, Inc., Ohio, USA</i>
11:00 am – 11:25 am	Mitigation of Severe Contamination Problems on Overhead Lines without the Need for Composite Insulators <i>Jean Marie George, Sediver, Quebec, CANADA</i>
11:25 am – 11:50 pm	Transmission Line Lightning Protection and Reliability Performance Enhancements using MOV Arrester Technology <i>Steve Brewer, Hubbell Power Systems, South Carolina, USA</i>

Wrap-up, Closing Remarks, Discussion, Announcements

