



North American SynchroPhasor Initiative Working Group Meeting October 17-18, 2012

**Westin Buckhead Hotel
3391 Peachtree Rd., NE
Atlanta GA 30326**

This NASPI work group meeting will feature reports and updates on the synchrophasor-related Smart Grid Investment Grant and Demonstration Grant projects funded under the American Reinvestment & Recovery Act, and five synchrophasor research projects funded by DOE program funds. There will be three technical sessions at this meeting, addressing GPS timing system vulnerabilities and options, data communications and data quality for synchrophasor networks, and the prospects for sustaining synchrophasor technology investments after the ARRA grant funding expires.

There will be a \$200 registration fee to cover meeting costs, refreshments and lunch on the two meeting days; the fee for students is \$75. There will be a late fee of \$100 added for registrations after October 2 and a charge of \$50 for processing refunds. The registration link is <https://payment.nerc.net/naspi/naspi.aspx>.

The NASPI hotel discount rate expired after September 25. You can make a hotel reservation by calling 800-937-8461 (ask for the **NASPI** rate) or book on-line at <https://www.starwoodmeeting.com/StarGroupsWeb/booking/reservation?id=1112307682&key=5AA40>.

NASPI will be hosting a tutorial on IEC 61850, the newly adopted synchrophasor data communication interoperability standard, on the afternoon of October 16. All NASPI Work Group attendees are welcome to attend the tutorial as well, but you must register in advance at <http://www.nerc.net/meetingregistrations/Committee.aspx?meetingdate=10/16/2012&meetingtype=NASPI%20IEC>. The announcement and agenda for this tutorial will be posted on the NASPI website (www.naspi.org).

Draft Agenda (October 10, 2012)

Wednesday, October 17, 2012		
7:30 - 8:00 am	Registration, refreshments, and networking	
8:00 - 8:10 am	Welcome, introductions, and logistics review	Jeff Dagle (PNNL) Alison Silverstein (NASPI)
8:10 - 8:25 am	Welcoming keynote	Scott Henry (SERC)
8:25 - 8:35 am	NERC update and comments	Herb Schrayshuen (NERC)
8:35 - 8:45 am	NASPI Project Manager's update	Alison Silverstein (NASPI)

8:45 - 9:00 am	DOE intro	Phil Overholt (DOE)
9:00 - 10:20 am	SGIG presentations <ul style="list-style-type: none"> • ATC (Jim Kleitsch) • PJM (Bill Walker) • New York ISO (Kathleen Dalpe) • Duke (Megan Vutsinas) 	
10:20 - 10:40 am	Break (refreshments and networking)	
10:40 – 12:10	GPS Technical session 1 – GPS issues and alternatives <ul style="list-style-type: none"> • GPS spoofing and vulnerabilities • Alternatives to using GPS for time-keeping and time synchronization • Issues to be addressed 	<ul style="list-style-type: none"> • Alison Silverstein (moderator) • Roberto Piacentini (National Instruments) • Carol Hawk (DOE) • Jeff Dagle (PNNL) • Greg Zweigle (Schweitzer) • Magnus Danielson (Net Insights) • Mitch Narins (FAA)
12:10 - 1:10 pm	Lunch (provided)	
1:10 - 3:10 pm	SGIG presentations <ul style="list-style-type: none"> • ISO-NE (Dave Bertagnolli) • MISO (Kevin Frankeny) • Manitoba Hydro (Tony Weekes) • WECC (Vickie Van Zandt and Bridge Energy Group) • PG&E (Vahid Madani) • CCET SG Demo (Milton Holloway) 	
3:10 - 3:25 pm	Break (refreshments and networking)	
3:25 - 6:00 pm	Task Team break-out sessions	
6:00 - 7:30 pm	Reception	

Thursday, October 18, 2012

7:30 - 8:00 am	Refreshments and networking	
8:00 - 8:45 am	Task Team Report-outs	
8:45 – 8:55 am	Keynote	Pat Hoffman (DOE)

8:55 – 10:20 am	<p>Technical session 2 – Where do we go from here with phasor technology? Sustaining the synchrophasor projects after the ARRA money runs out...</p> <ol style="list-style-type: none"> 1. What does success look like for synchrophasor technology? How should we be using synchrophasor technology in 5 and 10 years? 2. Based on where we are today, can we get there from here? What are the successes thus far? What are the challenges and impediments? 3. What value has your organization realized from using phasors? Any specific successes or improvements due to phasor technology? 4. What are your company's plans for phasor technology post-SGIG? What are your priorities? Will you make more phasor technology investments? Why or why not? 5. Would phasor technology be where it is today w/o the SGIG grants? 6. What synchrophasor topics require further research? 	<ul style="list-style-type: none"> • Pat Hoffman (DOE) • Alison Silverstein (NASPI) • ATC • CCET • Duke • MISO • NYISO • PJM • Southern • WECC
10:20 - 10:35 am	Break and refreshments	
10:35 – 12:20	<p>DOE-funded Research Projects</p> <ul style="list-style-type: none"> • Georgia Tech (Dr. Sakis Meliopolis) • Washington State (Dr. Mani Venkatasubramanian) • EPRI (Dr. Kai Sun) • CIEE (Lloyd Cibulka) • Virginia Tech (Dr. Virgilio Centeno) 	
12:20 – 1:15 pm	Lunch (provided)	
1:15 – 2:30 pm	<p>Technical session 2 – Communications and data quality issues</p> <ul style="list-style-type: none"> • What are appropriate design goals for phasor data and communications system quality? • What are appropriate system designs to achieve production-grade delivered data? • What performance monitoring is required for production-grade phasor data results? 	<ul style="list-style-type: none"> • Mahendra Patel (PJM), moderator • Dan Brancaccio (Bridge Energy Group) • Magnus Danielson (Net Insight) • Scott Staples (MISO) • Vahid Madani (PG&E) • Jim Liu (PJM)
2:30 pm	Meeting adjourns	