



## PROGRAM

### PHOTON's 3<sup>rd</sup> PV SAFETY Conference on Feb. 1 – ALL ABOUT SYSTEM SAFETY – FROM COMPONENTS, INSTALLATION AND OPERATION TO SUDDEN SWITCH-OFF IN THE EVENT OF A FIRE

**9:00 - 9:10**

#### CONFERENCE OPENING

##### Chairpersons:

- **Anne Kreutzmann**, PHOTON Magazine, USA
- **Tim Sears**, Grid Alternatives, USA

##### Invited speakers

**9:10 - 11:00**

#### FUNDAMENTALS - SAFETY FIRST?

##### VIEWS FROM THE SOLAR SECTOR, BANKS, AND INSURERS

- **Anne Kreutzmann**, PHOTON Magazine, USA  
»Solar product failure and recalls – case studies«
- **Larry Sherwood**, SolarABCs & Sherwood Associates, USA  
»Fundamentals for safe PV power generation«
- **Troy Dalbey**, UpSolar  
»Safety vs.cost – view of a fully leading Chinese module supplier«
- **Peter Wilcox**, Travelers, USA  
»Insuring PV systems«
- **Matt Scullin**, New Resource Bank, USA  
»Safety requirements for bankable PV projects«

**11:00 - 11:30**

#### Coffee Break

**11:30 - 13:00**

#### CORE SYSTEM COMPONENTS –

##### CHOOSING THE RIGHT PARTS TO BE ON THE SAFE SIDE

- **Juan Suarez**, UniRac, USA  
»Mounting structures«
- **Ward Bower**, Sandia, USA  
»Inverters«
- **John Wohlgemuth**, NREL, USA  
»How can we make PV modules safer«
- **Martina Siebmans**, PHOTON Lab, Germany  
»Wires and connectors –  
take-aways from PHOTON's surveys and tests«

**13:00 - 14:00**

#### Lunch

**14:00 - 15:30**

#### SYSTEM OPERATION –

##### SAFE AND WITH HIGH PERFORMANCE

- **Bill Brooks**, Brooks Engineering, USA  
»Designing high-quality solar systems«
- **Karl Riedlinger**, Solar City, USA  
»Construction safety – installing PV securely and inexpensively«
- **John Berndner**, SolarEdge, USA  
»What's needed for safe operation of rooftop PV systems«
- **Paul Grana**, Tigo, USA  
»Overview on alarm system technology to prevent theft«

**15:30 - 16:00**

#### Coffee Break

**16:00 - 17:45**

#### NEW STANDARDS, CODES AND TECHNOLOGIES – HOW TO MAKE PV SAFER

- **Chris Flueckiger**, UL, USA  
»Beware of arcs: The new UL subject 1699B DC arc-fault  
circuit protection test«
- **Bill Brooks**, Brooks Engineering, USA  
»Grounding of PV systems – why doing without makes PV safer«
- **Matt Paiss**, San Jose Fire Department, USA  
»Progress in PV fire safety – first milestones reached, many  
tasks remaining«
- **Adrian Haering**, SMA, Germany  
»Current state of discussions in Europe – considered risks and  
possible measures for improving safety«
- **Greg Madianos**, UPVI / Solarbridge, USA  
»UPVI – a universal standard interface for smart modules«

**17:45 - 18:30**

#### PANEL DISCUSSION:

##### HOW THE NEXT NATIONAL ELECTRIC CODE (NEC 2014) SHOULD LOOK TO PROVIDE MAXIMUM PV SAFETY