

# HV Cables Conference

## Transition Joint Technology from HPFF to XLPE Cables

November 14-15, 2017 • Tampa, FL

### Conference Overview

Many North American utilities that manage underground systems have relied upon high pressure fluid-filled ("Pipe Type") systems since the early 1950's. It is projected that these systems, if maintained properly can last a minimum of 100 years and there are many thousands of circuit miles in operation across North America of varying ages. It is also recognized that there is currently only one manufacturer of these systems remaining in the world and a very real threat that this supplier may go out of business due to dropping demand. There is also a financial risk to utilities using these systems, due to lack of competition in the marketplace. This has resulted in several utilities investigating the risk associated operating HPFF systems, and alternatives to repair them in the event of failure. This conference will focus on transition joint technology and their use to manage the risk associated with the loss of supply of spare parts for HPFF systems.

### Themes

#### Transition Joint Design Considerations

- Technical Consideration/Constraints
- Design Standards
- Practicality
- Safety Considerations
- Shelf Life for Emergency Spare Parts Use
- Limitations of use

#### Utility Perspective and Lessons Learned Using Transition Joints

- Reliability
- Safety Experiences
- Practicality
- Cost
- Ease of Install/In-house Experience
- Number of Suppliers
- QA/QC



For more information visit, [www.ceati.com/TD2017](http://www.ceati.com/TD2017)

# DAY 1 • November 14, 2017

## 7:30 – 8:30 Registration & Breakfast - Exhibition Hall

8:30 - 8:50 Opening Remarks & Welcome Address  
Conference Overview & Expected Results *Steve Haddock, CEATI International*

### SESSION 1: Transition Joint Design Considerations

8:50 - 9:25 Overview of HPFF to XLPE Transition Joint Design and Standards *Tommi Virta, Prysmian*

9:25 - 10:20 Nexan's Transition Joint Design Considerations *Mark Stemmler, Nexans*

## 10:00 - 10:30 Morning Break - Exhibition Hall

10:30 - 11:10 HV Transition Joints from Pipe-Type to Extruded Cables *Milan Uzelac, G&W Electric*

11:10 - 11:50 An Overview of Industry Standard Laboratory Mechanical and Electrical Certification and Acceptance Testing of Transition Joints *Ivan Boev, Kinectrics*

11:50 - 12:30 Developing Asset Management Strategy to Improve Improve Reliability of Medium Voltage Underground Cables *Yury Tsimberg, Kinectrics*

## 12:30 - 1:30 Lunch - Exhibition Hall

1:30 - 2:00 Session 1: Panel Discussions & Question Period *All Participants*

### SESSION 2: Utility Experience

2:00 - 2:30 American Transmission Company's Strategy for Determining High Pressure Fluid Filled UG Cable & Accessories Emergency Spares Inventory *Ronald Knapwurst, American Transmission Company*

## 2:30 - 3:00 Afternoon Break - Exhibition Hall

3:00 - 3:30 Philadelphia Electric Company's Experience with Field Application of Transition Joints from XLPE to HPFF Cables *Dayton Duncan, Philadelphia Electric Company*

3:30 - 4:00 Con Edison's Experience, Rational, and Reliability with Transition Joints Installed in the New York City Network *Thomas Villani, Con Edison*

4:00 - 4:45 Session 2: Panel Discussions & Question Period *All Participants*

4:45 - 5:00 Day 1 Closing Remarks & Announcements *Steve Haddock, CEATI International*

## 6:00 - 7:30 Networking Reception - Exhibition Hall



### Transmission Line Asset Management (TLAM)

- Development of Optimal Maintenance Techniques
- Asset Information Needed for Management Purposes and Quality of Information
- New Technologies for Condition Assessment
- Corrosion Control and Mitigation
- Health Assessment & End-of-life Prediction
- Line Component Performance Issues, Evaluations & Predictability
- Asset Investment Decision Making

### Distribution Line Asset Management (DLAM)

- Improving Reliability of Distribution Equipment & Systems
- Cost-Effective Asset Life Cycle Management
- Improving Safety of the Distribution System
- Improving Environmental Sustainability
- Future Distribution System

### Smart Grid (SGTF)

- Distribution (DMS, OMS, SCADA, Distribution Automation, and Integrated Voltage Control with Advanced Metering Infrastructure)
- Operations (Energy Storage, DG Integration, Communication & Data Analytics)
- IT/OT Convergence





# DAY 2 • November 15, 2017

## 7:30 – 8:30 Breakfast - Exhibition Hall

8:30 - 8:35 Morning Announcements

Steve Haddock,  
CEATI International

## SESSION 3: Technical Emergency Preparedness Strategy

8:35 - 9:10 Considerations for Installing Extruded Cables in Steel Pipes

Earle C. Bascom,  
Electrical Consulting Engineers

9:10 - 9:45 The Role of the TUCIG Reference Manual in Transmission Cable Work

Gerry Sheerin,  
Sheerin Technical

## 9:45 - 10:15 Morning Break - Exhibition Hall

10:15 - 10:45 Session 3: Panel Discussion & Question Period

All Participants

## SESSION 4: Moving Forward

10:45 - 11:15 Transmission Spare Cable Strategy: A Laboratory Assessment of Aged Cables Taken from Spare Cables Stored on Cable Reels

Sarajit Banerjee,  
Kinectrics

11:15 - 11:45 State of the Art on Transition Joints

Earle C. Bascom,  
Electrical Consulting Engineers

11:45 - 12:00 Day 2 Closing Remarks & Announcements

Steve Haddock,  
CEATI International

## 12:00 - 1:30 Lunch - Exhibition Hall

3:45 Prize Draw

## CEATI Group Meetings

### Transmission Underground Cables - Reference Manual Task Force Meeting

The Reference Manual covers practices and procedures related to four types of underground transmission cable systems (LPFF, HPFF, HPGF and XLPE) and serves as a source to all engineers by tying together specs and procedures from several TUCIG member utilities. Excerpts from other transmission industry documents and the writer's experience will supplement information from the utility documents.

Distribution Line Asset Management  
November 16-17

Transmission Line Asset Management  
November 16-17

Smart Grid  
November 13

\* Agenda is subject to change without notice

Hilton Tampa Downtown  
211 North Tampa Street  
Tampa, FL 33602  
+1-813-204-3000



All conference guests are eligible for a discounted rate of \$124 (USD) subject to availability. Simply mention "CEATI International" when reserving.



Thank you to our Sponsors:



CHANNELL

SIEMENS  
Ingenuity for life.

novinium



Osmose



SEAMS  
Building Analytic Capability



# Registration Form

## HV Cables Conference

Transition Joint Technology from HPFF to XLPE Cables

November 14-15, 2017 • Tampa, FL

Register online at  
[www.ceati.com/TD2017](http://www.ceati.com/TD2017)

### Your Information

Name	<input type="text"/>
Title	<input type="text"/>
Organization	<input type="text"/>
Street Address	<input type="text"/>
City, Province/State	<input type="text"/>
Country	<input type="text"/>
Postal/Zip Code	<input type="text"/>
E-mail	<input type="text"/>
Phone	<input type="text"/>
Fax	<input type="text"/>

### Payment Options

Visa   Mastercard 

Card No.	<input type="text"/>
Expiry Date	<input type="text"/> / <input type="text"/>
Signature	<input type="text"/>
Cardholder	<input type="text"/>

### Registration Fees & Discounts

- \$945 USD Standard Registration
- \$675 USD CEATI Participant Registration
- \$675 USD Speakers
- \$475 USD Academia/Session Chairs

\*TUCIG participating organizations may be eligible for a complimentary registration - contact the Program Coordinator for more information.

### Exhibit at the Cables Conference!

- \$2900 USD Booth Registration (includes 2 standard passes)
- \$3800 USD Silver Sponsor Booth (2 passes)
- \$695 USD Additional Exhibitor Passes  
Quantity: \_\_\_\_\_

**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. 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.

Completed registration forms can also be sent by **email** to [events@ceati.com](mailto:events@ceati.com)