

2018 CIGRE Canada Conference – Calgary, Alberta

Table of Contents - Papers

- 007 – The Application of New Dielectric Rope Technologies to Live-Line Rescue & Escape
- 010 – An Assessment to Leverage Limited Availability of Operational Data to Improve Grid Performance through Asset Management Techniques
- 011 - Risk assessment and mitigation strategy for managing Ammonium Copper Arsenate (ACA) pole through bolts
- 012 - Innovative and Effective Method and System for Voltage Improvement, Power Quality and Reduction of Losses in Electrical Power Distribution
- 015 – A Supervisory Controller for a Grid Integrated Solar Power Plant that provides Fault Ride-Through Capability
- 017 - Case Study: Grid Enterprise Solution for capturing, storing and viewing essential data for non-EMS Operators
- 019 - Bridging the Gap - HVDC Overlay Grid, Canada’s Equalization Formula and Provincial Carbon Emissions
- 020 - Misconceptions and Misuse of Online Monitoring of HV Assets
- 021 - Guideline to Develop Low Frequency Dynamic Model Equivalents in Today’s Emerging Grids
- 022 - Automatic Control of Phase Shifting Transformers and its Coordination with Remedial Action Schemes
- 024 - Evaluation of Counterpoise through Impulse Fall-of-Potential Measurements
- 026 - Laser Scanning and Its Applications to Substation Design and Management
- 028 - Replacing Insulator Strings on Power Lines using Traditional Methods and Robotic Systems – The State of the Art
- 030 – Power Transformer from Asset Management
- 031 - Monitoring System for Underground MV Smart Distribution Grids
- 033 - Breaker TRV Capability Investigation for In-line Reactor Applications
- 034 – T&D Enginomics, Advanced Asset Management Frameworks

040 - RAS Modelling with RAS Coordination

042 - A Novel Placement Technique for Utility-Scale PV Solar Farm Grid Integration

046 - Development of \pm 500 kV HVDC WATL Structures and Foundations in Alberta

047 - The Evolution of Time Synchronization @ AltaLink

051 - Wide Area Real Time GMD Monitoring and Analysis using Synchro Phasor Technology

052 - A Practical Application of Probabilistic Asset Management Approach for Ageing Infrastructure Replacement and Investment Analysis

053 - Future Challenges for the Planning, Design and Operation of Utility Distribution Systems

056 - AltaLink's First Digital Substation with IEC61850 Process Bus Technology – A Design Overview

058 - Transformer condition evaluation and fleet ranking combining offline and online data

062 - Automatically generated dynamic equivalents for RTDS® applications

064 - Implication of WAN technology on Tele Protection systems

067 - Improved Model for Determining Total Power Loss in Transmission Line Conductors

070 - Market Mechanisms to Monetize Energy Storage – US Experience

075 - Application of Single Arm Voltage Source Converter for Tapping an LCC HVDC System

076 - Development of Wide Area Electricity Markets and the Means to achieve them

078 - State of the art resilience solutions for bypassing power transformers in case of contingencies, emergencies or maintenance

080 - Cybersecurity Good Practice: Not Just NERC CIP Compliance

083 - Impact of Electric Vehicles on Residential Secondary Distribution Systems

093 - Transformer Tank Vibration Model to Detect Winding Deformations

095 - Thickwood Hills Static VAR System – A Split Scope Approach

096 - Implementing Digital Substations – a stepwise approach to electricity grid digitization

097 - Application of Synchro Phasor Technology to Enhance Distribution System Monitoring, Automation and Operations – A Utility Deployment Approach

098 - Determining Residential Transformer Loading Thresholds Using Weather and Metering Data Analytics