



# TRANSMISSION AND SUBSTATION DESIGN AND OPERATION SYMPOSIUM

UNIVERSITY OF TEXAS  ARLINGTON

September 10 - 13, 2014 | Crowne Plaza Dallas

**2014**

CONFERENCE POST  
REPORT



# TRANSMISSION AND SUBSTATION DESIGN AND OPERATION SYMPOSIUM

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## MISSION

To promote the exchange of ideas and experience for the benefit of those people concerned with transmission and substation design and development.

## LEADERSHIP

The primary committee was comprised of The University of Texas at Arlington along with industry leaders including representatives from: Oncor Electric Delivery, CenterPoint Energy Houston, AEP, OG&E, Brazos Electric Power Cooperative, Lower Colorado River Authority, AEP-TCC, and Lone Star Transmission, LLC.



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## EVENT HIGHLIGHTS

Number of Attendees: 667  
Participants from 31 States and  
Canada  
Number of Exhibitors: 52

## PRESENTATION SUMMARY

Keynote Speaker: 1  
Breakout Sessions: 15  
Workshops: 3



Harve D. Hnatiuk, P.E.,  
F.NSPE - the 2014-15  
President of the National  
Society of Professional  
Engineers (NSPE).)





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## KEYNOTE SPEAKER

**Harve D. Hnatiuk, P.E., F.NSPE - the 2014-15 President of the National Society of Professional Engineers (NSPE).**

A member of NSPE since 1980, Mr. Hnatiuk has held many volunteer leadership positions with the Society including being a member of the Executive Committee, Board of Directors and House of Delegates. He has chaired NPSE's Dues and Billing Standardization Task Force, its Critical Infrastructure and Homeland Security Task Force, the 2013 and 2014 Conference Task Force (co-chair) and served as vice chair of its Legislative and Government Affairs Committee. In 2005 he was named an NSPE Fellow. He is also a longtime member of the Pennsylvania Society of Professional Engineers (PSPE), where he has been president of both PSPE and its Valley Forge Chapter. He was honored as PSPE's "Engineer of the Year" in 2009.

Mr. Hnatiuk is Vice President of Maida Engineering, Inc., a professional multi-discipline engineering firm founded in 1978. The company serves clients in all business sectors throughout the US.



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## BREAKOUT SESSIONS

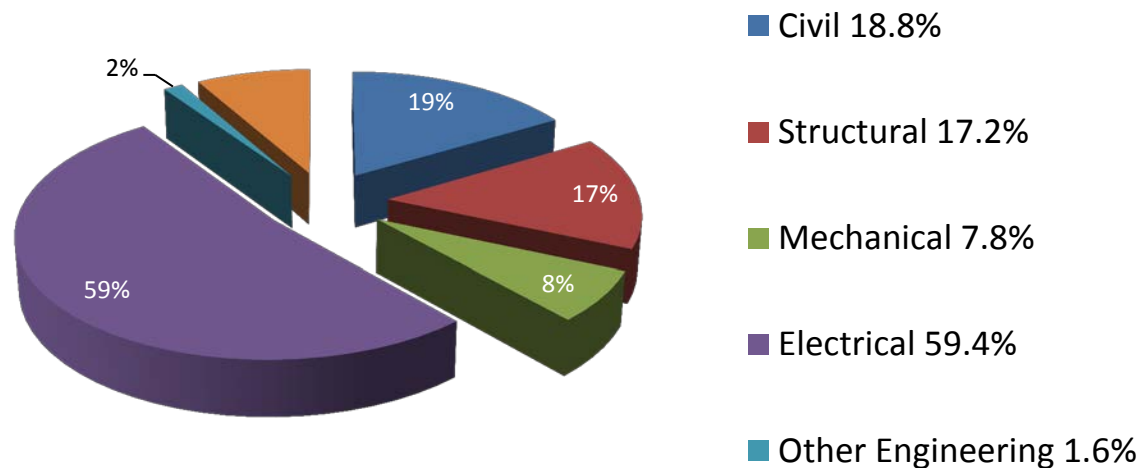
- Analysis of Fault Current Heating Effect for Optical Ground Wire Application
- Will the use of sUAS's ("Drones") in the United States Energize Inspection of Electrical Transmission Line Structures?
- A Risk-Based Approach to Stocking Spare Equipment
- Deploying Dynamic Line Rating to Increase T-line Capacity in West Texas
- Video Monitoring Solutions for Electric Utilities-Issues, Requirements and Examples
- 138kV Oil-Filled Underground Pipeline: Leak Detection, Failure and Repairs
- Overview Factors on Assessing Insulation Life
- Aeolian Vibration Dampers - Theory & Laboratory/Field Testing
- Application of HTLS Conductor for a 2400' River Crossing Span
- Ground-Based 3D Laser Scanning - A Practical Approach to Transmission & Substation Design
- Subsynchronous Resonance Risk in Power Systems (ERCOT Perspective)
- Siting Transmission Lines Adjacent to Underground Pipelines
- Understanding the High Voltage Circuit Breaker Nameplate
- A Comprehensive Approach to Current Transformers Field Diagnostics
- Transmission Line Lightning Protection and Reliability Review
- Reconductoring a 345kV Line Hot: A Project Experience
- Physical and Cybersecurity Requirements Converge to Create Complex Challenges for Utilities



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## 2014 SYMPOSIUM DEMOGRAPHICS







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## EXHIBITORS

Aerotec  
Aldridge Construction  
All-Pro Fasteners, Inc.  
American Wire Group  
Butler and Land, Inc.  
CBS Arcsafe  
Chain Electric Company  
Circuit Breaker Analyzer  
City Transformer Service Co.  
DIS-TRAN  
Doble Engineering  
Dynamic Ratings, Inc  
Electrical Consultants Inc.  
Elgin B. Robertson, Inc.  
Energy Reps  
Falcon Steel Co.  
Fugro Consultants, Inc.

FWT, LLC  
House Of Threads  
Hubbell Power Systems  
Irby  
JH Davidson & Associates, LLC  
K D Johnson, Inc.  
MasTec, Inc.  
Megger  
Mitsubishi Electric Power Products  
National Field Services  
Nolan Power Group  
Powell Industries  
Power Line Services, Inc.  
Power Solutions  
PPC Insulators  
Preferred Sales  
Reliapole

RFL Electronics  
ROHN Products, LLC  
Sabre Tubular Structures  
Sempco Surveying  
Shermco Industries  
Southwire Company  
SPX Transformer Solutions  
Surveying And Mapping, Inc. (Sam, Inc.)  
TAPP Steel Poles  
Techline  
Transmission Corridor Engineering, Inc.  
Trinity Meyer Utilities Structures, LLC.  
TRC Engineers  
UC Synergetic  
Utility Sales Agents  
Vacuum Interrupters  
Valmont Newmark



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## 2014 TSDOS







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## Advisory Board

Kevin C. Allen, P.E., Consulting Engineer, Oncor Electric Delivery

Reginald W. Comfort, Manager, Substation Projects,  
CenterPoint Energy Houston

Huntis Dittmar, P.E., Engineering Supervisor,  
Asset Performance & Reliability, LCRA

Matt Estrada, AEP

Tip Goodwin, P.E., Consulting Engineer, Oncor Electric Delivery

Joe Hazlewood, Technical Specialist, Oncor Electric Delivery

Stan Krause, Manager T- Line Engineering-Tulsa, AEP

Dr. Wei-Jen Lee, Director, Energy System Research Center,  
The University of Texas at Arlington

Steven W Myers PE, Mgr Transmission/Substation Engineering, OG&E

Larry Plemons, Supervisor, Civil Engineering,  
Brazos Electric Power Cooperative

Javier A. Sanchez, P.E. Supervisor, Engineering,  
Lower Colorado River Authority (LCRA)

Erich Schoennagel, Manager of Transmission Engineering for CenterPoint Energy

David Solis, Transmission Services Station Manager, AEP - TCC

David K. Turner, P.E., Project Director, Lone Star Transmission, LLC





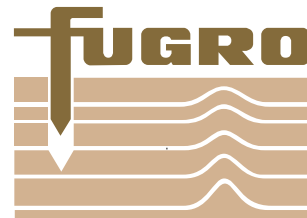
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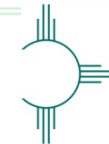
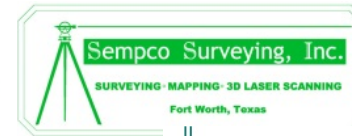
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