

Thursday, 16th June 2022

9:00 – 9:50	Registration & Coffee	
9:50 – 10:00	Opening of the workshop <i>Marko Topič & Rutger Schlattman</i>	
	Session I, Chairman: Marko Topič	
10:00 – 10:45 PLENARY	Steve Albrecht TU Berlin/HZB, Berlin, Germany	Perovskite tandems in competition for record efficiencies
10:45 – 11:30 INVITED	Ralph Gottschalg Fraunhofer CSP, Halle (Saale), Germany	What value can artificial intelligence add to PV system diagnostic?
11:30 – 12:15 INVITED	Atse Louwen EURAC, Bolzano, Italy	The role of digitalization in advanced O&M of PV
12:15 – 13:30	Lunch break	
	Session II, Chairman: Ralph Gottschalg	
13:30 – 14:00	Marko Jankovec Univ. of Ljubljana, Fac. of Elec. Eng., Ljubljana, Slovenia	LPVO solutions for advanced PV monitoring
14:00 – 14:30	Mark Khenkin HZB, Berlin, Germany	Correlating Indoor and Outdoor Degradation in Perovskite Solar Cells
14:30 – 14:45	Marko Remec Univ. of Ljubljana, Fac. of Elec. Eng., Ljubljana, Slovenia	WLED monitoring setup for research perovskite solar cells
14:45 – 15:00	Darjo Uršič Univ. of Ljubljana, Fac. of Elec. Eng., Ljubljana, Slovenia	Indoor monitoring for PV powered IoT
15:00 – 15:15	Saša Sladić Faculty of Engineering Rijeka, Croatia	Silicon Carbide Benefits for PV and Automotive Applications
15:15 – 15:45	Coffee break	
	Session III, Chairman: Steve Albrecht	
15:45 – 16:00	Marko Jošt Univ. of Ljubljana, Fac. of Elec. Eng., Ljubljana, Slovenia	Bichromatic LED setup for advanced characterization of tandem solar cells
16:00 – 16:15	Martin Ledinsky Institute of Physics, Prague, Czech Republic	Mapping the Transport Paths in Silicon Passivating Contacts with Conductive AFM Tomography
16:15 – 16:30	Milan Kovačič Univ. of Ljubljana, Fac. of Elec. Eng., Ljubljana, Slovenia	Reduced graphene oxide in solar cells
16:30 – 18:00	LPVO monitoring PV tour	
19:00 – 21:00	LPVO floating PV tour <i>Location: Ljubanica river</i>	

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9:30 – 10:00	Coffee break	
	Session IV, Chairman: Janez Krč	
10:00 – 10:45 PLENARY	Antonin Fejfar Czech Academy of Sciences, Prague, Czech Republic	Great expectations for photovoltaic energy resources
10:45 – 11:15 INVITED	Carolin Ulbrich HZB, Berlin, Germany	PV monitoring and big data at HZB
11:15 – 11:30 INVITED	Pierre-Jean Alet CSEM, Neuchâtel, Switzerland	High-resolution intraday forecasts of PV production with advanced machine-learning architectures
11:30 – 11:45	Kristijan Brecl Univ. of Ljubljana, Fac. of Elec. Eng., Ljubljana, Slovenia	PV system performance assessment by TDP model
11:45 – 12:00	Julian Ascencio	Hybrid data-driven techniques to optimize PV fleet energy yield
12:00 – 12:15	Guillermo Oviedo Hernandez BayWa r.e., Rome, Italy	NB-IoT/5G wireless retrofit approach for PV monitoring
12:15 – 13:30	Lunch break	
	Session V, Chairman: Antonin Fejfar	
13:30 – 13:45	Paolo Graniero HZB, Berlin, Germany	Machine Learning on Perovskite Stability Data: Critical Issues in Current Shared Databases
13:45 – 14:00	Žan Ajdič Univ. of Ljubljana, Fac. of Elec. Eng., Ljubljana, Slovenia	Progress of perovskite solar cells at LPVO
14:00 – 14:15	Florian Scheler HZB, Berlin, Germany	Design principles for constructing the ideal interface: a perovskite/C60 case study
14:15 – 14:30	Aleš Vlk Institute of Physics, Prague, Czech Republic	Urbach energy and defect formation during the halide perovskite growth
14:30 – 14:45	Jure Pušenjak Univ. of Ljubljana, Fac. of Elec. Eng., Ljubljana, Slovenia	TCAD modelling of solar cells
14:45 – 15:00	Bor Li HZB, Berlin, Germany	Up to 1.94 V open-circuit voltage in highly efficient perovskite/silicon tandem solar cells using polymeric interlayers in the top contact
15:00 – 15:15	Closing remarks, Marko Topič & Rutger Schlattman	

15:30 – 18:00	TAPAS Meeting <i>For project members</i>	
	WP progress report	
	WP action plan 2022	
	Dissemination & Management	