

Monday, March 19, 2018

# Conference Schedule

12:00 - 6:00 pm	Exhibitor Move-In	
4:00 - 8:00 pm	Registration Open	Grand Foyer
6:00 - 7:00 pm	Opening Keynote - Presented by Charles Gay, DOE	Cataract Room Sponsor:
7:00 - 9:00 pm	Welcome Reception	Grand Foyer Sponsor:



Tuesday, March 20, 2018

7:00 - 8:00 am	Continental Breakfast	Event Center/Exhibit Hall Sponsor:	
7:00 am - 6:00 pm	Conference Registration	Grand Foyer	

CLASSROOMS	Tubman	Schoelikopf	Governor's Amphitheatre	Whitney	Hennepin	Porter	DeVeaux	Red Jacket	Olmsted
8:00 - 9:30 am	Optimizing your Solar Proposal for the 2018 Tax Bill: an Interactive Session <i>Aurora Solar, Inc.</i>	Moving Towards Microflashing™ <i>SolarRoofHook</i>	Energy Storage - Battery Bank Sizing, Care & Troubleshooting <i>Rolls Battery Engineering</i>	Designing Commercial Projects with XGI <i>Yaskawa/Solectria Solar</i>	Advanced Ground Mount and Pitched Roof – Design & Installation Best Practices <i>IronRidge</i>	StorEdge Use Cases, Installation, and Profile Programming <i>SolarEdge Technologies</i>	Solar and Roofing <i>CertainTeed Solar</i>	Single Axis Trackers for Ground Mount Installations <i>NEXTracker</i>	Introduction to Sungrow's 1000 & 1500 Volt String Inverter Solutions <i>SunGrow North America</i>

9:30 - 10:00 am	MORNING BREAK	Event Center/Exhibit Hall Sponsor:	
-----------------	---------------	------------------------------------	--

CLASSROOMS	Red Jacket	Grand Ballroom I	Grand Ballroom II	Cataract
10:00 - 12:00 pm	<b>Data Acquisition, Energy Monitoring and Fleet Management Platforms</b> Sponsored by: Moderator: Andrew Truitt, Distributed Resource Ventures Invited Panel: Jonas Villalba - naak, Chris Hinton - Onmidian, Eric Baller - RadianGEN, Ava Gibson - Blue Planet Energy	<b>Major updates in PV codes and standards</b> Sponsored by: Moderator: Rebekah Hren, Solar Energy International Invited Panel: Isaac Opalinsky, Sunpower, James Cormican - RBI Solar Inc. Brian Mehalic - Solar Energy International	<b>Case studies – Energy Storage and Rule 21 Advanced Inverter Functions</b> Sponsored by: Moderator: Kyle Bolger, Blue Planet Energy Invited Panel: Terance Harper - sonnen, Inc., Emily Hwang - Yaskawa Solectria Solar, Blair Reynolds - SMA, Jason Bobruk - SolarEdge, Wes Kennedy - Fronius	<b>Selling More Solar – the Role of Financing</b> Sponsored by: Moderator: Christine Owens, BayWa r.e.

12:00 - 1:30 pm	NETWORKING LUNCH	Exhibit Hall Sponsor:	
-----------------	------------------	-----------------------	--

CLASSROOMS	Tubman	Schoelikopf	Governor's Amphitheatre	Whitney	Hennepin	Porter	DeVeaux	Red Jacket	Olmsted
1:30 - 3:00 pm	Solar Bonding, Grounding, and Wire Management Best Practices <i>Burndy, LLC (Wiley)</i>	What is UL1741-SA, California Rule 21 and HECO Rule 14H, Why Should You Care, and What To Do About It <i>OutBack Power Technologies</i>	YCI1000 Quad-Module, native three-phase macro-inverter solution for 208 and 480 service with revenue grade production and consumption monitoring <i>APsystems</i>	How to Boost Your Residential Sales, Close More Deals & Manage Projects using Software <i>Solargraf</i>	Magnum Energy presents: Designing and programming large residential battery backup and off grid PV systems <i>Magnum Energy</i>	Be More Competitive Through Lean Solar Installation <i>Unirac, Inc.</i>	Solar Roof Talk - Live! Quick Mount PV	Advanced System Design with HelloScope <i>Folsom Labs</i>	Simplified Design and Installation with the IQ 7/7+ and the IQ Combiner+ <i>Enphase Energy</i>

3:00 - 3:30 pm	AFTERNOON BREAK	Event Center/Exhibit Hall Sponsor:	
----------------	-----------------	------------------------------------	--

CLASSROOMS	Red Jacket	Grand Ballroom I	Grand Ballroom II	Cataract
3:30 - 5:30 pm	<b>Structural Considerations for PV Systems</b> Sponsored by: Moderator: Jeff Spies, Quick Mount PV Invited Panel: Dustin Haddock - S-5! Marc Lopata - Azimuth Energy	<b>Rapid Shutdown Requirements and Solutions</b> Sponsored by: Moderator: Ward Bower, Ward Bower Innovations, LLC Invited Panel: Ben Castillo - Innovative Solar Inc. Matt Paiss - Int'l Association of Fire Fighters Jason Bobruk - Solar Edge Rebekah Hren - Solar Energy International	<b>Energy Storage Options – System Design and Battery Chemistries</b> Sponsored by: Moderator: Catherine Kelso Invited Panel: Ezra Auerbach - Discover Battery Bryan Whitton - Darfon Electronics Corp. Terance Harper - Sonnen Inc. Steve Higgins - Rolls Battery Engineering	<b>Improving system ROI through Best Practices in Solar PV System Design, Installation, Monitoring, and O&amp;M</b> Sponsored by: Moderator: Rudy Saporite, (IBTS) Institute for Building Technology and Safety Invited Panel: John Doerr - APsystems, Brian Mehalic - Solar Energy International, Chad Medcraft - PVT Consulting, Rue Phillips - 365 Pronto

5:30 - 8:30 pm	NETWORKING RECEPTION/DINNER - Event Center/Exhibit Hall	Sponsor:	
----------------	---	----------	--

7:00 - 9:00 pm	Jeff Spies – “Solar Roots – The Pioneers of PV”	Grand Ballroom I
----------------	---	------------------

● = PVIP, PVTS “JTA” ● = PVIP, PVTS “Elective” or “Non Elective” ● = NEC “National Electric Code” ● = Building and/or Fire Code (BFC)

Wednesday, March 21, 2018



# Conference Schedule

7:00 - 8:00 am Continental Breakfast Event Center/Exhibit Hall Sponsor: ENPHASE

7:00 am - 6:00 pm Conference Registration Grand Foyer

CLASSROOMS	Tubman	Schoelkopf	Governor's Amphitheatre	Whitney	Hennepin	Porter	DeVeaux	Red Jacket	Olmsted
8:00 - 9:30 am	NEC and Fronius Compliance Fronius, USA	Setting-up Solar + Storage Systems for Self-consumption and Time of Use Applications OutBack Power	YC600 Dual-Module, multi-phase micro-inverter solution for reactive power control (RPC) with revenue grade production and consumption monitoring APsystems	Moving Towards Microflashing™ SolarRoofHook	Photovoltaic Performance Monitoring with Solar-Log? Solar-Log	New SolarEdge products in 2018 SolarEdge Technologies	Morningstar's Inverter-Charger for Off-Grid Power & Backup/UPS Morningstar Corporation	Sizing and installing the sonnen eco energy storage system sonnen, Inc.	Simplified Design and Installation with the IQ 7/7+ and the IQ Combiner+ Enphase Energy
	●●	●●	●●	●●	●●	●●	●●	●●	●●

9:30 - 10:00 am MORNING BREAK Event Center/Exhibit Hall Sponsor: ENPHASE


CLASSROOMS	Red Jacket	Grand Ballroom I	Grand Ballroom II	Cataract
10:00 - 12:00 pm	<b>Basic Requirements &amp; Commissioning Steps for Residential PV Systems</b> Sponsored by: <b>ABB</b> Moderator: Steve Higgins, Rolls Battery Engineering Invited Panel: Ryan Stankevitz - Magnum Energy Roy Butler - Midnite Solar Claude Barker - ABB	<b>UL 2703 – PV System Bonding/Grounding and Fire Classification</b> Sponsored by: <i>Rolls</i> Moderator: Catherine Kelso Invited Panel: Jeff Spies - Quick Mount PV Dustin Haddock - S-5! Todd Ganshaw - Unirac Matt Paiss - Int'l Association of Fire Fighters	<b>Connecting Business Strategy to NABCEP Key Job Tasks</b> Sponsored by:  Moderator: Boaz Soifer, BayWa r.e. Solar Systems, LLC Invited Panelist: Anna Bautista, GRID Alternatives Michael Antinore, Kasselman Solar Robert Parker, Cape Fear Solar Systems Chad Cate, Sullivan Solar	<b>Community Solar Industry Overview and Insights</b> Sponsored by:  Moderator: Andrew Truit, Distributed Resource Ventures Invited Panel: Tim Sears - GRID Alternatives Luke Forster - NYSEDRA Vito Greco - Elevate Energy Michelle Moore - Groundswell
	●●	●●●	●	●●

12:00 - 1:30 pm NETWORKING LUNCH Event Center/Exhibit Hall Sponsor: ENPHASE

CLASSROOMS	Tubman	Schoelkopf	Governor's Amphitheatre	Whitney	Hennepin	Porter	DeVeaux	Red Jacket	Olmsted
1:30 - 3:00 pm	Panasonic High Efficiency Solar and Storage Solutions Panasonic	Battery 101 – Flooded vs. AGM vs. GEL Trojan Battery	Energy Storage – Battery Bank Sizing, Care and Troubleshooting Rolls Battery Engineering	Many Ways to Proof the Roof and Stand the Land with SunModo Racking SunModo Corp.	Tell the whole story! How to add value to your PV sale by including consumption monitoring eGauge Systems	ABB Solar Product Technology ABB	Rail-less PV mounting system for asphalt pitched roofs, Code and best practices with Roof Tech Roof Tech, Inc.	Designing and Implementing Battery-Based Solar Systems Schneider Electric	Virtual Central Inverter Architecture: Utilizing Sungrow String Inverters for Utility-Scale Installations SunGrow North America
	●●	●●	●●	●●	●●	●●	●●	●●	●●

3:00 - 3:30 pm AFTERNOON BREAK Event Center/Exhibit Hall Sponsor: ENPHASE









CLASSROOMS	Red Jacket	Grand Ballroom I	Grand Ballroom II	Cataract
3:30 - 5:30 pm	<b>Calculating Payback in a Post NEM Market</b> Sponsored by: ENPHASE Moderator: Jeff Spies, Quick Mount PV Invited Panel: John Berdner - Enphase Corey Garrison - Southface Solar Joe Messner - Sun Valley Solar Solutions	<b>Presenting and Designing a System with Storage Options</b> Sponsored by: <b>MAGNUM</b> Moderator: Kyle Bolger, Blue Planet Energy Invited Panel: Adam Gerza - Energy Toolbase, Wes Kennedy - Fronius, Alan Santos-Buch - Magnum Energy	<b>Performance Issues? Causes and Solutions to O&amp;M Problems</b> Sponsored by: <b>Discover</b> Moderator: Don Warfield, Ameresco Solar Invited Panel: John Wohlgemuth - PowerMark Corporation, Ward Bower - Ward Bower Innovations, Eric Daniels - Suncycle USA, Jeff Everett - Discover Battery	<b>Worker Safety</b> Sponsored by: <i>Rolls</i> Moderator: Brian Mehalic, Solar Energy International Invited Panel: Roger Williams - Solar Energy International Bob Hattier - Alternative Currents Ben Castillo - Innovative Solar, Inc.
	●●	●●	●●	●●

5:30 - 8:30 pm NETWORKING RECEPTION/DINNER Event Center/Exhibit Hall Sponsor: 

● = PVIP, PVTS "JTA" ● = PVIP, PVTS "Elective" or "Non Elective" ● = NEC "National Electric Code" ● = Building and/or Fire Code (BFC)

Thursday, March 22, 2018

# Conference Schedule

7:00 - 8:00 am		Continental Breakfast		Event Center/Exhibit Hall		Sponsor: 	
7:00 - 9:00 am		Conference Registration		Grand Foyer			
<b>CLASSROOMS</b>	<b>Grand Ballroom I</b>	<b>Cataract</b>	<b>Governor's Amphitheatre</b>	<b>Grand Ballroom II</b>			
8:00 - 11:30 am	<b>2017 National Electric Code (NEC)</b> Sponsored by:  Ryan Mayfield - Renewable Energy Associates ●●●●	<b>Battery System Design</b> Sponsored by:  Kyle Bolger - Blue Planet Energy and Rebekah Hren - Solar Energy International ●●	<b>PV Pricing and Economics</b> Sponsored by:  Michael Bishop and Connor English - PVBid ●●	<b>PV Systems Maintenance and Trouble Shooting</b> Sponsored by:  Brian Mehalic - Solar Energy International and Roger Williams - Solar Energy International ●●			
9:30 - 10:00 am		MORNING BREAK		Event Center/Exhibit Hall		Sponsor: 	
11:30 am - 1:00 pm		NETWORKING LUNCH		Event Center/Exhibit Hall		Sponsor: 	
1:00 - 6:00 pm		Exhibitor Move Out					
<b>CLASSROOMS</b>	<b>Grand Ballroom I</b>	<b>Cataract</b>	<b>Grand Ballroom II</b>	<b>Porter/DeVeaux</b>			
1:00 - 4:30 pm	<b>2017 National Electric Code (NEC)</b> Ryan Mayfield - Renewable Energy Associates ●●●●	<b>Battery System Design</b> Kyle Bolger - Blue Planet Energy and Rebekah Hren - Solar Energy International ●●	<b>PV Pricing and Economics</b> Michael Bishop, and Connor English, PVBid ●●	<b>PV Systems Maintenance and Trouble Shooting</b> Brian Mehalic and Roger Williams, Solar Energy International ●●			
2:30 - 3:00 pm		AFTERNOON BREAK		Grand Foyer		Sponsor: 	
4:30 pm Conference Adjournment - Thank You for Attending NABCEP's 7th Annual CE Conference. Have A Safe Journey Home!							

● = PVIP, PVTS "JTA"   ● = PVIP, PVTS "Elective" or "Non Elective"   ● = NEC "National Electric Code"   ● = Building and/or Fire Code (BFC)

<b>PV Installation Professional Recertification Requirements</b> 6 Hours Specific to the NEC Electric Code 6 Hours Specific to the JTA (Job Task Analysis) 6 Hours PV Technical or Non- Technical of which <b>2 hours must be Building and/or Fire Code</b>
<b>PV Technical Sales Recertification Requirements</b> 12 Hours Specific to the JTA (Job Task Analysis) 6 Hours PV Technical or Non-Technical
<b>PV System Inspector Recertification Requirements</b> 8 Hours Specific to the NEC Electric Code
<b>PV Associate</b> 12 Contact Hours
<b>Technical Trainings = 1.5 CEUs each</b> <b>Panel Sessions = 2.0 CEUs each</b> <b>Thursday, Full Day Class = 6.0 CEUs each</b>



## THE APP FOR NABCEP'S CONFERENCE IS HERE!

NABCEP's CE Conference is going mobile with an event app! We teamed up with CrowdCompass to build an app that will make this year's experience a lot more valuable for our attendees, exhibitors, and speakers. This app includes networking, schedules, social media and much more in the palm of your hand. Please check your registration e-mail account for information on downloading the app.