



# International Conference on Overhead Lines

**Design, Construction, Inspection & Maintenance**

**March 25-28, 2019 Fort Collins, Colorado USA**

## CONFERENCE AGENDA

### Sunday – March 24, 2019

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

**7:00 pm – 8:00 pm** **REGISTRATION** – Rotunda – Near the Hotel Elevators, Fort Collins, Marriott

### Monday – March 25, 2019

*Attire is Casual throughout the Conference; be prepared for inclement weather on Wednesday!*

**7:30 am – 8:45 am** **REGISTRATION** – Rotunda – Near the Hotel Elevators, Fort Collins, Marriott

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

**8:45 am – 9:40 am** **WELCOME, INTRODUCTIONS AND ANNOUNCEMENTS** – Salons A-D  
**"The State of the Industry"**  
*Andy Stewart, President of EDM International, Inc., Fort Collins, Colorado USA*

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

#### SESSION A: Let's Start at the Very Beginning... What we Need to Know

Moderated by: Andy Stewart, EDM International, Inc.

**9:45 am – 10:25 am** **Overhead Line Grounding 101**  
*William A. (Bill) Chisholm, IEEE Fellow and EDM International, Inc. Associate, Toronto, Ontario Canada*

**10:30 am – 10:55 am** **Adapting to OSHA Changes in the Arch Flash Boundary Zones**  
*Tom Fieldse, Southern California Edison, Pomona, California USA*

**10:55 am – 11:20 am** **BREAK**

#### SESSION B: Taking a Look at the Big Picture

Moderated by: Ken Lee, EDM International, Inc.

**11:20 am – 11:45 am** **Big Data and Analytics in Overhead Transmission; Projects in Progress**  
*David Blaza, POWER|Informa, San Francisco, California USA*

**11:50 am – 12:15 am** **The Future of Pole Protection: A Focus on Sustainability**  
*Jeff D. Lloyd, Nisus Corporation, Casa Grande, Arizona USA*

**12:15 pm – 1:15 pm** **LUNCH** – Salons E-H

SESSION C: Testing and Monitoring

Moderated by: Tyler Lonsdale, EDM International, Inc.

- 1:15 pm – 1:40 pm** **Insulators Under Fire**  
*Jean-Marie George, Sediver Research Center, Saint Yorre FRANCE*
- 1:45 pm – 2:10 pm** **Total Power Losses in Overhead Conductors – An Improved Model**  
*Ibrahim Hathout, Hathout PGS, Inc. & Karen Callery, Hydro One Networks, Toronto, Ontario CANADA*
- 2:15 pm – 2:40 pm** **Installation of Cathodic Protection Remote Monitoring Systems on Electric Transmission Structures**  
*Kevin Niles, Osmose Utilities Services, Inc., Buffalo, New York USA*
- 2:40 pm – 3:00 pm** **BREAK**

SESSION D: Innovations in Protecting Wildlife and Mitigating Outages I

Moderated by: Frank Lehnerz, EDM International, Inc.

- 3:00 pm – 3:25 pm** **Radar Monitoring of Songbirds Migrating Near a New Electric Power Transmission Line Crossing – Kittatinny Ridge, New Jersey**  
*Claudia Rocca, PSE&G, South Plainfield, New Jersey USA & Jeffrey Luzenski, PPL Electric Utilities Corporation, Allentown, Pennsylvania USA*
- 3:30 pm – 3:55 pm** **A Collaborative Approach to Design Standards for System Hardening and Avian Protection**  
*Cristina Frank & Bryndon Blackburn, Pepco Holdings, Newark, Delaware USA and Brock Fiedler, EDM International, Inc., Fort Collins, Colorado USA*
- 4:00pm – 4:25 pm** **Innovative Wildlife Protection Project – 69kV Alaska Substation Retrofitting**  
*Eric Eriksen, Alaska Electric Power Company, Juneau, Alaska USA*
- 5:30 pm – 7:30 pm** **ICEBREAKER – hosted by EDM International, Inc. – Bring your drink coupons! Salons E-H**

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*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 E: Engineering Power Lines – The Facts, The Challenges

Moderated by: Rob Nelson, EDM

- 8:00 am – 8:40 am** **The Ruling Span. *What is it and Why is it Important?***  
*Peter Catchpole, POWER Engineers, Inc., Hailey, Idaho USA*
- 8:45 am – 9:10 am** **Pre-Engineered Poles – The Challenge of Matching Reality with Design Assumptions**  
*Ken Sharpless, TAPP, Arlington, Texas USA*
- 9:15 am – 10:10 am** **The Challenges for a Successful EPC Project**  
*Ajay Mallik, SANPEC, Inc., Tomball, Texas USA*
- 10:15 am – 10:40 am** **The Challenges of Allowing Wireless Carriers to Mount Antennas on Lattice Steel and Monopole Towers**  
*Sergio Arambula, Southern California Edison, Pomona, California USA*
- 10:40 am – 11:00 am** **BREAK**

SESSION F: Innovative Ways to Improve Line Reliability

Moderated by: Andy Kudick, Intec Services, Inc.

- 11:00 am – 11:25 am** **Ultrasonic Testing for Worst Performing Circuit Analysis**  
*Bob Gaw, Kansas City Power & Light and Westar, Evergy Companies, Kansas City, Missouri USA*
- 11:30 am – 11:55 am** **Virtual Inspection of Transmission and Distribution Assets and Vegetation Using Remote Sensing Data**  
*Scott Rogers, ECI Environmental Consultants, Pittsburgh, Pennsylvania USA*
- Noon – 1:00 pm** **LUNCH – Salons E-H**

**1:00 pm – 5:00 pm** **EXHIBITS AND DISPLAYS –Outdoor Pavilion**

❖ Refreshments Served at 3:00 p.m.

**Exhibitors:**

American Transmission Company	Laminated Wood Systems, Inc.
Bell Lumber & Pole Company	McFarland Cascade
Bold Transmission, LLC	North American Wood Pole Council
Brooks Manufacturing Company	Osrose Utilities Services, Inc.
CartoPac International, Inc.	PoleCare, Inc.
Eagle Electrocutation Solutions	Poles, Inc.
EDM International, Inc.	PoleSocks
Genics, Inc.	Polux USA
Highland Composites	Power Line Sentry, LLC
Hot Shot Infrared Inspections LLC	RS Poles
Hubbell Power Systems, Inc.	Sediver USA
Hughes Brothers, Inc.	TE Connectivity
INTEC Services, Inc.	Valmont Newmark
Kaddas Enterprises, Inc.	Viance, LLC
Kinectrics	Wood Care Systems

**6:00 pm – 9:00 pm** **CASH BAR – Salons A-D**

**7:00 pm – 9:00 pm** **CONFERENCE BANQUET & GUEST SPEAKER – Casual Attire!!**  
**Salons A-D**  
**Entertainment at 7:45**

## SESSION G: Panel Session – Wildfires & Powerlines – How is the Utility Industry Responding?

Moderated by: Andy Stewart, EDM International, Inc.

**8:00 am – 10:30 am** Randy Lyle, San Diego Gas & Electric / Sempra Utilities  
Tom Jacobus, Southern California Edison  
J.D. Dwyer, EDM International, Inc.

**10:30 a.m. – 11:00 a.m.** Break

## SESSION H: Improving Structures for Life Extension

Moderated by: Randall Peterson, EDM International, Inc.

**11:00 am – 11:25 am** **Evaluation of Sectional Composite Poles for Use in Access-Restricted Areas**  
*Clinton Char, Southern California Edison*

**11:30 am – 11:55 pm** **Modernizing Steel Asset Life Extension**  
*John R. Spiller, Osmose Utilities Services, Inc., Peachtree City, Georgia USA*

**12:00 noon – 5:00 pm** **FIELD SESSION & LUNCH (BBQ starts at 12:10 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 12:00 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!!!*

### Field Demonstrations included in the Field Session:

- ✓ Rocky Mountain Raptor Program – *bring your cameras!*
- ✓ Raptor Protection Devices and Technology
- ✓ Drone Installation of Bird Diverters
- ✓ ROW Vehicles and Equipment
- ✓ Display of Distribution Assemblies
- ✓ Line Rating
- ✓ Phase Identification
- ✓ Conductor Cleaning
- ✓ Steel Structure Inspection and Restoration / Ground Impedance Measurement
- ✓ Drone Utility Line Inspection
- ✓ Destructive Fiberglass Pole Test
- ✓ Pole Reinforcement
- ✓ Fire Retardant Systems for Wood and Fiberglass Poles
- ✓ FRP Davit Crossarm Assembly Testing
- ✓ Display of 230 kV Transmission Arm
- ✓ Lidar / Phodar Van



SESSION I: Installation, Maintenance and Reliable Power Delivery

Moderated by: Arun Pandey, EDM

- 8:00 am – 8:25 am** **Bird Collision Risk Modeling: A Detailed Quantitative Span-by-Span Risk Assessment**  
*Paul Petersen, EDM International, Inc., Fort Collins, Colorado USA*  
& *Nikki Heck, AltaLink, Calgary, Alberta CANADA*
- 8:30 am – 8:55 am** **Power Pole Retrofitting for Eagles: Supplemental Funding Available from Wind and Other Industries**  
*Duncan Eccleston & Libby Mojica, Eagle Mitigation Solutions, Fort Collins, Colorado USA*
- 9:00 am – 9:25 am** **Near-Ultraviolet Light Reduced Sandhill Crane Collisions with a Powerline by 98%!**  
*J.D. Dwyer, EDM International, Inc., Fort Collins, Colorado USA*
- 9:25 am – 9:50 am** **BREAK**

SESSION J: Advancements in Wood Products

Moderated by: Rob Nelson, EDM

- 9:50 am – 10:15 am** **Wood Components Used in Utility Line Applications**  
*Matt Konkler, Oregon State University, Corvallis, Oregon USA*
- 10:20 am – 10:45 am** **DCOI – An Oil-borne Preservative System for Pressure Treatment of Poles, Posts**  
*Kevin Archer, Viance, Charlotte, North Carolina USA*

SESSION K: Conference Closing Remarks

Moderated by: Andy Stewart, EDM International, Inc.

- 10:50 am – 11:30 am** **Wrap-up, Closing Remarks, Discussion, Announcements**  
This is a great time to bring up topic ideas for future conference presentations!

**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.

