

International Conference on Overhead Lines Design, Construction, Inspection & Maintenance



CONFERENCE AGENDA

Sunday, March 30, 2008

- 6:00 a.m. - SKI TRIP TO WINTERPARK (depart Marriott from lobby at 6:15 a.m.)
Reservations Required!!
- 7:00 p.m. - 8:00 p.m. PRE-REGISTRATION

Monday, March 31, 2008

- 7:00 a.m. - 8:30 a.m. REGISTRATION
- 7:30 a.m. - 8:15 a.m. **SPEAKER'S BREAKFAST**
Breakfast for Conference Speakers and Moderators
- 8:30 a.m. - 9:15 a.m. **WELCOME, INTRODUCTIONS AND ANNOUNCEMENTS**
❖ *Andy Stewart, President, EDM International, Inc. – “State of the Industry...”*
❖ *Andrew Phillips, Program Manager, Electric Power Research Institute*

******* Technical Presentation Times include 5-Minute Discussion - Located in Salons A-D*******

SESSION A: THE CUTTING EDGE

Moderated by: Andy Stewart, EDM International, Inc.

- 9:20 a.m. - 9:45 a.m. **“Energy Integration in Central America”**
Pedro Pablo Quiros, Instituto Costarricense de Electricidad
- 9:45 a.m. - 10:10 a.m. **“Lessons from an Outside of the Box Transmission Line Project”**
Peter Catchpole, POWER Engineers, Inc.
- 10:10 a.m. - 10:35 a.m. **“T&D Engineering Certificate Program”**
Peter McKenny, Gonzaga University
- 10:35 a.m. - 10:50 a.m. **BREAK**

SESSION B: CONSTRUCTION TECHNIQUES AND INNOVATIONS

Moderated by: Neil Hurst, EDM International, Inc.

- 10:50 a.m. - 11:15 a.m. **“Reducing Environmental Impact of Transmission Line Construction Through Use of Helicopters”**
Tom McShane, AIR2
- 11:15 a.m. - 11:40 a.m. **“Foundation Rehabilitation of a 500-kV Tower in Big Sandy”**
Rengaswamy Shanmugasundaram, Mesa Associates, Inc. & Scott Monroe, Osmose
- 11:40 a.m. - 12:05 p.m. **“Increasing Transmission Capacity -- Case Studies and Techniques Increased Transmission Capacity by Increasing Ground Clearance”**
Bob Reisdorff, Laminated Wood Systems, Inc.
- 12:05 p.m. - 1:00 p.m. **LUNCH (provided) – Salons E - H**

Monday, March 31, 2008 (continued)

SESSION C: AVIAN INTERACTIONS WITH POWER LINES

Moderated by: Joel Hurmence, EDM International, Inc.

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| 1:00 p.m. | - | 1:25 p.m. | “Raptor Electrocutions in the Mongolian Steppe”
<i>Rick Harness, EDM International, Inc.</i> |
| 1:25 p.m. | - | 1:50 p.m. | “Use of Methyl Anthranilate Fog to Haze Nuisance Birds at High-Voltage Substation”
<i>Ron Critchlow, Pacific Gas & Electric</i> |
| 1:50 p.m. | - | 2:15 p.m. | “Use of Modified Horizontal and Vertical Radar to Investigate Avian Collision Potential Near Proposed or Existing Overhead Lines”
<i>Jake Verschuly, Hamer Environmental</i> |
| 2:15 p.m. | - | 2:40 p.m. | “A Landscape Scale Model to Predict Risk of Bird Collisions with Electric Power Lines in Alberta”
<i>Nikki Heck, AltaLink</i> |

SESSION D: FORENSIC INVESTIGATION

Moderated by: John Kile, Electric Power Research Institute

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| 2:40 p.m. | - | 3:05 p.m. | “Failure Investigations: Are You Ready for Your Phone to Ring???”
<i>Ron Carrington, POWER Engineers, Inc.</i> |
| 3:05 p.m. | - | 3:20 p.m. | BREAK |

SESSION E: NEW THINKING – TOOLS FOR ASSET MANAGEMENT

Moderated by: Danny Pearson, Xcel Energy

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| 3:20 p.m. | - | 3:45 p.m. | “Australian Approach to Developing an Asset Management Inspection Qualification Program”
<i>Peter Bell, Electrix Pty Ltd</i> |
| 3:45 p.m. | - | 4:10 p.m. | “Bottom Up Asset Management”
<i>John Stead, Stead Consulting, Inc. & Marty Niles, Cantega Technologies, Inc.</i> |
| 4:10 p.m. | - | 4:35 p.m. | “Utilizing GIS in Inspections and Asset Management”
<i>Eric Fulcher, 3-GIS, LLC</i> |
| 4:35 p.m. | - | 5:00 p.m. | “EPRI Zed Meter: Instrument Development and Initial Field Trials”
<i>Fabio Bologna, EPRI</i> |

5:30 p.m. - 7:30 p.m. 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...

Tuesday, April 1, 2008

SESSION F: CODES & STANDARDS – What’s New???

Moderated by: Ron Randle, EDM International, Inc.

- 8:00 a.m. - 8:25 a.m. “The New ANSI O5-2007 and Upcoming NESC 2012”
Nelson Bingel, Osmose Utility Services, Inc.
- 8:25 a.m. - 8:50 a.m. “ASCE FRP Utility Structures Task Committee Update on New Standard”
Jim Davidson, ASCE FRP Task Chair and Ameron International

SESSION G: ADVANCEMENTS IN INSPECTION METHODOLOGIES

Moderated by: Andy Gappinger, PoleCare, Inc.

- 8:50 a.m. - 9:15 a.m. “New Methodology to Assess Corrosion Degradation of Transmission Poles and Lattice Structures”
Kevin Garrity, CC Technologies, Inc.
- 9:15 a.m. - 9:40 a.m. “Standardizing Transmission Inspection Data Collection and Management Practices at Xcel Energy”
Randy Toman, Xcel Energy & Mike Abbey, EDM International, Inc.
- 9:40 a.m. - 9:55 a.m. **BREAK**

SESSION H: STATE-OF-THE-ART CONDUCTOR AND INSULATOR TECHNOLOGY – PART I

Moderated by: Chris Damianakes, Pacific Gas & Electric

- 9:55 a.m. - 10:20 a.m. “230 kV Thermal Upgrade Using ACCR High-Temperature Low-Sag Conductor”
John Collins, Platte River Power Authority & Kamal Amin, 3M Electrical Markets Div.
- 10:20 a.m. - 10:45 a.m. “Non-Ceramic Insulators Corona Rings at 138 kV and 115 kV”
Andrew Phillips, EPRI
- 10:45 a.m. - 11:10 a.m. “Use of Shunts for Repair and Upgrading of Compression Slices & Dead-ends”
Robert Whapham, Preformed Line Products

SESSION I: TOOLS FOR OPTIMIZING THE LIFE AND CAPACITY OF LINES

Moderated by: Arun Pandey, EDM International, Inc.

- 11:10 a.m. - 11:35 a.m. “Using Real-Time Conductor Clearance Monitoring to defer Line Modifications”
George Stranovsky & Andy Cline, NYPA
- 11:35 a.m. - 12:00 noon “Non-Contact Sensor System for Real-Time High-Accuracy Monitoring of Overhead Transmission Lines”
Peter Halverson & Steve Syracuse, Promethean Devices, LLC
- 12:00 noon - 12:25 p.m. “Backscatter Sensor Technology for Transmission Lines”
Andrew Phillips, EPRI
- 12:25 p.m. - 1:25 p.m. **LUNCH (provided) – Salons E - H**

1:15 p.m. - 4:45 p.m. **EXHIBITS AND DISPLAYS - Refreshments at 3:00 p.m. – Windsor I and II Room**

6:00 p.m. - 9:00 p.m. **CASH BAR – Salons E - H**

7:00 p.m. - 9:00 p.m. **CONFERENCE BANQUET AND ENTERTAINMENT – Casual Attire!!**

Wednesday, April 2, 2008

SESSION J: PLANNING, ENGINEERING AND EVALUATING LINES

Moderated by: Rob Nelson, EDM International, Inc.

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| 8:00 a.m. - | 8:25 a.m. | “Line-Pole Structure Modeling and Engineering”
<i>Jeff Foley & Dan McLeely, Infrastructure Asset Management Systems Ltd.</i> |
| 8:25 a.m. - | 8:50 a.m. | “Managing Transmission Line Maintenance Projects Through Inspection, Data Analysis and Planning”
<i>Jennifer Johnson, Minnkota Power Cooperative, Inc.</i> |
| 8:50 a.m. - | 9:15 a.m. | “Fitness for Service Evaluation of In-Service Steel Utility Poles”
<i>Hank Kleinfelder, Pole Maintenance Company</i> |
| 9:15 a.m. - | 9:40 a.m. | “The Development of a Free-Standing Structure Standard for Use with Medium Voltage in Built-up Areas Using Prestressed Concrete Poles and Wood Poles”
<i>Barry Hill, Eskom</i> |
| 9:40 a.m. - | 10:00 a.m. | BREAK |

SESSION K: WOOD POLE PRESERVATION

Moderated by: Andy Kudick, Intec Services, Inc.

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| 10:00 a.m. - | 10:25 a.m. | “Mitigation of Preservatives from Poles in Storage: Levels and Possible Management Solutions”
<i>Jeff Morrell, Oregon State University</i> |
| 10:25 a.m. - | 10:50 a.m. | “Alternative Chemistry for Remedial Treatment – Efforts to Reduce Non-Target Toxicity and Risk While Retaining Enhanced Performance”
<i>Bob Butera & Doug Herdman, Osmose Utility Services, Inc.</i> |
| 10:50 a.m. - | 11:15 p.m. | “Dazomet: A Review of an Efficacious, Safe and Cost-Effective Fumigant for Wood Poles”
<i>Randy Gross, Copper Care Wood Preservatives</i> |
| 11:15 p.m. - | 12:00 noon | Field Session Discussion/Explanation
<i>A shuttle bus (80 passengers/trip) will pick up outside the South doors of the hotel at 12:15 p.m..</i> |

12:30 p.m. - 4:30 p.m. FIELD SESSION (lunch provided at EDM)
Bring a jacket as well as shoes that can get wet if conditions aren't ideal!

Field demonstrations at EDM's lab/office (4001 Automation Way)
BBQ Lunch provided, starting at 12:30 p.m.

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!

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| ◆ Conductor Cleaning for Splice Installation | ◆ Raptor Protection Devices |
| ◆ Conductor Sag/Clearance Monitoring | ◆ Rocky Mountain Raptor Program |
| ◆ Pole Top Inspection | ◆ Woodpecker Damage Repair |
| ◆ Sub-grade Corrosion Detection | ◆ Pole Inspection with Resistance Drilling |
| ◆ Phase Identification | ◆ Low-Cost Sensors for Monitoring Line Conditions |
| ◆ Crossarm Reinforcement | ◆ Transmission Line Grounding Evaluation |
| ◆ Inspection Software | ◆ Insulator Inspection |
| ◆ Bird Strike Indicator | ◆ Wood Preservation |
| ◆ Steel Truss Installation | ◆ Infrared Inspection |
| ◆ Destructive testing of crossarms, pole | ◆ Conductor Condition Inspection |
| ◆ Detecting Structure Reliability | ◆ Corona Detection |

Thursday, April 3, 2008

SESSION L: STATE-OF-THE-ART CONDUCTOR AND INSULATOR TECHNOLOGY – PART I

Moderated by: Mark Miller, EDM International, Inc.

- 8:00 a.m. - 8:25 a.m. “Long-Term Durability of the Composite Core Conductor ACCC/TW”
Eric Bosze, University of Southern California
- 8:25 a.m. - 8:50 a.m. “Application of High-Temperature ACSS/TW Conductor Technology”
Michael Pakeltis, Centerpoint Energy
- 8:50 a.m. - 9:15 a.m. “Improving Energy Efficiency on the Supply Side... How New Conductor Technology Can Reduce Your System Losses”
Dave Bryant, CTC Cable Corporation
- 9:15 a.m. - 9:40 a.m. “Don’t Forget to Scan the Conductor During Your UV Inspection”
Paul Lyons, Agent for Ofil, Ltd./DayCor Products
- 9:40 a.m. - 9:55 a.m. **BREAK**

SESSION M: TECHNOLOGICAL ADVANCEMENTS FOR WOOD PRODUCTS

Moderated by: Fabio Bologna, Electric Power Research Institute

- 9:55 a.m. - 10:20 a.m. “Protective Coating for Utility Pole Crossarms (protection from woodpeckers)”
Charles Weisner, Brooks Manufacturing & Shelagh Tupper, National Wildlife Research Center
- 10:20 a.m. - 10:45 a.m. “Delineation of Above-Ground Defects in Douglas-fir Utility Poles”
Connie Love, Oregon State University
- 10:45 a.m. - 11:10 a.m. “Barrier Wrap Technology – Enhancing Preservative Performance in Wood Utility Poles”
Bill Abbott, Pole Maintenance Company
- 11:10 a.m. - 11:30 a.m. **Closing Remarks, 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.

**ASCE Structural Engineering Institute's
Standards Committee on Design
of Steel Transmission Pole Structures**

**April 3 ❖ 8 a.m. to 5 p.m. and
April 4 ❖ 8 a.m. to Noon.**
(in the Windsor I Room, Fort Collins Marriott)

This meeting is open to all interested parties.
See Ron Randle, EDM, with questions.