



## NASPI Work Group Meeting and Vendor Show

Radisson Hotel Salt Lake City Downtown

215 West South Temple Street

Salt Lake City, Utah, 84101

April 16-17, 2024 **(In Person)**

The North American SynchroPhasor Initiative (NASPI) Work Group Meeting and Vendor Show will be held in Salt Lake City, Utah, April 16-17, 2024, at the beautiful Raddison Hotel Salt Lake City 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 Branden Sudduth, Western Electricity Coordinating Council (WECC) Vice President, Reliability Planning and Performance Analysis.

On April 16, 2024, NASPI will host a reception and a poster session.

April 17, 2024, there will be a NASPI-NERC Synchrophasor Data Analytics Workshop organized by Jim Follum (PNNL). If you are wanting to attend just this workshop, there is no charge. When you register, there is an option for just the workshop, please follow the instructions and let us know if you have any questions. For those of you who will be attending the whole meeting, you will see the workshop as a selection when you register. Please let me know if you have any questions.

**Early Bird Registration is [Open](#) until March 15th!** The *early bird* [registration](#) fee is **\$590** for regular attendees and the **\$100** for students. After March 15, the rates will increase to \$690 and \$175 respectively.

EPRI has a [block of rooms](#) for this event. Please use this [link](#) to secure your room. Cutoff date for room block is March 27th. If you have any issues making reservation, please email [naspi@pnnl.gov](mailto:naspi@pnnl.gov).

**NASPI Partners:** NASPI is very much looking forward to having our Partners present in Salt Lake City, Utah. We will have space at the Radisson Hotel inside the main meeting room for vendor setups. This gives our attendees easy access to interact with our partners. Please review the Partnership [document](#); these options will be available during the registration process above. After you register, Sherry Kowalski will be in touch with you regarding the details of shipping, setup, etc.

### Draft Agenda (02/28/24)

<b>Tuesday, April 16, 2024 (Local Time)</b>	
8:00 - 9:00 am	<b>Registration and coffee</b>
9:00 - 9:05 am	Welcome, Introductions, and Logistics Review: Jeff Dagle (PNNL)
9:05 - 9:25 am	Keynote Speaker: Branden Sudduth, WECC Vice President, Reliability Planning and Performance Analysis
9:25 – 9:45 am	NASPI Update – Jeff Dagle (Pacific Northwest National Laboratory)
<b>Session 1 Linear State Estimation</b>	
9:45 – 10:05 am	Update on PMU-based Power Network Analysis Applications at SDG&E – Robin Manuguid (SDG&E) and Marianna Vaiman (V&R Energy)
10:05 – 10:25 am	Linear State Estimation for Improving Grid Reliability and Resiliency at TVA - Neeraj Nayak (Electric Power Group) Jonathan Sides (TVA)

10:25 – 10:45 am	Machine Learning Based State Estimation for PMU-Unobservable Transmission Systems – TVA Case Study – Evangelos Farantatos (Electric Power Research Institute)
10:45 - 11:00 am	<b>Break – 15 Minutes</b>
	<b>Session 2 Modeling and Monitoring Generation Resources</b>
11:00 - 11:20 am	Analysis of Oscillation in RE Complex of Indian Power System – TBD (Grid Controller of India Limited)
11:20 - 11:40 am	Validation of IBR equivalent plant level PSCAD model using Synchrophasor measurements – Minnakuri Venkateswara Rao (Grid Controller of India Limited)
11:40 - 12:00 pm	Field Demonstration of an Automated Generator Evaluation Tool at BPA – Jim Follum (Pacific Northwest National Laboratory)
12:00 – 1:00 pm	<b>Lunch</b>
	<b>Session 3 Synchronized Waveforms in the Distribution System</b>
1:00 – 1:20 pm	Continuous Streaming of Synchro-waveforms: Field Experiments and Use Cases – Hamed Mohsenian-Rad (University of California, Riverside)
1:20 – 1:40 pm	Supplying Ubiquitous Distribution Grid Continuous Point-on-Wave Enabling a Wholistic Model of Grid Behavior - Scott L. Caruso (Gridmetrics)
1:40 – 2:00 pm	Case Study of Building Loads Using Continuous Time-Synchronized Waveform Measurements - Richard D Kirby (Schweitzer Engineering Laboratories, Inc.)
	<b>American-Made Challenge</b>
2:00 – 2:10 pm	Digitizing Utilities Prize Round 2 – Sandra Jenkins (DOE)
	<b>Session 4 Technology Partner Flash talks (5 minutes talk)</b>
2:00 – 2:40 pm	<ul style="list-style-type: none"> <li>• MathWorks - Graham Dudgeon</li> <li>• Grid Protection Alliance</li> <li>• Powerside</li> <li>• Schweitzer Engineering Laboratories</li> <li>• V&amp;R Energy</li> <li>• Open</li> <li>• Open</li> <li>• Open</li> </ul>
2:40 – 3:00 pm	<b>Break – 20 Minutes</b>
	<b>Session 4 Task Team Breakout Sessions</b>
3:00 – 5:00 pm	Control Room Solutions Task Team (CRSTT) - James Kleitsch and Mike Nugent
	Data & Network Management Task Team (DMTT) - Dan Brancaccio
	Distribution Task Team (DisTT) - Dan Dietmeyer and Panos Moutis
	Engineering Analysis Task Team (EATT) - Evangelos Farantatos and Matthew Rhodes
<b>5:00 - 7:30 pm</b>	<b>NASPI Reception, Vender Show, &amp; Poster Session</b>

<b>Wednesday, April 17, 2024 (Local Time)</b>	
8:00 - 9:00 am	<b>Registration and coffee</b>
	<b>Session 5 NASPI Task Team Updates (10 minutes each) Panel Session</b>
9:00 – 9:50 am	<ul style="list-style-type: none"> <li>• CRSTT - James Kleitsch and Mike Nugent</li> <li>• DNMTT - Dan Brancaccio</li> <li>• DisTT - Dan Dietmeyer and Panos Moutis</li> <li>• EATT - Evangelos Farantatos and Matthew Rhodes</li> </ul>
	<b>Session 6 Organization Updates (10 minutes each)</b>
9:50 – 10:25 am	<ul style="list-style-type: none"> <li>• IEEE - Yi Hu</li> <li>• IEEE PES Analytic Methods for Power Systems (AMPS)</li> <li>• Task Force - Hamed Mohsenian-Rad, Ph.D., IEEE Fellow</li> <li>• NERC SMWG - Clifton Black</li> </ul>

	• EIDSN - T1212BD
10:25-10:45	<b>Break – 20 minutes</b>
	<b>Session 7 Control Room Experience and Applications</b>
10:45 – 11:05am	BPA Use of Synchrophasors in the Control Room – Daniel Goodrich (Bonneville Power Administration)
11:05 – 11:25 am	Dominion Energy’s Synchrophasor-Based Energy Management System Project – Synchrophasor Power Flow - Horacio Silva Saravia (Electric Power Group)
11:25 – 11:45 pm	Real-Time Dynamic Security Assessment of Bulk Power Exchange in the Brazilian Interconnected System Using PMUs – Arthur Mouco (Operador Nacional do Sistema Eletrico)
11:45-12:05 pm	Bridging the Gap – Synchrophasor Technology in Realizing the Smart Grid - Qiang “Frankie” Zhang (ISO New England)
<b>12:05 – 1:05 pm</b>	<b>Lunch – 1 hour</b>
	<b>Session 8 Inertia Estimation and Monitoring</b>
1:05 - 1:25 pm	Probing-based Real-time Inertia Estimation Tool Implementation – Yilu Liu (University of Tennessee) Xinlan (Cici) Jia (University of Tennessee)
1:25 – 1:45 pm	Automatic Inertia Monitoring and Data Logging System – Azizul Hilmi Zulkifli (Tenaga Nasional Berhad, Malaysia)
	<b>Session 9 Data Management and Sharing</b>
1:45 – 2:05 pm	CIM Integration for WAMS at NYISO – Dan Ilse (NYISO) Frank Carrera (Electric Power Group)
2:05 – 2:25 pm	Continuous Oscillography Waveforms from the Substation to the Cloud – TJ Purcell (Dominion Energy)
2:25 – 2:45 pm	Utility Data Sharing Risk and Economics Assessment Framework/synchrophasor data networking, architecture, archiving, and other supporting technologies – Eric Andersen (Pacific Northwest National Laboratory)
<b>2:45 – 3:00 pm</b>	<b>Break - 15 minutes</b>
	<b>NASPI-NERC Synchrophasor Data Analytics Workshop – Jim Follum</b>
3:00 – 4:45 pm	<b>Details Coming Soon</b>
4:45pm	Closing remarks, open discussion, next steps – moderated by Jeff Dagle
5:00 pm	<b>Adjourn</b>

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

### Gold Partners



### Silver Partners

