

**6th SOPHIA PV-Module Reliability Workshop, April 28 - 29, 2016, AIT, Vienna, Austria**  
**Venue: Austrian Institute of Technology, TECHbase Vienna, Giefingasse 2, 1210 Wien**

THU 28 <sup>th</sup>	Topic	Speaker (Company)	Room
09:00-10:00	Registration & Welcome		
09:00-09:30	a) Registration		Foyer
09:30-10:00	b) Welcome	Brigitte Bach (AIT Energy)	Plenum
	c) AIT Introduction	Christoph Mayr (AIT PVS)	Plenum
	d) PV & PV Industry in Austria	Hubert Fechner (FH Technikum)	Plenum
10:00-13:00	Block I "Novel materials and challenges for reliability testing"		
	a) Backsheets and the challenge of continuous adaption due to regular market and standard changes	Andreas Skringer (ISOVOLTAIC)	Plenum
	b) PID: From material properties to outdoor performance & quality control counter measures	Juliane Berghold (PI Berlin)	Plenum
11:00-11:30	Coffee Break		
	c) Time dependent luminescence spectroscopy: Evaluating EVA cross-linking in PV-modules	Beate Röder (HU Berlin)	Plenum
	d) Stabilization and ageing behaviour of polymeric materials for PV-modules	Gernot Wallner (JKU Linz)	Plenum
	e) Degradation in PV Encapsulant Adhesion: An Interlaboratory Study Towards a Climate-Specific Test	David C. Miller (NREL)	Plenum
13:00-14:00	LUNCH		
14:00-16:00	Block II "Reliability issues on system level"		
	a) Degradation and reliability in PV performance modelling for accurate PV system analysis and forecasting	Blaž Kirn (University Ljubljana)	Plenum
	b) PV-reliability as addressed in IEA PVPS Task13	Ulrike Jahn (TUV Rh)	Plenum
	c) Statistical assessment of PV reliability within the H2020 Solar Bankability project	Giorgio Belluardo (EURAC)	Plenum
	d) PV-system analysis based on inverter data	Johannes Stöckl (AIT)	Plenum
16:00-16:30	Coffee Break		
16:30-17:30	Group Discussion: What is most important when introducing novel materials: performance, reliability, costs?		
18:00 -19:30	Get-together-opening and AIT Lab Tour		
19:30-22:30	DINNER at AIT		
FRI 29 <sup>th</sup>	Topic	Speaker (Company)	Room
08:30-11:45	Block III "Building Integration "		
	a) BiPV-modules way to a certified building product	Dieter Moor (Ertex)	Plenum
	b) Dye-sensitized solar cell modules for building integration	Thomas Friesen (Glass2Energy)	Plenum
	c) IEA PVPS Task 15 – Acceleration of BIPV / BIPV- testing - experiences regarding energy yields and failure modes from demo sites in the Netherlands	Alex Masolin (ZUYD, NL)	Plenum
	d) IEA PVPS Task 15 - Acceleration of BIPV - potentials and barriers from an Austrian and German point of view	Astrid Schneider (AIT)	Plenum
10:30-11:00	Coffee Break		
	e) Short Presentation: RiPV - Roof integrated PV: Temperature measured and calculated	Michael Köhl (ISE)	Plenum
	f) IEC TC82 approach to BIPV-standards	John Wohlgemuth (NREL)	Plenum
11:45-12:15	Group Discussion: How to meet the demands of future markets in China (Mass production/Power Plants) and Europe (Customized modules/Building Integration)?		
12:15-13:15	LUNCH		
13:15-16:15	Block IV "Novel developments in characterisation"		
	a) Revealing inhomogeneous aging of EVA-encaps. in PV-modules by non-destructive 2D-luminescence spectroscopy and destructive measurements	Jan Schlothauer (HU Berlin)	Plenum
	b) Evaluation of the acidic acid permeability of PV-backsheets	Gabriele C. Eder (OFI)	Plenum
	c) UV-luminescence imaging of fielded PV-modules	Bernhard Kubicek (AIT)	Plenum
14:45-15:15	Coffee Break		
	d) Thermographers view on PV-plant inspection	Bernhard Weinreich (HaWe Engineering)	Plenum
	e) In-situ degradation monitoring with focus on capacitance measurement	Daniel Philipp (ISE)	Plenum
16:15-17:15	Plenary Discussion & Sum Up		
17:15	END of Workshop, Optional: AIT Lab Tour (Rerun for guests who have missed it the day before)		