



2024 Spring General Meeting
 March 26th – 27th, 2024
 Hosted by NC State University
 Location: James B. Hunt, Jr. Library (Halls A-D)
 (Eastern Daylight Time)

Theme: “Innovative Approaches for Integrated T&D Modeling and Simulations”

Agenda

<u>Tuesday, March 26th, 2024</u>	Industry Advisory Meeting	
8:30 am	CLOSED MEETING- IAB Members Meeting Open to all attendees of companies that are Industry Members of CAPER	Drew Clarke IAB Chair Duke Energy
9:00 am	2024 Proposal Presentations	
	IAB Business items	
12:00 noon	Meeting adjourned	
<u>Tuesday, March 26th, 2024</u>	General Meeting	
12:00 - 1:00 pm	Registration	
1:00 - 1:15 pm	Welcome, Safety, Objectives of the Conference and In the News	Steve Whisenant CSC Chair Duke Energy
	Plenary Session	Steve Whisenant CSC Chair Duke Energy
1:15 - 1:45 pm	What is Driving the Need for Integrated T&D Modeling and Simulations	Eugene Moore Duke Energy
	Session I – Hybrid Approaches for Integrated Power Grid Planning and Operations	Ning Lu Center Co-Director NC State
1:45 - 2:15 pm	MIDAS_PHIL testing bed showcases 100% renewable for Island Grid	Ningchao Gao NREL (Virtual)
2:15 - 2:45 pm	The Real Time Digital Simulation Resources and Applications at SCE	Joshua Park SCE (Virtual)

2:45 - 3:15 pm	Enabling the Grid of the Future: Insights from NYPA's Digital Twin Initiative, Integrated T&D Models, and Co-Simulation Strategies	Victor Paduani NYPA
3:15 - 3:45 pm	DM-03: Integrated Grid Operations System for Controlling and Monitoring IBR	Johan Enslin Clemson/NCSU
3:45 - 4:00 pm	BREAK	
	Session II - CAPER Sponsored Sr. Design Project	Steve Whisenant CSC Chair Duke Energy
4:00 - 4:30 pm	UNC Charlotte Team	Steve Whisenant
4:30 - 5:00 pm	NC State Team	Mesut Baran
5:00 - 7:00 pm	Reception - Poster Session - Senior Design, Base & Enhancement Projects	
Wednesday, March 27th, 2024	General Meeting	
7:30 - 8:00 am	Registration and breakfast	
8:00 - 8:15 am	Highlights from yesterday and objectives for today	Steve Whisenant CSC Chair Duke Energy
	Session III – Approaches for Integrated T&D Planning and Operations	Becca Rye CAPER IAB Vice-Chair Dominion Energy
8:15 - 8:35 am	Utility Perspectives on Modern Distribution Planning	Carl Wilkins Quanta Technology
8:35 - 8:55 am	T&D Analysis: Current Tools and Roadmap based on NERC Requirements	Marco Salazar Siemens
8:55 - 9:15 am	Paving the way for Next Generation Grid Planning: Finding Strength in a Future without Inertia	Rahul Chakraborty Dominion Energy
9:15 - 9:35 am	EHP-09-PG: DER Protection Guidelines and Settings	Johan Enslin

		Clemson/NCSU
9:35 - 9:55 am	EHP-08-PU: Comparative Power Flow - Phase III	Valentina Cecchi UNCC/NCSU
9:55 - 10:15 am	BREAK	
	Session IV – Driving Trends in T&D Modeling and Simulations	Ramtin Hadidi Center Co-Director Clemson
10:15 - 10:45 am	Interfacing Techniques for T&D Co-simulation	Karthikeyan Balasubramaniam ANL (Virtual)
10:45 - 11:15 am	Driving Energy Transitions on T&D Systems: From Challenges to Use cases	Vahraz Zamani Siemens - PTI
11:15 - 11:45 am	PD-05: Inertia Estimate Using Synchrophasor Measurements	Ramtin Hadidi Clemson/UNCC
11:45 - 12:15 pm	PD-06: A Machine Learning based Automated Load Model Parameterization Tool	Ning Lu Center Co-Director NCSU/Clemson
12:15 - 1:00 pm	LUNCH	
	Session V – Future Planning and Operational Challenges	Ning Lu Center Co-Director NC State
1:00 - 1:30 pm	Adaptive Protection Methods for Microgrids	Mohammad Razeghi Jahromi ABB
1:30 - 2:00 pm	Multi-layered Resilient Microgrid Networks	Jishnudeep Kar Hitachi Energy
2:00 - 2:30 pm	Strategic Portfolio Optimization of Offshore Wind and Marine Energy Resources along the North Carolina Coastline	Anderson de Queiroz NC State University
2:30 - 3:00 pm	MRA-02-PD: Impacts of Managed Charging and Other Innovative Rates for Electric Vehicle Charging on Utility Load and the Grid System	Peter Schwarz UNCC/NCSU
3:00 - 3:15 pm	Closing and Next Meeting – October – Nov 2024 hosted by UNC Charlotte – TBD	Steve Whisenant CSC Chair Duke Energy
3:15 pm	Meeting adjourned	