



## NASPI Work Group Meeting and Vendor Show

Embassy Suites by Hilton Minneapolis Downtown

12 Sixth Street South

Minneapolis, Minnesota, 55402

Plymouth Ballroom

April 15-16, 2025 (In Person)

The North American SynchroPhasor Initiative (NASPI) Work Group Meeting and Vendor Show will be held in Minneapolis, Minnesota, April 14-15, 2025, at Embassy Suites by Hilton Minneapolis Downtown. Our agenda will feature invited speakers and technology partners demonstrating their latest hardware and software. There are presentations from companies and individuals who have deployed or are exploring emerging applications associated with time-synchronized measurements.

Our distinguished **keynote speaker** is Jordan Bakke, Director of Strategic Insights and Assessments at Midcontinent Independent Systems Operator (MISO).

NASPI will also be hosting a poster session along with the reception the evening of April 14, 2025.

**Registration** is open! Early-bird [registration](#) will be \$590 for regular attendees and \$175 for students until March 15, 2025. Rates will then increase to \$690 for regular attendees and \$275 for students.

We're excited to have our partners showcase their innovations at the upcoming NASPI event. We've reserved a special area at the venue for your booth, giving you a great opportunity to feature your technologies to NASPI participants as detailed in our [Partnership document](#). Additionally, you'll have the chance to give a 5-minute flash talk before the breakout sessions on Tuesday, providing a quick spotlight on your offerings.

(Revised 4/14/25)

<b>Tuesday, April 15, 2025</b>	
8:00 – 9:00 am	<b>Registration and coffee</b>
9:00 – 9:05 am	Welcome, Introductions, and Logistics Review: Jim Follum, PNNL
9:05 – 9:25 am	Keynote Speaker: Jordan Bakke, Director of Strategic Insights and Assessments at Midcontinent Independent Systems Operator, MISO
9:25 – 9:40 am	NASPI Update – Jim Follum, PNNL
<b>Session 1 – Power System Dynamics and Contingency Analysis</b>	
9:40 – 10:00 am	Utilization of Synchrophasors for Monitoring System Disturbances at CAISO – David Daigle, California ISO
10:00 – 10:20 am	Field Deployment and Demonstration of an Adaptive Wide-Area Oscillation Damping Controller at the Italian Power Grid – Lin Zhu, Electric Power Research Institute
10:20 – 10:40 am	<b>Break – 20 Minutes</b>
10:40 – 11:00 am	Scalable Implementation and Deployment of RTLSE and RTLSE-based Contingency Analysis for Transmission Systems – Mohammadreza Maddipour Farrokhifard, GE Vernova
<b>Session 2 – Synchro-Waveform Applications</b>	
11:00 – 11:20 am	Investigating Power System Oscillations Using Waveform (POW) Data – Wilsun Xu, University of Alberta

11:20 – 11:40 am	Next-level WAMS Based on Synchro-waveform to Address Emerging Stability Issues – Sungyun Choi, Korea University
11:40 – 12:00 pm	Advancing Power Quality Awareness with High-Resolution Continuous Waveform Recording – Jared Bestebreuer, Schweitzer Engineering Laboratories
12:00 – 1:00 pm	<b>Lunch</b>
	<b>Session 3 – Inertia Estimation</b>
1:00 – 1:20 pm	Real-time Inertia Estimation in Kauai Island Using Probing-based Method: Field Implementation and Demonstration – Xinlan (Cici) Jia, University of Tennessee, Knoxville
1:20 – 1:40 pm	Active and Localized Measurement of Grid Inertia – Alexandra von Meier, Independent Consultant, and Antonio Enas, Reactive Technologies
	<b>Session 4 - Technology Partner Flash talks (5 minutes talk)</b>
1:40 – 2:20 pm	<ul style="list-style-type: none"> <li>• MathWorks</li> <li>• Schweitzer Engineering Laboratories</li> <li>• Data Society</li> <li>• Electric Power Group</li> <li>• Meinberg</li> <li>• Oscilloquartz</li> <li>• PingThings</li> </ul>
2:20 – 2:40 pm	<b>NASPI Awards Ceremony</b>
2:40 – 3:00 pm	<b>Break – 20 Minutes</b>
	<b>Session 5 - Task Team Breakout Sessions</b>
3:00 – 5:00 pm	Control Room Solutions Task Team (CRSTT) – Turquoise Conference Room Mike Nugent and Kliff Hopson <ul style="list-style-type: none"> <li>• Dominion Energy's WAMS Deployment for Operations – Samantha Whalen, Electric Power Group and Emmanuel Oleka, Dominion Energy</li> <li>• Discussion on a SAR proposal for real-time stability monitoring – Kevin Ostash, Manitoba Hydro</li> </ul>
	Data & Network Management Task Team (DNMTT) – Sapphire Conference Room Dan Brancaccio <ul style="list-style-type: none"> <li>• A Synchrophasor Stream Processing Pipeline Architecture for Near-Real-Time Applications – Daniel Villegas, University of Manitoba</li> <li>• Computer Scientist's Critique of MPLS, IEC 61850, and STTP – Dave Bakken, Washington State University</li> </ul>
	Distribution Task Team (DisTT) – Topaz Conference Room Panos Moutis and Bryce Johanneck
	Engineering Analysis Task Team (EATT) – Plymouth Ballroom Urmila Agrawal and Lin Zhu <ul style="list-style-type: none"> <li>• Setting Thresholds for the RMS-Energy Oscillation Detector – Jim Follum, Pacific Northwest National Laboratory</li> <li>• Update and discussion on the IBR Performance Response and Analytics Monitoring (IPRAM) Task Force – Priya Mana, Pacific Northwest National Laboratory</li> <li>• Discussion on oscillation report update</li> <li>• Open discussion on potential new topics</li> </ul>
5:00 – 7:30 pm	<b>NASPI Reception, Vendor Show</b>

**Wednesday, April 16, 2025**

8:00 – 9:00 am	<b>Registration and coffee</b>
	<b>Session 6 – NASPI Task Team Updates (10 minutes each) Panel Session</b>
9:00 – 9:50 am	<ul style="list-style-type: none"> <li>• CRSTT – Michael Nugent and Kliff Hopson</li> <li>• DNMTT – Dan Brancaccio</li> <li>• DisTT – Panos Moutis and Bryce Johanneck</li> <li>• EATT – Urmila Agrawal and Lin Zhu</li> </ul>
	<b>Session 7 – Organization Updates (10 minutes each)</b>
9:50 – 10:40 am	<ul style="list-style-type: none"> <li>• IEEE PSRC/PSCCC – Yi Hu</li> <li>• NERC SMWG – Clifton Black</li> <li>• CIGRE C4/C2.62 – Evangelos Farantatos</li> <li>• IEEE Synchro-Waveform Task Force – Hamed Mohsenian-Rad and Jhi-Young Joo</li> <li>• IEEE Forced Oscillation Task Force – Farrokh Aminifar</li> </ul>
10:40 – 11:00 am	<b>Break – 20 minutes</b>
	<b>Session 8 – Utility Success Stories</b>
11:00 – 11:20 am	Inverter-Induced Forced Oscillation Source Location Estimation Using Synchrophasors: SRP Case Study – Lin Zhu, EPRI
11:20 – 11:40 am	Beyond Oscillations: Atypical Responses from a Real-World Solar PV Plant – Chetan Mishra, Dominion Energy
11:40 – 12:00 pm	Power system monitoring status of Korea based on PMU data and application – Minhan Yoon, Kwangwoon University
<b>12:00 – 1:00 pm</b>	<b>Lunch – 1 hour</b>
1:00 – 1:15 pm	Formation of the Role-Based Synchrophasor Training Task Force – Clifton Black, NERC SMWG Chair, and Eric Andersen, Pacific Northwest National Laboratory
	<b>Session 9 – Timing, Protocols, and Data Management</b>
1:15 – 1:35 pm	Low Earth Orbit Time Sourcing- Resilient alternative to GPS for critical timing – Rick Knea Oscilloquartz
1:35 – 1:55 pm	Overview of the IEEE Standard 2664: “IEEE Standard for Streaming Telemetry Transport Protocol (STTP)” – Ritchie Carroll, Grid Protection Alliance
1:55 – 2:15 pm	Complementary Timing in a Transmission Utility Environment – Carol Larvick, Pacific Northwest National Laboratory
2:15 – 2:35 pm	Third-Party Sensor Data as a Service – Aaron Wilson, Oak Ridge National Laboratory
2:35 – 3:00 pm	<b>Break 25 minutes</b>
	<b>Session 10 – IBR Analysis</b>
3:10 – 3:30 pm	Bayesian Optimization Approach for DER Dynamic Model Calibration – Pavel Etingov, Pacific Northwest National Laboratory
3:30 – 3:50 pm	Real-Time Inertia and System Strength Measurement and Intelligence for Improving Control Room Operations and Grid Reliability – Neeraj Nayak, Electric Power Group
	<b>Session 11 – Advanced Applications</b>
3:50 – 4:10 pm	Protecting and Monitoring Transmission Lines with Enhanced Power Flow – Daniel L. Ransom, GE Vernova
4:10 – 4:30 pm	Synchrophasor-based Power Flow and Contingency Analysis for Dominion Energy Power Grid – Sebastian Martinez-Lizana, Electric Power Group, and Angel Gonzalez-Vera, Dominion Energy
4:30 – 4:45 pm	Closing remarks, open discussion, next steps – moderated by Jim Follum
4:45 pm	<b>Adjourn</b>

NASPI would like to say  
"THANK YOU"  
to the following partners for their support

### Gold Partners



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