

NASPI

Welcome!

**NASPI Work Group Virtual Meeting
April 13, 2021**

11:00AM – 5:30PM Eastern Time

www.naspi.org


Keynote Speaker

Michael Pesin, Deputy Assistant Secretary,
Office of Electricity's Advanced Grid Research
& Development, U.S. Department of Energy



Agenda - April 13, 2021

All Times Eastern Time Zone

Eastern Time	Tuesday, April 13, 2021
11:00 – 11:10 am	Welcome & Introductions: Jeff Dagle (PNNL)
11:10 – 11:25 am	Keynote: Michael Pesin, Deputy Assistant Secretary, Advanced Grid Research and Development, U.S. Department of Energy
11:25 – 11:45 am	NASPI Updates (15 minutes)
	Session # 1 – Time Synchronized Techniques to Monitor / Mitigate Inverter Effects on Power Systems
	Moderator: Matt Rhodes
11:45 – 12:45 pm	<ul style="list-style-type: none"> PMU Based Inertia Monitoring - Evangelos Farantatos (EPRI) Identifying Oscillations Injected by Inverter-Based Solar Energy Sources in Dominion Energy's Service Territory using Synchrophasor Data and Point-on-Wave Data – Chen Wang (Dominion Energy) Effective Area Inertia: Stability Challenges, Continuous PMU-based Measurement and Machine Learning Forecasting – Stuart Clark (GE) SETO Project – Sakis Meliopoulos (Georgia Tech)
12:45 – 1:45	Long break
1:45 – 2:05 pm	VR Energy – Marianna Vaiman 
	Session # 2 High-resolution sensors to characterize the transient behavior of inverter-based resources and other fast-acting phenomena
2:05 – 2:25 pm	Using High-Resolution Time-Stamped Data to Improve System Operations – Richard Kirby (SEL)
2:25 – 2:45 pm	A Fractional Cycle Digital Fourier Transform PMU Applied to Power Inverter Event Detection - Jose Eduardo (CEPEL, Brazil)

2:45 – 2:50 pm	Break – 5 minutes
2:50 – 3:20 pm	A Synchronized Self-Contained Line-Powered Continuous Point-on-Wave Recorder – John Patterson (ASU)
3:10 – 3:30 pm	Transient and CPOW monitoring for renewable generation connections – Steven Blair (Synaptec)
3:30 – 3:50 pm	Facilitating Inverter-based Generation Integration with High-resolution Data - Gefei "Derek" Kou (Dominion Energy)
3:50 – 3:55 pm	Break – 5 minutes
	Session # 3 Utilizing measurements to enhance the accuracy of inverter-based resource models
3:55 – 4:15 pm	Using DQ-Domain Admittance Measurements to Tune Inverter Models - Lingling Fan (University South Florida)
4:15 – 4:35 pm	Improving the accuracy of modeling/simulation solvers to better understand the impact of inverter-based resources and other fast dynamics on power grids – David Schoenwald (SNL)
4:35 – 4:55 pm	Calculate Center-of-Inertia Frequency and System RoCoF Using PMU Data – Shutang "Steve" You (University of Tennessee)
4:55 – 5:30 pm	Poster Sessions being held in WebEx breakout rooms: <ul style="list-style-type: none"> Locate the Source of Resonance-Involved Forced Oscillation in Power Systems Based on Mode Shape Analysis – Shutang "Steve" You (UTK) Computationally Efficient Synchrophasor Algorithms for Ultra-High-Rate Phasor Measurements – Lingwei "Eric" Zhan (ORNL)

**NASPI would like to say “THANK YOU”
to the following Silver level partners for their support.**



NASPI Poster Session

- 4:55 to 5:30pm EDT today in the WebEx Breakout Rooms
 - “Locate the Source of Resonance-Involved Forced Oscillation in Power Systems Based on Mode Shape Analysis”
 - Shutang “Steve” You (University of Tennessee, Knoxville)
 - “Computationally Efficient Synchronphasor Algorithms for Ultra-High-Rate Phasor Measurements”
 - Lingwei (Eric) Zhan (Oak Ridge National Laboratory)

IEEE-NASPI Oscillation Source Location Contest

- Cosponsored by NASPI and the IEEE Oscillation Source Localization Task Force
 - Organized to advance the electric power industry's ability to respond appropriately when oscillations occur
 - Registration is now open. The contest will run April 12 to June 11. For additional details please visit the NASPI website at <https://www.naspi.org/node/890>

Upcoming Meetings of Interest to the NASPI Community

- DOE Transmission Innovation Symposium May 19-20, 2021 (https://pnnl.zoomgov.com/webinar/register/WN_BWHujl9ORfGPoV72WQdGWw)
- IEEE 2021 International Conference on Smart Grid Synchronized Measurements and Analytics – SGSMA 2021, May 25-27, 2021 (<https://www.sgsma2021.org/>)

NASPI Webinar Series

www.naspi.org/webinars

- May 26 – Digital Voltage and Current Sensors – Farnoosh Rahmatian
- June 30 – System Inertia Monitoring - CRSTT
- July 28 – FOA 1861 Awardees report out on Machine Learning and Artificial Intelligence – Sandra Jenkins
- August 25 – Human-Machine Teaming – Eric Andersen

Save the Date

The next NASPI Work Group Meeting will be held:

October 5-7, 2021

The NASPI Leadership Team is evaluating either a hybrid or virtual meeting



North American SynchroPhasor Initiative

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