

1st SOPHIA PV-Module Reliability Webinar, May 28 - 29th, 2020

Webinar hosted by École Polytechnique Fédérale de Lausanne, Switzerland

Thu, May 28 th	Topic	Speaker (Company)
14:00-14:10	Welcome & Introduction	Alessandro Virtuani, EPFL Karl-Anders Weiß, ISE
14:10-15:25	Block I	
	a) Insurability, Bankability, and Investability – How Reliability Matters in the Underwriting Decisions	Edward Hsi, SwissRE
	b) Degradation patterns of module packaging materials across length scales: global, local, sub-module	Andrew Fairbrother, EPFL
	c) Performance testing of bifacial PV modules according to IEC TS 60904-1-2: a route towards bifacial reliability	Juan Lopez-Garcia, JRC/European Commission
15:25-15:30	Wrap-Up	Alessandro Virtuani, EPFL Karl-Anders Weiß, ISE
15:30	End of Day 1	
Fri, May 29 th	Topic	Speaker (Company)
14:00-14:05	Introduction to SolarTrain-Project	Karl-Anders Weiß, ISE
14:05-15:20	Block II "SolarTrain – Climate, Materials and Performance"	
	"Understanding climate related operation conditions of PV systems"	
	a) Main climate degradation factors	Julian Ascencio Vasquez, University of Ljubljana
	b) Is Henry's law appropriate for real polymers (absorption under equilibrium)?	Nikoleta Kyranaki, University of Loughborough CREST
	c) Moisture diffusion in different encapsulants and backsheets	Stefan Mitterhofer, University of Ljubljana
	"Advanced characterization of PV materials: natural and artificial ageing"	
	a) DH/UV of different encapsulants	Chiara Barretta, PCCL
	b) Accelerating testing of backsheets	Luis Castillon, PCCL
	c) Effect of different backsheet on encapsulant degradation	Djamel Eddine Mansour, ISE
	"PV module performance evolution"	
	a) Ismail Kaaya, ISE: PV degradation modelling	Ismail Kaaya, ISE
	b) Electrical parameter evolution	Nikola Hrelja, EDF
	"Field Performance Losses and Service Lifetime Prediction"	
	a) Nonlinear Multi-step Performance Loss Rate	Sascha Lindig, EURAC
	b) Modelling applied to O&M activities	Guillermo Oviedo Hernandez, BayWa
15:20-15:30	Wrap-Up & Information on 2021 Workshop	Alessandro Virtuani, EPFL Karl-Anders Weiß, ISE
15:30	End of Webinar	