14th SOPHIA PV-Module Reliability Workshop

Agenda

Hasselt University (Belgium), 25.-26.04.2024

Thursday, April 25th

8:30 - 9:00	**Registration**	
9:00 - 9:15	**Welcome**	Ivan Gordon (IMEC), Michaël Daenen (UHasselt) & Karl-Anders Weiss (Fraunhofer ISE)
09:15 - 10:45	**Block I "Perovskite/Tandem"**	
	• From lab cell to full size module	Aranzazu Aguirre (Imec)
	• Perovskite photovoltaic: Extrinsic stability and Encapsulation challenge	Stéphane Cros (CEA)
10:45 - 11:15	*Coffee Break*	
11:15 - 12:45	**Block II "Integrated PV"**	
	• FPV and wind turbines: Additional humidity-induced stress for floating photovoltaics compared to ground-mounted PV	Nathan Roosloot (IFE)
	• Project MC2.0	Marc Koetse (TNO)
	• Specific needs for reliability in Integrated PV	Representative from Soltech Solutions
12:45 - 14:00	*Lunch Break*	
14:00 - 15:30	**Block III "IEA PVPS Task 13 Webinar: Adapted testing for emerging PV applications"**	
	• Introduction	Karl-Anders Weiß (ISE)
	• Adaptation for floating PV	Nikoleta KYRANAKI (IMEC)
	• Higher thermal and thermomechanical stresses in building integrated PV modules.	Ebrar Özkalay (SUPSI)
	• Q&A	Karl-Anders Weiß (ISE)
15:30 - 16:00	*Coffee Break*	

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16:00 - 17:00	**Block IV "Adapted testing for different climates and applications" - Group Discussions**	
	• Introduction: Powering Through Climate Change: Testing PV Modules Against Catastrophic Climate Events • Adapted testing for power electronics • Adapted testing for modules • Adapted testing for integrated applications	Sagarika Kumar (Technology Innovation Institute)
17:00 - 17:30	**Results of group discussions**	Karl-Anders Weiß (ISE)
17:30	*End of Day 1 and Conference Dinner*	

Friday, April 26th

08:30 - 09:00	**Registration**	
09:00 - 10:30	**Block V "Electronics (related to PV)"**	
	• Reliability of Power Electronics in Photovoltaic systems	Ariya Sangwongwanich (AAU)
	• The potential and emerging reliability challenges of (offshore) floating photovoltaics	Oscar Delbeke (KULeuven)
	• Reliability of Power Electronics in Renewable Energies: Development, Qualification and System Design	Daniel Clemens (SMA Solar Technology AG)
10:30 - 11:00	*Coffee Break*	
11:00 - 12:30	**Block VI "'Lightweight modules and testing, can they pass real life?"**	
	• Glass breakage in the lab	Ingrid Hädrich, Jochen Markert (ISE)
	• Lightweight Modules Ignitability test: In-house instrument development and material characterisation assessment	Florian Ollagnon (EPFL)
	• Key reliability aspects for the integration of PV in passenger car sunroofs	Loïc Tous (AGC Glass Europe)
12:30 - 13:00	**Plenary Discussion & Sum up**	
13:00	*End of Workshop* **LAB-Tour (optional)**	