



StableNextSol COST Action no. MP1307

Stable Next Generation Photovoltaics: Unravelling Degradation Mechanisms of Organic and Perovskite Solar Cells by Complementary Characterization Techniques.

7th MC, 6th WG Meeting

Venue: Congress Center of Instituto Superior Técnico (IST) in Lisbon, Portugal.

April 6, 2017. Meeting Room: Auditorium

Thursday		April 6 th , 2017	MC/WG Meeting
<i>Morning Session</i>		Action update	
8:30 – 12:00	Registration		
9:00 - 10:15	Welcome to participants: : Dr. Yulia Galagan (HOLST, NL) Welcome to Lisbon: Dr. Ana Charas (IT, Lisbon) Update from the Action Chair: Status of Action, web page, new members, dissemination meetings, budget.		
10:15 - 10:30	Future Meetings: Dr. Renata Mikalauskiene, Dr. Brian Azzopardi –ISOS-10. International Summit of Solar Cell Stability (Malta, October 17-20 th , 2017)		
10:30 - 10:45	Last Meeting of our COST Action: : Dr. Yulia Galagan (Barcelona, Spain, February 2018)		
10:45 - 11:10	Coffee Break		
Science and Technology: Experimental			
11:10 - 11:20	Update of STSMs: Dr. Koen Vandewal/Dr. Yulia Galagan		
11:20 - 11:50	Experiments Report: Introduction Prof. Harald Hoppe/Dr. Yulia Galagan		
11:50 - 12:20	Experiment 1: Prof. Harald Hoppe/ Dr. Simon Züfle		
12:20 - 12.40	Experiment 3: Dr. Sjoerd Veenstra		
12:40 - 13:00	Experiment 4: Dr. Yulia Galagan		
13:00 - 12:55	Experiment 6 on Perovskites: Dr. Francesca Brunetti		
12:55 - 13:00	Wrap up Experimental Part and Q&A.		
13:00-14:10	LUNCH		

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Thursday	April 6 th , 2017	MC/WG Meeting
Science and Technology I: Invited Talks		
<i>Afternoon Session</i> "Best practices and Protocols for perovskite solar cells characterization"		
14:10 - 14:35	Best Practices in Perovskite Solar Cell Efficiency Measurements. Avoiding the Error of Making Bad Cells Look Good Dr. Jeffrey A. Christians , Joseph S. Manser, and Prashant V. Kamat Radiation Laboratory, Department of Chemical and Biomolecular Engineering, and Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, Indiana 46556, United States.	
14:35 - 15:00	Tracking Perovskite Solar Cells' Efficiencies and Instabilities on Different Timescales Dr. Wolfgang Tress LPI, École Polytechnique Fédérale de Lausanne (EPFL) CH-1015 Lausanne, Switzerland.	
15:00 - 15:25	Comparison of power conversion efficiency of solar cell showing hysteresis by I-V measurement and MPPT method under various light intensities Prof. Satoshi Uchida Komaba Organization for Educational Excellence College of Arts and Sciences (KOMEX) The University of Tokyo, Japan.	
15:25 - 15:50	Characterization of perovskite solar cells: Towards a reliable measurement protocol Eugen Zimmermann, Ka Kan Wong, Michael Müller, Hao Hu, Philipp Ehrenreich, Markus Kohlstädt, Eugen Zimmermann, Ka Kan Wong, Michael Müller, Hao Hu, Philipp Ehrenreich, Markus Kohlstädt, Dr. Uli Würfel , Simone Mastroianni, Gayathri Mathiazhagan, Andreas Hinsch, Tanaji P. Gujar, Mukundan Thelakkat, Thomas Pfadler, and Lukas Schmidt-Mende Department of Physics, University of Konstanz, 78457 Konstanz, Germany Fraunhofer Institute for Solar Energy Systems ISE, Heidenhofstr. 2, 79110 Freiburg, Germany Freiburg Materials Research Center FMF, University of Freiburg, Stefan-Meier-Str. 21, 79104 Freiburg, Germany Applied Functional Polymers, Department of Macromolecular Chemistry I, University of Bayreuth, 95440 Bayreuth, Germany.	
15:50 - 16:20	Precise performance characterization of perovskite solar cells Dr. Yoshihiro Hishikawa , Haruya Shimura, Takashi Ueda, Ayumi Sasaki, Yuki Ishii Research Center for Photovoltaics (RCPV), National Institute of Advanced Industrial Science and Technology (AIST), Japan.	
16:20 - 16:40	Coffee Break	
16:40 - 17:05	Dynamic behaviour of Perovskite Solar Cells and the effect of long time constants in the electrical characterization. Dr. Stefano Berrettoni and Dr. S. Zaka Ahmed Dyesol UK Ltd. UMIC, 48 Grafton Street. Manchester, M13 9XX. United Kingdom	
17:05 - 17:30	Do's and don'ts when determining the power conversion efficiency of perovskite solar cells: is the current IEC standard applicable to perovskites? Dong Zhang, Francesco di Giacomo, Robert Gehlhaar, Klaas Bakker, Wiljan Verhees, Yulia Galagan, Mehrdad Najafi, Dr. Sjoerd Veenstra , Tom Aernouts, Ronn Andriessen. ECN – Solliance, High Tech Campus 21, 5656 AE, Eindhoven, The Netherlands Holst Centre/TNO – Solliance, High Tech Campus 21, 5656 AE Eindhoven, The Netherlands Imec – Solliance, Thin Film PV, Leuven, B-3001, Belgium.	
17:30 – 17:55	IEC standard of emerging PV past, present and future Introduction of current activity: Performance Measurement Protocol for emerging PVs (OPV, DSC, and PSC) Prof. Toshiro Matsuyama RATO, Japan	
17:55 - 18:20	Calibration procedure for solar cells exhibiting slow response Dr. Giorgio Bardizza , Diego Pavanello, Roberto Galleano, Tony Sample and Harald Müllejans European Commission Joint Research Centre - Directorate C Energy, Transport and Climate – Energy. Efficiency and Renewables Unit - European Solar Test Installation - Via E. Fermi 2749 - TP 450 I-21027, Ispra (VA) – Italy . E-mail: giorgio.bardizza@ec.europa.eu.	
18:20 - 18:45	Commercializing OPV – Important Tests to Prove Durability Dr. Tobias Sauermann , OPVIUS GmbH (former Belectric) Steigweg 24 - Building 12, 97318 Kitzingen, Germany	
18:45 - 18:50	Closing the MC/WG Meeting of our COST Action: See you tomorrow in our Industrial Day Remember our next meeting: Malta October 17-20th, 2017 (ISOS-10: International Summit on Solar Cell Stability).	
19:00	Dinner	

