

## Preliminary Agenda

### Thursday, February 28, 2019

**7:00AM Registration & Breakfast**

**7:30 – 7:45AM Welcome Remarks**

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**7:45 – 9:15AM IP/MPLS Panel**

#### Description Password

**Panelists:** Doug Barton, Principal Engineer – Southern Company  
Shaun Skidmore, Communications Principal Engineer – Idaho Power Company  
Todd Clark, Senior IT Architect – Duke Energy Corporation

**Moderator:** Lamont Hill, Director – Public Policy, Governmental Affairs - Oncor

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**9:15 – 10:15AM IEEE 802.16s – A Standard Built for Mission Critical Communications**

This session will provide an introduction and technical presentation of the newly released IEEE 802.12s standard. IEEE 802.16s is a narrow channel WiMAX standard which was a collaboration of utilities, manufacturers, UTC, EPRI, and the WiMAX Forum. The idea for the standard was first introduced at the UTC annual meeting in Atlanta in 2015 and after over two years of joint work and collaboration on the standard, it was ratified and published by IEEE in October 2017. It is a technology which provides a standard wireless technology solution for utilities and other critical infrastructure entities in any frequency band in channel sizes between 100 kHz up to 1.25 MHz.

**Speaker:** Kathy Nelson, Director of Technical Product Marketing and Industry Relations – Ondas Networks

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**10:15 – 10:30AM Networking Break**

**10:30 – 11:30AM UTC Leadership Address**

**Speaker:** Greg Angst, UTC Vice Chairman/CenterPoint Energy

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**11:30AM – 12:30PM Federal Advocacy Update**

**Speaker:** Bob Lockhart, VP of Cybersecurity, Technology and Research - UTC

## Region 7 2019 Meeting – Preliminary Agenda Cont.

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**12:30 – 1:00PM**                      **Region 7 Members Meeting. Core member only**

**1:00 – 2:45PM**                      **Networking Lunch w/ Exhibitors**

**3:00 – 4:00PM**                      **Utilities State of the Union Presentations**

Description Pending

**Speakers:**                              **Various Utility Attendees**

**4:00 – 5:00 PM**                      **GIS Documentation Modernization Presentation**

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Utilities operating a private network is not new, however with increasing size and complexity, managing and documenting these networks have become more crucial. Network documentation traditionally been maintained in a variety of systems: transmission Power Line Systems-Computer Aided Design and Drafting (PLSCADD) for the splice location and optical ground wire (OPGW) span information, substation record documentation for entry cable and conduit drawings, rack layouts and interior cable runs, and Excel spreadsheets for fiber assignments often combined with splicing diagrams in Visio or CAD. Using a geographic information system (GIS) to manage documentation allows utilities more accurate and complete network information, easier accessibility, improved usability, and reduced operations and maintenance costs.

**Speaker:**                              **Jarad Howard, Networks, Integration & Automation – Burns & McDonnell**

**5:00 – 6:30PM**                      **Networking Reception w/ Exhibitors**

### **Friday, March 1, 2019**

**7:30AM**                                  **Registration & Breakfast**

**8:30 – 9:30AM**                      **NOC Session**

Description Pending

**Speaker:**                              **CenterPoint Energy Rep TBD**

**9:30 – 9:45AM**                      **Networking Break**

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**9:45 – 10:45AM**                      **Understanding Protective Relay Communication Channel Requirements for Successful Packet Migration**

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This presentation examines the various protective relaying schemes that rely on a communications channel for reliable operation. With the current challenges of migrating from TDM to Ethernet transport systems, this presentation is designed to educate communication engineers on the importance of these circuits for the

protection of the power grid. It takes a close look at both directional comparison and current differential relaying schemes.

The presentation will explore the impact of channel latency, asymmetry and switch times as well as consider future communication requirements of protection schemes. This is an informative presentation that references protective relaying standards to enlighten the communication engineer on the significance of these communication channels.

**Speaker:** **Pedro Choconta, Applications Engineer – Schweitzer Engineering Laboratories**

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**10:45 – 11:45AM** **Modernizing the Network Synchronization Infrastructure**

As modern networks move away from traditional TDM and on to packet transport technologies the requirements and strategies for synchronization in the network have changed greatly. This 75-minute tutorial is intended to provide network engineers a better understanding of the latest synchronization technologies and strategies. Why "Precise Timing Protocol" is so much better than NTP will be made clear. The use of PTP for protection against local GNSS jamming will be discussed. PTP Telecom Profiles, PTP Power Profile, the Synchrophasor Initiative, Advanced spoofing detection, ePRTC will be discussed and more.

**Speaker:** **Chuck Perry, System Consultant – Oscilloquartz, a division of ADVA**

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**11:45AM – 12:15PM** **Utility Roundtable Discussion: Industry Trends & Technology Innovations**

**12:15 – 12:30PM** **Wrap-Up & Adjournment**

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