

Time	Summit A	Summit B	Summit C	Summit D
8:30 AM - 9:30 AM	<p><b>EATON - Energy Transition: MicroGrids and DER Integration</b></p> <p>A discussion on why to choose MicroGrids, what are the Market Drivers for doing one and the integrating DER and per standards. We will also cover day to day MicroGrid operation and choosing the solution that is best for your system.</p>	<p><b>SEDIVER - How to Specify Good Transmission Insulators</b></p> <p>This presentation will cover key specification requirements to make sure you get the quality insulator that you want for your Transmission system.</p>	<p><b>HANNON - Electric Motors Diagnosis and Preventing Failures</b></p> <p>An overview of common motor failures, troubleshooting and preventive maintenance for your system.</p>	
9:45 - 10:45 AM	<p><b>SATEC - Renewables, Risks and Rewards</b></p> <p>A discussion of the impact on the Electric Grid from renewable sources including the effects of residential solar generation as measured by a prominent city utility in Southern CA. The presentation will include a case study on residential solar production and the hourly bi-directional energy measurements surprisingly showing reliance on the local utility to provide power all day despite solar generation exceeding the load of the residence.</p>		<p><b>MEGGER - Online Partial Discharge Monitoring of MV Rotating Machines: PD Detection Standards</b></p> <p>For PD testing in rotating machines, IEEE 1434 and IEC 60034-27 standards offer valuable guidance for both offline and online techniques. Discussion of frequency ranges to enhance accuracy of the measurements.</p>	<p><b>CO7 - Breaker Reliability</b></p> <p>Insight on comparing MV outdoor circuit breakers, renewable applications and technical details for a gas (alternative gas) insulated MV outdoor substation breaker. Includes breaker construction, aggressive environments, operating mechanisms, vacuum breakers, CT's and protection, arc flash, seismic ratings, and ease of replacing existing breakers.</p>
11 AM - 12:00 Noon	<p><b>ERLPHASE - The Time is Now for DFR Monitoring of Distribution Substations</b></p> <p>With current complex Distribution systems which include DER's, Micro-Grids, and associated supporting equipment, DFR's can and will bring a level of high-speed, high-volume data acquisition, that will increase the ability to analyze and evaluate Distribution System disturbances.</p> <p>The time has come, for the use of DFR's in the Distribution Substation environment, both from a financial, as well as an operational, protection and planning perspectives. and the final paper.</p>	<p><b>SEFCOR - Substation Connections – Choosing Wisely</b></p> <p>The recommendations and pitfalls involved with substation connector choices will be discussed. Some topics included are corona considerations, bus expansion &amp; contraction, equipment connections, grounding connections, bus material, connection methods, and special design needs.</p>	<p><b>RMS ENERGY - Bus Maintenance in Action</b></p> <p>This presentation covers the important considerations of maintenance on bus duct systems, critical components of bus duct systems, and what to expect when planning bus duct maintenance. This presentation includes many pictures and case studies of real world bus maintenance issues and provides a great introduction to bus duct design, maintenance, and life extension for users.</p>	<p><b>VTC - Power Transformer Field Failure Modes, Investigation and Prevention</b></p> <p>During this presentation, we will cover the causes of power transformer field failures, incorporated with the transformer design, manufacturing and field monitoring processes. Investigation steps to find the true root cause of the failure, and ideas on preventing transformer failures in the field.</p>
<b>Lunch 12:00 - 1:00 PM (Raffles, Giveaways, Vendor Displays)</b>				
1 - 2 PM	<p><b>HENDRIX - Aerial Spacer Cable Collection Systems Bring Cost Savings to Solar Energy Facilities</b></p> <p>This presentation will briefly review the theory behind aerial covered conductor systems, review how and why those benefits may be applied to the numerous and demanding requirements of solar collection facilities, and what operational as well as economic benefits can be expected.</p>	<p><b>ERLPHASE - Sub-synchronous Resonance Protection Applied to Inverter Based Renewables</b></p> <p>Wind farms and PVs integrated into the transmission system can cause events in the that can cause in interactions between the natural frequencies of the power system and the controllers in the inverter system, resulting in sub-synchronous oscillation conditions leading to wide system damages. Conventional monitoring, control, and protection devices may not trigger, operate, or respond during these conditions. This White Paper provides a tutorial on these conditions and includes applicable solutions for protection and control engineers for this application.</p>	<p><b>APS - Batteries</b></p> <p>This presentation will cover the basic types and configurations of DC plants and batteries used in switchgear, telecom, and UPS applications.</p>	<p><b>MEGGER - Low Frequency PF Testing on a Transformer</b></p> <p>Looking into the alternatives of low frequency PF testing, and a discussion of the advantages of the ability to measure dielectric losses in a spectrum of frequencies from 1 Hz and up to 500 Hz to assess transformer insulation health.</p>