12th SOPHIA PV-Module Reliability Workshop, June 30th – July 1st, 2022

Venue: EPFL Neuchâtel

Thu, June 30 th	Top	oic	Speaker (Institution)
8:30 - 9:00	Registration + Coffee		
09:00 - 10:30	We	elcome + Introduction: Reliability in HIGH-TECH industries	
	a)	Welcome	Virtuani, Alessandro (EPFL/CSEM) Weiß, Karl-Anders (ISE)
	b)	Recent progress in PV technologies, and future reliability challenges	Ballif, Christophe (EPFL/CSEM)
	c)	Design for Reliability in high-tech products	Annigoni, Eleonora (Holland Innovation)
10:15 - 10:45	Coffee Break		
11:00 - 12:30	Blo	ck I "Reliability of polymersic materials in PV-moduls"	
	a)	Reliability testing of new polyolefinic encapsulants and backsheets	Eder, Gabriele (OFI)
	b)	Latest generation of eco-designed PV module packaging materials and highly accelerated testing methods	Mofakhami, Eeva (INES/CEA)
	c)	Biopolymers for photovoltaics? General framework, suitability and challenges	Feldbacher, Sonja (PCCL)
12:30-13:30	Lur	nch Break + Poster Session	
13:30 - 15:00	Blo	ck II "Integrated-PV and special applications of PV"	
	a)	Enhanced stress tests for integrated and floating PV	Pravettoni, Mauro (SERIS)
	b)	The techno-economic potential of floating photovoltaics and the impact of its operating temperature	Micheli, Leo (Sapienza University of Rome)
	c)	Agrovoltaics: Understanding the impact of soiling based on filed data	Chudy, Dominika (CSEM)
15:00 - 15:30	Coffee Break		
15:30 - 16:30	Blo	ck II "Integrated-PV and special applications of PV"	
	d)	Evaluation of moisture ingress through edge sealants for floating PV applications	Roosloot, Nathan (IFE)
	e)	Reliability of BIPV modules/systems	Ozkalay, Ebrar (SUPSI)
16:30 - 17:00	Coffee Break		
17:00 - 18:30	Blo	ck III "Reliability and Sustainability"	
	a)	PV sustainability and circular model in the PV value chain	Agraffeil, Claire (CEA)
	b)	Recycling an Repair of PV modules – requirements and testing	Lenck, Norbert (VDE)
	c)	How to regulate the durability of PV modules and inverters with Ecodesign requirements	Polverini, Davide (EC - DG Growth)
18:30	End	d of Day 1	
19:30	Conference Dinner		

Fri, July 1st	То	pic	Speaker (Company)
8:00 - 8:30	Registration		
8:30 - 10:00	Block IV "Reliability of PV-Materials and BOS Components"		
	a)	Electrically Conductive Adhesives in PV Module: A Perspective on Reliability and Sustainability	Miller, Peter (Henkel)
	b)	Power Converters for Renewables – Reliability Design for novel Applications	Clemens, Daniel (SMA)
	c)	Degradation Mechanisms of Fluorinated and Non-Fluorinated Anti-Soiling Coatings	Jones, Luke (CREST)
10:00 - 10:30	Co	ffee Break	
10:30 - 12:00	Block V "Reliability of new cell-technologies"		
	a)	Extended reliability of Si Heterojunction solar modules	Gnocchi, Luca; Arriaga-Arruti, Olatz (EPFL)
	b)	Measurement challenges of PSK devices and their mitigation	Mihailov, Blago (JRC)
	c)	Patterns of Degradation in Perovskite Solar Cells	Jacobs, Daniel (EPFL)
12:00 - 13:00	Blo	ock VI "Service-life prediction and standardization"	
	a)	Modelling the effects of polymer thermal and moisture diffusion properties on lifetime energy yield prediction	Kaaya, Ismail (IMEC)
	b)	IEC standards for PV modules, current status and ongoing developments	Sample, Tony (JRC)
	Open Discussion & Sum up		
13:00 - 14:00	Lunch + Poster		
14:00 - 15:30	Optional: LAB tours (MC and Innoparc)		
	En	d of Workshop (or after lunch for people not taking the tour)	





