

CIGRE Grid of the Future™ Symposium - October 9th - 12th, 2023

The Westin - Kansas City at Crown Center

1 East Pershing Rd., Kansas City, MO 64108

| MONDAY October 9, 2023 | TIME | EVENT | EVENT TITLE (for Schedule) | Event Speaker[s] | Notes | ROOM NAME |
|---------------------------|---------------------------|--------------------------------|-------------------------------|--|--------------------|-----------------|
| | 7:00A - midnight | Office | | | | Westport |
| | 7:00A - midnight | AV Storage | | | | Independence |
| | 7:00 - 5:00 pm | Exhibits | | | | Century B Foyer |
| | 7:00A - 5:00P | CIGRE - Registration | | | | Century C Foyer |
| | 1:00P - 4:30P | NGN Tutorial | | Stewart Ramsay Professional Development / NGN Confirming | | Roanoke |
| | 5:30 - 7:30 P | WIE Girlscouts STEM Event | Power Your World | | | |
| | 5:00P - 5:30P | NGN Mentor Social | | | | Roanoke |
| 5:30P - 7:30P | CIGRE Sponsored Reception | Welcome Reception Sponsored by | | | Century B Ballroom | |

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|------------------|---------------------------|--|---|---|----------------------|
| 7:00A - midnight | Office | | | | Westport |
| 7:00A - midnight | AV Storage | | | | Independence |
| 7:00A - 5:30P | CIGRE - Registration | | | | Century C foyer |
| 7:00A - 7:45A | CIGRE - Breakfast Buffet | Breakfast Buffet | | | Century B Ballroom |
| 7:00A - 7:45A | Women in Energy Breakfast | Women in Energy Breakfast | Breakfast Sponsored by Mitsubishi | Speaker: Renita Molman, Burns & McDonnell | Liberty |
| 7:45A - 7:55A | CIGRE General Session | Welcome Address - (Chris Root) | Shawn Schukar – President of Ameren Transmission | | Century C Ballroom |
| 7:55A - 8:15A | CIGRE General Session | Keynote - Shawn Schukar, Ameren | Shawn Schukar – President of Ameren Transmission | | Century C Ballroom |
| 8:15A - 9:15A | CIGRE Panel Session | Distribution Innovation – Substation, Feeder and End-Use Customer | Moderator: John McDonald Chris McCarthy - S&C Electric, Jeff Smith - EPRI, Kim Winslow - Evergy | | Century C Ballroom |
| 9:15A - 9:30A | Morning Break | Morning Break | | | |
| 9:30A - 11:00A | CIGRE - Track 1 | Paper Session 1A - Moderator: Olivia Phillips - National Grid | N. Bilimoria, Dominion Energy T. Laughner, Lifescale Analytics T. Lin, Dominion Energy D.D. Williams, Burns & McDonnell | System Analysis, Grid Control and Reliability Technical Track Innovation in Protection and Automation Case Studies Session Drop In-Place Control Enclosure (DICE): Rolling the DICE on IEC 61850, N. Bilimoria - Dominion Energy , J. Deverick, J. Grimes, J. Schlank, S. Vaipavee, P. Vansant, K. Gray, R. Hunt, T. Grigg Open Fault Trace Tool - GTC Case Studies, T. Laughner - Lifescale Analytics , L. Hartzog, M. Browning, J. Lowery Analysis of Unexpected Line Distance Protection Operation Caused by Isolated Hydro Generation Unit, T. Lin - Dominion Energy , K. A. Zafar, M. J. Till Maintaining Precise Time for Power System Applications in the Event of Wide Area Loss of GPS, D. D. Williams - Burns & McDonnell , M. Elshafi, R. Jodrie, K. Fodero, P. Robertson, C. Huntley | Pershing Place North |
| 9:30A - 11:00A | CIGRE - Track 2 | Paper Session 1B - Moderator: Casey Murphy - Burns & McDonnell | K. Elkinson, Doble Engineering L. Stannis, Sharper Shape J. Till, University of Tennessee - Knoxville D. Ernstmann, Electric Power Research Institute (EPRI) | Advanced Technologies and Asset Management Technical Track AI, Digital Twins and the Case for Digital Adoption Session Condition Monitoring and AI in an Asset Management World, K. Elkinson - Doble Engineering , J. Beardsall, T. McGrail, S. Rhoads How Accelerating Trends in Transmission and Distribution (T&D) Make the Case for Digital Adoption, L. Stannis - Sharper Shape, K. McDermott A Review of Digital Twin Technology and an Approach for a Robust Digital Twin for Power Systems Applications, J. Till - University of Tennessee - Knoxville , C. Black, Y. Liu DER Integration and Control Using Existing Communication Infrastructure, D. Ernstmann - Electric Power Research Institute (EPRI) | Pershing Place South |
| 9:30A - 11:00A | CIGRE - Track 3 | Paper Session 1C - Moderator: Nick Skoff - Dominion Energy | E. Segerstrom, Dominion Energy Q. Shen, Stony Brook University A. Ovale, Electric Power Research Institute (EPRI) | System Analysis, Grid Control and Reliability Technical Track Power Quality and EMT Simulation Session Automated Frequency Scan Analysis Tool to Predict Resonant Frequencies at Points of Interconnection, E. Segerstrom - Dominion Energy , G. Ilunga, K. Vance Powering the Future: Harnessing Neural Dynamic Equivalence for Enhanced Power System Applications, Q. Shen - Stony Brook University , Y. Zhou, H. Zhao, P. Zhang, Q. Zhang, S. Maslennikov, X. Luo | Pershing Place West |

TUESDAY
October 10, 2023

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| | | | | | Benchmarking the GiCharm Tool against EMT Simulation, A. Ovalle - Electric Power Research Institute (EPRI) , R. Dugan, R. Arritt | |
| 9:30A - 11:00A | CIGRE - Track 4 | Paper Session 1D - Moderator: Brian Obermeier - Burns & McDonnell | G. McEachran, S&C Electric Company J. Lupton, POWER Engineers, Inc. T. Manna, Burns & McDonnell | | Advanced Technologies and Asset Management Technical Track Transformer Security and Asset Management Session The Evolution of Asset Management in the Electricity Sector, G. McEachran - S&C Electric Company Considerations for Residential Transformer Sizing Due to Electric Vehicle Adoption, J. Lupton - POWER Engineers, Inc. , C. Mielke, K. Bleak, S. Thomsson, J. Snodgrass, J. Shaffer Protecting Phase-Shifting Transformers: A Comprehensive Protection Approach, T. Manna - Burns & McDonnell , M. Hilaly | Pershing Place East |
| 11:00A - 11:15A | Break / Transition | Break / Transition | | | | |
| 11:15A - 12:30P | CIGRE - Sponsored Lunch | CIGRE - Sponsored Lunch | | | | Century B Ballroom |
| 11:15A - 12:30P | CIGRE USNC Executive Committee Lunch | CIGRE USNC Executive Committee Lunch | Chris Root, CIGRE USNC President | | | Liberty |
| 12:30P-12:45P | Break / Transition | Break / Transition | | | | |
| 12:45P - 2:15P | CIGRE NGN Paper Competition | CIGRE NGN Paper Competition | | | | Century C Ballroom |
| 2:15P - 2:30P | Afternoon Break | Afternoon Break | | | | |
| 2:30P - 4:00P | CIGRE - Track 1 | Paper Session 2A - Moderator: Jodie Lupton - POWER Engineers, Inc. | M. Shahidehpour, Illinois Institute of Technology S. Wang, Quanta Technology R. Anilkumar, Quanta Technology, LLC | | System Analysis, Grid Control and Reliability Technical Track Levelized Cost of Energy Supply, Benefit Analysis and Optimal Dispatch Session Levelized Cost of Energy Supply for Substantiating the Proliferation of Variable Generating Units in Puerto Rico, M. Shahidehpour - Illinois Institute of Technology , L. Afloabi, A. B. Nassif, D. Kushner, M. Lelic, S. Bahrarnirad Comparative Benefit Analysis of Meshed Offshore Wind Grid, S. Wang - Quanta Technology , R. Anilkumar Creating a Coordinated Planning Process - Resource, Transmission & Distribution Planning, R. Anilkumar - Quanta Technology, LLC , M. Mount | Pershing Place East |
| 2:30P - 4:00P | CIGRE - Track 2 | Paper Session 2B - Moderator: Caleb Jergensen - Burns & McDonnell | D. Ramasubramanian, Electric Power Research Institute (EPRI) L. Chebbo, Dominion Energy H. Chao, Quanta Technology, LLC W. Ren, Electric Power Research Institute (EPRI) | | System Analysis, Grid Control and Reliability Technical Track Recent Advances in Protection Session Islanding Procedures and Associated Impacts for Transmission Connected Inverter Resources, D. Ramasubramanian - Electric Power Research Institute (EPRI) Europe DAC , B. Graham, N. Blakanti, M. Patel, R. O'Keefe Simulation Models of Line Protection Incidents with Solar Power Generation, L. Chebbo - Dominion Energy , G. Alvarez, D. K. Ridenour Building a Hardware-in-the-Loop Testing Setup for Evaluating Relays Impacted by High Penetration of Inverter-Based Resources, H. Chao - Quanta Technology, LLC , Y. Hu, J. Holback, Z. Cheng, S. Narayanan, T. Nguyen, E.L. Selter, M. Razanousky An Approach for Screening Distribution System Ground Fault Overvoltage (GFOV) in the Presence of Inverter-based Resources, W. Ren - Electric Power Research Institute (EPRI) , D. Van Zandt | Pershing Place West |
| 2:30P - 4:00P | CIGRE - Track 3 | Paper Session 2C - Moderator: Morgan Sullenstrup - Burns & McDonnell | S. B. Subramanian, Quanta Technology, LLC D. Ramasubramanian, Electric Power Research Institute (EPRI) | | System Analysis, Grid Control and Reliability Technical Track Inverter-Based Resources (IBRs) Applications Session Evaluation of NERC Requirements for Inverter-Based Resources (IBRs), S. B. Subramanian - Quanta Technology, LLC , E. M. John, V. Singh, A. Zamani Screening and Identification of Critical Locations in the New England Power Network with High Percentage of Inverter Based Resources, D. Ramasubramanian - Electric Power Research Institute (EPRI) , S. Dutta, Q. Zhang, Q. Zhang, X. Luo, X. Fang, F. Ibrahim, J. Ploof A Multi-source Event Management Framework for Outage Detection and IBR Dynamic Performance Evaluation L. Zhu - Electric Power Research Institute (EPRI) , J. Koussourais, Y. Lu, P. Nieves | Pershing Place North |
| 2:30P - 4:00P | CIGRE - Track 4 | Paper Session 2D - Moderator: Connor Bowen - Burns & McDonnell | M. E. Ropp, Sandia National Laboratories C. Qi, Virginia Polytechnic Institute and State University K. Morrissey, Smarter Grid Solutions | | Distribution Technical Track Microgrid Applications Session Avoiding Asynchronous Connections of Adjacent Microgrids in Self-healing Power Systems, M. E. Ropp - Sandia National Laboratories , O. Lavrova, E. Silva Microgrids as an Affordable Resilience Source for Rural Communities, C. Qi - Virginia Polytechnic Institute and State University , L. A. Lee, C. Qi, C. C. Liu, W. Wills, J. Fincher, J. Cruise, P. Muhoro, K. Schneider, F. Tuffner, D. Ton | Pershing Place South |

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| | | | | F. Atwan, Schweitzer Engineering Laboratories, Inc. | Operationalizing Peak Shaving Optimization within The Lac-Megantic Microgrid, K. Morrissey - Smarter Grid Solutions , M. Jaggassar, D.-O. Goulet Reviser & FLISR Applications for More Resilient Microgrids, F. Atwan - Schweitzer Engineering Laboratories, Inc. | |
| 4:00P - 4:15P | Afternoon Break | Afternoon Break | | | | |
| 4:15P - 5:45P | CIGRE - Track 1 | Paper Session 3A - Moderator: Eric Sullentrup - Burns & McDonnell | | A. Qwabaian, Dominion Energy R. Conger, POWER Engineers, Inc. M. Jimenez-Aparicio, Sandia National Laboratories J. Wischkaemper, Texas A&M University | System Analysis, Grid Control and Reliability Technical Track Protection and Grounding Applications Session Assessment of Protection on Transmission Lines with Fixed Series Capacitors (FSC) using Hardware-in-the-Loop Testing, A. Qwabaian - Dominion Energy , A. Pincelli, A. Vance Optimizing Substation Grounding for Distribution System Faults, R. Conger - POWER Engineers, Inc. , R. Schaerer, J. Brown, A. Wilson Testing and Characterization of Fault Scenarios of a Hierarchical DC Microgrid for Residential Applications, M. Jimenez-Aparicio - Sandia National Laboratories , A. R. R. Dow, M. J. Reno, D. Bauer, D. Ruiz, B. Ward Discovering and Diagnosing Protection Anomalies on Distribution Systems, J. Wischkaemper - Texas A&M University , C. Benner, B. D. Russell, K. Manivannan | Pershing Place East |
| 4:15P - 5:45P | CIGRE - Track 2 | Paper Session 3B - Moderator: Malory Mamoni - Burns & McDonnell | | I. Alvarez-Fernandez, Electric Power Research Institute (EPRI) A. Sproul, RLC Engineering M. Hanestad, RLC Engineering M. Hanestad, RLC Engineering | Distribution Technical Track DER Hosting, Electrification Opportunities and CVR Schemes Session Electrification Opportunity on Distribution Systems: A Case Study, I. Alvarez-Fernandez - Electric Power Research Institute (EPRI) , J. Deboever, C. Metz Improving DER Hosting Capacity with Tie-Point Controllers and Smart BESS, A. Sproul - RLC Engineering , M. Hanestad, C. Murray, M. Arifullaman, H. Son, M. Kedis Unlocking Capacity in Imbalanced Distribution Circuits with Phase-EQ Technology, M. Hanestad - RLC Engineering , A. Sproul, C. Murray Modelling Dynamic CVR Schemes and DER Impacts, M. Hanestad - RLC Engineering , A. Sproul, J. Garfield, C. Gusk | Pershing Place West |
| 4:15P - 5:45P | CIGRE - Track 3 | Paper Session 3C - Moderator: Dustin Williams - Burns & McDonnell | | M. Gautam, Idaho National Laboratory A. Sadkovic, Quanta Technology, LLC B. Ruddell, Criticality Sciences, Inc. A. Mugueta, Avangrid | System Analysis, Grid Control and Reliability Technical Track Session Hydropower Resilience Database for Assessing Microgrid Formation Capability and Enhancing Power Grid Resilience, M. Gautam - Idaho National Laboratory , B. Poudel, S. Alam Enhancing Informed Decision-Making: Valuing System Upgrades through Resilience Curves, A. Sadkovic - Quanta Technology, LLC , S. Ma A Discussion on Resilience for Power Grids, B. Ruddell - Criticality Sciences, Inc. , A. Mouch, S. Ginsburg Electric Utility Executive Perspectives on Modern Grid Opportunities and Challenges, A. Mugueta - Avangrid , C. Root, D. Novosel, D. Elizondo | Pershing Place North |
| 4:15P - 5:45P | CIGRE - Track 4 | Paper Session 3D - Moderator: Maigha Fnu - Commonwealth Edison Co. | | G. DiAntonio, S&C Electric Company A. Lopez, Burns & McDonnell A. Pagnotta, Burns & McDonnell | Advanced Technologies and Asset Management Technical Track Major Weather Events, Decarbonization and Climate Change Session Quantifying the Impact of Major Weather Events using EIA Reliability Data, G. DiAntonio - S&C Electric Company Pipeline Considerations for New and Repurposed Pipelines: Conversion for Pure H2 Pipelines and Blended NG/H2 Pipelines, A. Lopez - Burns & McDonnell Effects of Decarbonization on Concrete Production and How Utilities can Embrace the Ensuing Innovation, A. Pagnotta - Burns & McDonnell | Pershing Place South |
| 6:00P - 10:00P | CIGRE Welcome Reception sponsored by Burns & McDonnell (WWI museum) | | | | | |

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|------------------|-----------------------------|---|---|--|--------------------|
| 7:00A - midnight | Office | | | | Westport |
| 7:00A - midnight | AV Storage | | | | Independence |
| 7:00A - 4:30p | CIGRE - Registration | | | | Century B Ballroom |
| 7:00A - 7:45A | CIGRE - Breakfast Buffet | Breakfast Buffet | | | Century B Ballroom |
| 7:00A - 7:45A | NGN - Breakfast Buffet | CIGRE NGN Breakfast Speaker | Mandy Olson, Burns & McDonnell | | Liberty |
| 7:45A - 8:15A | CIGRE General Session | Keynote Address | Leslie Duke, CEO Elect, Burns & McDonnell | | Century C Ballroom |
| 8:15 - 8:30 A | NGN Paper Competition Award | NGN Paper Competition Award Winner Announcement | NGN Vice Chair Paper Competition NGN Chair Moderator: Mariana Vaiman, V&R Energy | | Century C Ballroom |

WEDNESDAY
October 11, 2023

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|-----------------|---|---|--|---|----------------------|
| 8:30A - 9:30A | CIGRE Panel Session Damir Novosel Organizing | Blackouts: Past, Present, and Future | Michelle Blaise - Robert Cummings - Red Yucca Power Consulting, LLC, Damir Novosel - Quanta Technology, Chris Root - CIGRE USNC | | Century C Ballroom |
| 9:30A - 9:45 A | Morning Break | | | | |
| 9:45A - 11:15A | CIGRE - Track 1 | Paper Session 4A - Moderator: Michael Luechtefeld - Burns & McDonnell | A. Sadkovic, Quanta Technology, LLC B. Knowles, Burns & McDonnell E. Silva, Sandia National Laboratories | Distribution Technical Track Vegetation Management, Voltage Conversion and Self-healing Concept Session <i>Prescriptive Vegetation Management Framework Using High-Resolution Satellite NDVI Imagery for Resilience Planning: A Case Study in Puerto Rico</i> , A. Sadkovic - Quanta Technology, LLC, S. Rono <i>Strategies for Voltage Conversion Project Success</i> , B. Knowles - Burns & McDonnell, J. Chapman, M. Lahera <i>Demonstration of a Self-healing Power System Concept using Manufacturer-Specific Inverter Models</i> , E. Silva - Sandia National Laboratories, M. E. Rocco, O. Lavrova | Pershing Place West |
| 9:45A - 11:15A | CIGRE - Track 2 | Paper Session 4B - Moderator: Josh Sebolt - Burns & McDonnell | F. Janjua, Shemar Power D. Berta, Bekaert Corporation J. McCall, Lindsey Systems | Advanced Technologies and Asset Management Technical Track Overhead Lines Session <i>Electric Field Grading Design and Validation Tests of a Composite Insulated Cross-arm</i> , F. Janjua - Shemar Power, Y. Li <i>Overhead Conductor Efficiency Optimization using Steel Core</i> , D. Berta - Bekaert Corporation <i>Does Dynamic Line Rating Work without Line Sensor Feedback?</i> , J. McCall - Lindsey Systems, E. Rice, R. Bliss, R. Mohr | Pershing Place East |
| 9:45A - 11:15A | CIGRE -Track 3 | Paper Session 4C - Moderator: Katherine Inge - MPR Associates, Inc. | C. Bowen, Burns & McDonnell L. Zhu, Electric Power Research Institute (EPRI) F. Fachini, Dominion Energy | System Analysis, Grid Control and Reliability Technical Track Substation Improvements, Synchrophasors and Solar Farm EMT Models Session <i>Evaluating and Comparing Substation Threat Mitigation Tactics: Substation Improvements for a More Resilient Power Grid</i> , C. Bowen - Burns & McDonnell, P. Sombornyanon <i>Regional Inertia Estimation Using Ambient Synchrophasor Measurements</i> , L. Zhu - Electric Power Research Institute (EPRI), M. Elnasry, E. Farantatos, D. Ramasubramanian, P. Mitra, V. Singhvi, V. Alarabu <i>Development of PSCAD Solar Farm EMT Models Based on PSSE RMS Models: A Step-By-Step Guide</i> , F. Fachini - Dominion Energy, A. Pincelli, K. A. Vance | Pershing Place North |
| 9:45A - 11:15A | CIGRE -Track 4 | Paper Session 4D - Moderator: James Berger - POWER Engineers, Inc. | W. Wang, Electric Power Research Institute (EPRI), I. R. Trueblood, Commonwealth Associates, Inc. D. C. Prezioso, Pacific Northwest National Laboratory (PNNL) | Distribution Technical Track Distributed Energy Resources (DERs) Session <i>Benefits of Grid-Forming Distributed Energy Resources in Grid-Connected Scenarios</i> , W. Wang - Electric Power Research Institute (EPRI), A. Venkataramanan, A. Huque, B. D. Ramasubramanian, A. Mehri-Sani <i>Impacts and Mitigation of Distributed Energy Resources on Local Utilities</i> , I. R. Trueblood - Commonwealth Associates, Inc. <i>Towards Just and Equitable Coordination of Distributed Energy Resources</i> , D. C. Prezioso - Pacific Northwest National Laboratory (PNNL), J. Garbe, S. Bender, S. Barrows | Pershing Place South |
| 11:15A - 11:30A | Break / Transition | Break / Transition | | | |
| 11:30A - 12:45P | CIGRE - Sponsored Lunch | 100 | Speaker: Michel Augonnet, CIGRE President | | Century B Ballroom |
| 12:45P - 1:00P | Break / Transition | Break / Transition | | | |
| 1:00P - 2:00P | CIGRE Panel Session - WE | The Blurred Lines of T&D | Moderator, Jessica Lau, Xcel Energy, Energy Storage and Emerging Technologies Manager Aishwarya Chakravarthy, 1898 & Co. Eli Ntakou, Eversource Farnaz Farzan, Quanta Technology Danielle Croop, PJM | | Century C Ballroom |
| 2:00P - 2:15P | Afternoon Break | Afternoon Break | | | |
| 2:15P - 3:45P | CIGRE - Track 1 | Paper Session 5A - Moderator: Anthony Giacomoni - | T. Laughner, Lifescale Analytics R. C. Custer, OG&E Energy Corp. | Distribution Technical Track Detecting Anomalies in Distribution Systems Session <i>Using Receptacle-Based Sensors for Utility Fire Hazard Detection including Loose Neutrals</i> , T. Laughner - Lifescale Analytics, J. Anderson, R. Price <i>Keeping Up with the Landscape: Developing a Modern Alarm Philosophy for a Rapidly Changing Distribution Control Center</i> , R. C. Custer - OG&E Energy Corp., R. Hemmati, F. Ma, J. N. Jiang | Pershing Place |

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| | | | PJM Interconnection | M. Kezunovic, Texas A&M University | <i>Distribution Transformers Overloading Mitigation Using Smart Coordination Between PV Generation, Battery Energy Storage and EV Charging.</i> M. Kezunovic - Texas A&M University, M. Soleimani, A. K. Singh, P. K. Jha, M. Kumar | North |
| 2:15P - 3:45P | CIGRE - Track 2 | | Paper Session 5B - Moderator: Darren Campbell - Burns & McDonnell | H. Ballouz, Electric Power Engineers, LLC D. Nazemi, PJM Interconnection J. Lau, Xcel Energy | System Analysis, Grid Control and Reliability Technical Track Electricity Markets and Regulation Session <i>A Framework for Assessing Marginal Cost Pricing Through a System Reliability Lens - Is it Back to the Future?.</i> H. Ballouz - Electric Power Engineers, LLC <i>Exploring the Benefits of Demand Response in the PJM Wholesale Energy Market: A Cost-Benefit Perspective.</i> D. Nazemi - PJM Interconnection, A. Giacomoni <i>Exploring Customer Interoperability Pathways with the Utility and Grid Service Providers.</i> J. Lau - Xcel Energy, Y. Kenarangui, G. L. Poehls | Pershing Place West |
| 2:15P - 3:45P | CIGRE -Track 3 | | Paper Session 5C - Moderator: Austin Hall - Burns & McDonnell | M. A. Coble, Burns & McDonnell Q. F. Heaton, Burns & McDonnell N. Rochel, Burns & McDonnell | System Analysis, Grid Control and Reliability Technical Track Insulated Cables Session <i>Resilience of Underground Power Transmission: Viability Assessment and Future Strategies.</i> M. A. Coble - Burns & McDonnell <i>Similarities and Difference to Horizontal Directional Drilling Design and Construction Considerations in Gas Pipeline and Cable System Projects.</i> Q. F. Heaton - Burns & McDonnell, G. Garcia, B. Primm <i>A FEM Case Study of Cable Ampacity Versus Laying Depth and Time.</i> N. Rochel - Burns & McDonnell, B. C. Rutherford | Pershing Place East |
| 2:15P - 3:45P | CIGRE -Track 4 | | Paper Session 5D - Moderator: Josh Sebolt - Burns & McDonnell | J. R. Agüero, Quanta Technology, LLC V. Tyagi, Dominion Voltage, Inc. A. Hamdon, SUBNET Solutions Inc. | Distribution Technical Track Advanced Metering Infrastructure (AMI) Applications and Cybersecurity Session <i>Advanced Metering Infrastructure as a Key Program in LUMA Energy's Grid Modernization.</i> J. R. Agüero - Quanta Technology, LLC, D. G. Hart, A. Passo, L. Santilli <i>Maximizing Load Reduction Using AMI-Informed Emergency Voltage Reduction Ahead of Blackouts.</i> V. Tyagi - Dominion Voltage, Inc., S. J. Tyler, A. Maizooobi <i>15 Years Continuous Journey Securing and Managing Edge Devices.</i> A. Hamdon - SUBNET SOLUTIONS Inc., J. Atkins | Pershing Place South |
| 3:45P - 4:00P | Afternoon Break | | Afternoon Break | | | |
| 4:00P - 5:00P | CIGRE Panel Session | | Beyond the Burn: Solutions for Wildfires in the Power Sector | Moderator: Jamey Bertram, T&D General Manager, Burns & McDonnell Doug Dorr - EPRI Jeff Wischkaemper, Texas A&M University | | Century C Ballroom |
| 5:30P - 7:30P | NGN Sponsored Reception Invitation Only | | Keynote Speaker | Jessica Lau | Sponsored by Burns & McDonnell & POWER Engineers. (Confirmed) | Offsite |

| TIME | EVENT | | | | | ROOM NAME |
|-------------------|--|--|---|---|--|-----------------------|
| 7:00 am - 8:00 am | No Sponsored Breakfast - coffee provided | | | | | |
| 8:00A - 12:00P | Tour | | Evergy's Touchless Substation Tour | Chad Carsten: Director – Operations Technology, Evergy Joshua Stegman: Manager - Grid Automation, Evergy | Notes: PPE Required - Hard Hats, Safety Boots, 100% Cotton Clothing Max number: 40 Lunch Needs: Yes Bus Needs: Yes Room Needs: Yes, we need a bus to/from tour Description: Explore Evergy's touchless substation and learn how they are using cutting-edge technology and AI to minimize O&M spend and enhance maintenance efficiency. The Charlotte substation in downtown Kansas City showcases the deployment of exciting technology, including radar cameras and intelligent gauges to identify operations problems and trends. The technology is being used in collaboration with other business needs such as physical and cyber security threat detection. Private LTE communication enables device connectivity, and machine learning is being leveraged to facilitate trend pattern identification. Don't miss the incorporation of Spot the robot dog and its role in supporting the project! | Meet in Lobby for bus |
| 8:00A - 12:00A | Tutorial | | Analysis of Power Electronics-Based Transmission Technologies to Maximize Grid Utilization and Accelerate the Energy Transition | Carlos Borda, Smart Wires | Lunch Needs: Yes Bus Needs: No Room Needs: Yes, attendance is restricted to capacity of room Description: This tutorial will provide a M-SSSC technology overview and introduce the requisite modelling techniques for this technology. Firstly, the technical features of the M-SSSC devices will be reviewed, including the technical and physical specifications and existing network applications. Transmission planning experts will then review how to use simulation tools like PSS®E to incorporate Modular-SSSC. Key factors of M-SSSC integration, including dynamic performance, harmonic emissions, harmonic immunity, and protections will be reviewed. They will then model it over a sample base case to demonstrate how this technology is effective and synergistic with long-term infrastructure projects. Finally, a sample cost-benefit analysis will be conducted to holistically assess the benefits of the Modular-SSSC devices. Scoping and timing on the implementation of these types of projects will be reviewed after the modelling session. | Pershing Place North |
| 2:00P | Adjourn | | | | | |

THURSDAY
October 12, 2023