

9th SOPHIA PV-Module Reliability Workshop, May 28 - 29th, 2019

Venue: Hotel Weitzer, Grieskai 12 - 14, 8020 Graz, Austria

Tue, May 28 th	Topic	Speaker (Company)
08:30-09:30	Registration	
09:30-10:00	Welcome	
	a) Welcome	Gernot Oreski, PCCL Karl-Anders Weiß, ISE
10:00-11:00	Block I "Interconnection"	Chairman: Gernot Oreski
	a) Endurance of Smart wires	Andreas Waltinger, Meyer Burger
	b) Reliability of ECA	Gernot Oreski, PCCL
11:00-11:30	Coffee Break	
11:30-13:00	Block II "Standardization & Test development"	Chairman: Daniel Philipp
	a) LeTID	Bengt Jäckel, CSP
	b) Combined-Accelerated Stress Testing	Michael Owen-Bellini, NREL
	c) Experiences from certification according new standard with B and B1 sequences	Daniel Philipp, ISE
13:00-14:00	Lunch	
14:00-15:30	Block III "SOLARTRAIN"	Chairman: Karl-Anders Weiß
	a) Using reanalysis data to evaluate the PV degradation regarding the KGPV climate zones in Europe	Julian Ascencio-Vásquez, University of Ljubljana
	b) Humidity ingress in PV encapsulants and glass-encapsulant-backsheet laminates	Stefan Mitterhofer, University of Ljubljana
	c) Effect of micro-climate and aging condition on polymer degradation	Djamel Eddine Mansour, ISE
	d) Degradation Modelling and Evaluation of Data Quality for Service Lifetime Prediction and Yield Estimation of PV Modules and Systems	Ismail Kaaya, ISE
15:30-16:00	Coffee Break	
16:00-17:00	Block IV "Advancements in lifetime modelling"	Chairman: Karl-Anders Weiß
	a) Modelling and simulation of EVA degradation: Accelerated ageing tests vs. long-term outdoor exposure	Maria Gagliardi, IMT
	b) Machine Learning Approaches for PV reliability assessment	Abdulkerim Gok, GYTE
19:00	End of Day 1 & WORKSHOP DINNER	
Wed, May 29 th	Topic	Speaker (Company)
08:30-09:00	Registration	
09:00-11:00	Block V "Encapsulants & Backsheets"	Chairman: Gernot Oreski
	a) PP Backsheets	Philip Hülsmann, Bischof + Klein
	b) Robust backsheet solutions for Aggressive climates: not necessarily Glass!	François Rummens, Renolit
	c) Reliability testing of new materials for module mass production	Marcel Kühne, Hanwah Qcells
	d) Backsheet-failures in the field	Luciana Pitta Bauermann, ISE
11:00-11:30	Coffee Break	
11:30-12:30	Block VI: "Thin film/organic/perovskite"	Chairman:
	a) Stability of organic and perovskite solar cells	Gregor Trimmel, TU Graz
	b) Latest developments on CIGS Reliability	
12:30-13:30	Lunch Break	
13:30-15:00	Block VII: "Ecodesign & Recycability vs. Reliability"	Chairman: Karl-Anders Weiß
	a) Effects of reliability on sustainability	Karl-Anders Weiß, ISE
	b) Possible repair strategies for PV-modules with cracked backsheets	Gabriele Eder, OFI
	c) Sustainability requirements: French tendering process, its evolution, and the Françoise Burgun, CEA/INES impact on the market	
15:00-16:00	Plenary Discussion & Sum up	
	How to include reliability metrics in sustainability assessment/Eco-labelling? How to increase the visibility of/awareness for quality and reliability aspects?	
16:00	End of Workshop	