

Preliminary AGENDA ⁽⁵⁾

8th SOPHIA PV-Module Reliability Workshop, September 4 - 5, 2018

Venue: University of Ljubljana, Faculty of Electrical Engineering, Slovenia

Tue 4 th	Topic	Speaker (Company)
08:30-09:00	Registration	
09:00-09:40	Welcome	
	a) Welcome	Marko Topic, University of Ljubljana
	b) University Introduction	Marko Topic, Uni Ljubljana
09:40-10:40	Block I "Reliability and degradation effects in PV-Power plants"	Chairman: Tony Sample
	a) Scientific and economic comparison of outdoor characterization methods for photovoltaic power plants	Christina Hirschl, CTR
	b) LCA and Labelling	Andreas Wade, First Solar
10:40-11:00	Coffee Break	
11:00-12:30	Block II "Innovative devices providing new challenges for performance and durability assessment"	Chairman: Marko Topic
	a) What happens most?	Jürgen Arp, PV-Lab Potsdam
	b) Connectors	Eric Ast, Stäubli Connectors
	c) Monitoring methods and systems for PV reliability assessment	Marko Jankovec, University of Ljubljana
12:30-13:30	Lunch	
13:30-14:30	"SOLARTRAIN is coming"	Chairman: Karl-Anders Weiß
	a) Introduction	Karl-Anders Weiß, Fraunhofer ISE
	b) AP 3: Climate Degradation Factors	Julian Ascencio, Uni Lubljana
	c) AP 4: Analyzing degradation and failure modes of PV-modules	Aziz Nairi, CENER
	d) AP 5: Polymeric Materials in PV-Modules	Chiara Barretta, PCCL
	e) AP 6: Service Lifetime Prediction for PV modules and Systems and Economic Impact	Ismail Kaaya, Fraunhofer ISE
14:30-15:00	Coffee Break	
15:00-16:00	Block III "Characterization of location specific stress combinations"	Chairman: Michael Köhl
	a) Benchmarking of degradation of commercial PERC PV modules	Ralph Gottschalg, Fraunhofer CSP
	b) Influence of variable climatic stress conditions on performance and material degradation of PV-modules	Gabriele Eder, OFI
16:00-17:00	Discussion Block	
	a) New combined cycles for future test standards in IEC TC82 WG2	Tony Sample, JRC
	b) Plenary Discussion or Discussion Groups	
17:00	End of Day 1 & WORKSHOP DINNER at Restaurant "Druga Violina" at Stari trg 21, Ljubljana	
Wed 5 th	Topic	Speaker (Company)
08:30-10:30	Block IV "Polymers in PV modules"	Chairman: Ralph Gottschalg
	a) FTIR study of EVA chemical bonding and its impact on debond energy	Laura Spinella, NREL
	b) Effect of EVA aging on PID	Kristijan Brecl, University of Ljubljana
	c) Round robin weathering test of various back-sheets for PV-modules with different ultra-violet radiation sources and sample temperatures	Michael Köhl, Fraunhofer ISE
	d) PV materials and modules developed for certain climatic zones	Gernot Oreski, PCCL
10:30-11:00	Coffee Break	
11:00-12:30	Block V: "Flexible Modules"	Chairman: Gernot Oreski
	a) Progress in Reliability and Reliability testing at Heliatek	Mickael Lapeyrade, Heliatek
	b) Experiences in development and testing of flexible PV modules	Robert Buchinger, Sunlumo
	c) The art of standardizing the testing of polymers in PV-modules	Jürgen Jung, Agfa Gevaert
12:30-13:00	Plenary Discussion & Sum Up	
13:00-14:00	End of Workshop & Lunch	