

**COST MP1307 veiklos valdymo komiteto atstovo**  
**prof. habil. dr. Vaidoto Kažukauskio**  
**Ataskaita**  
**apie veiklos susitikimą**  
**Lisabonoje 2017 m. balandžio mėn. 6-7 d.**

Septintasis COST MP1307 veiklos „Stable Next-Generation Photovoltaics: Unraveling degradation mechanisms of Organic Solar Cells by complementary characterization techniques (StableNextSol)“ („Stabilioji naujos kartos fotovoltaika: organinių saulės elementų degradacijos mechanizmų atskleidimas papildančiais tyrimo metodais“) valdymo komiteto ir darbo grupių susitikimas įvyko 2017 m. balandžio mėn. 6-7 d. Instituto Superior Técnico (IST) in Lisbon, Portugal. Susitikimo darbotvarkė pridėta 1 priede.

Šis susitikimas buvo suderintas su Industrijos diena: Industrial Day – “Printed Electronics and Solar Cells”, kurios tema betarpiškai siejasi su vykdomos COST veiklos tematika. Tai padaryta, siekiant praplėsti veiklos tematiką ir horizontus, labiau įsigilinant į industrijos pasiekimus ir poreikius.

Renginio pradžioje patvirtinta susitikimo darbotvarkė ir patvirtintas penktojo posėdžio, įvykusio 2016 m. balandžio mėn. 21-22 d. Bratislavoje, protokolas. Pabrėžtina, jog 2016 m. įvyko tik šis vienas bendras valdymo komiteto narių iš visų šalių posėdis,

Aptartas biudžeto vykdymas 2016 m. ir patvirtintas biudžetas 2017-2018 metams iki šios COST veiklos pabaigos.

Aptarti atskirų darbo grupių pasiekti rezultatai, įgyvendinant projekte numatytas veiklas. Konstatuota, jog projektas įgyvendinamas labai sėkmingai tiek mokslinė, tiek finansinė prasme – tai patvirtina ir atsakingų COST atstovų Briuselyje įvertinimas.

Konstatuota, jog įvyko eilė konkurso būdu finansuojamų jaunųjų mokslininkų trumpalaikių mokslinių vizitų į projekto partnerių institucijas. Šių projektų dalyviai pristatė pranešimus-ataskaitas apie įvykusius vizitus ir jų metu gautus mokslinius rezultatus. Informuota apie dar du likusius šaukimus teikti paraiškas vizitams iki veiklos pabaigos 2018 m. Taisyklės galima rasti puslapyje: <http://stabilnextsol.eu/activities/short-term-scientific-missions/>.


Aptarti jau pasiekti projekto moksliniai rezultatai ir tolimesnio bendradarbiavimo planai ir numatomi bendri darbai. Veiklos darbo grupių vadovai pristatė savo veiklos vizijas, strategijas ir bendradarbiavimo perspektyvas iki šios COST veiklos pabaigos. Numatyti projekto patikslinimai, padėsiantys geriau įgyvendinti jo tikslus, užbaigiant projektą.

Numatytos kitų COST veiklos valdymo komiteto susitikimų vietos ir preliminarios datos iki projekto pabaigos. Kitas valdymo komiteto ir darbo grupių susitikimas įvyks 2017 m. spalio mėn. 18-20 dienomis Maltoje, Malta College of Arts, Science & Technology. Šis susitikimas bus suderintas su konferencija „10th International Summit on Stability of Organic and Perovskite Solar Cells” kurios tema betarpiškai siejasi su vykdomos COST veiklos tematika.

# 1 priedas. Septintojo COST MP1307 veiklos susitikimo Lisabonoje darbotvarkė



## PRELIMINARY AGENDA

	<b>StableNextSol COST Action no. MP1307</b> <i>Stable Next Generation Photovoltaics: Unravelling Degradation Mechanisms of Organic and Perovskite Solar Cells by Complementary Characterization Techniques.</i> 7 <sup>th</sup> MC, 6 <sup>th</sup> WG Meeting Venue: Congress Center of <b>Instituto Superior Técnico (IST)</b> in Lisbon, Portugal. April 6, 2017. Meeting Room: Auditorium	
<b>Thursday</b>	<b>April 6th, 2017</b>	<b>MC/WG Meeting</b>
<b>Morning Session</b>	<b>Action update</b>	
9:00 – 10:15	Welcome to participants: Prof. Monica Lira-Cantu (ICN2, Barcelona). Welcome to Lisbon: Prof. 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. Brian Azzopardi –ISOS-10. International Summit of Solar Cell Stability (Malta, October 17-20 <sup>th</sup> , 2017).	
10:30-10:45	Last Meeting of our COST Action: CORE Group (Barcelona, Spain. February 2018).	
10:45 – 11:10	Coffee Break	
<i>Science and Technology: Experimental</i>		
11:10–11:30	Update of STSMs: Dr. Koen Vandewal	
11:30-11:50	Experiments Report: Introduction Prof. Harald Hoppe.	
11:50-12:20	Experiment 1: Prof. Harald Hoppe.	
12:20-12.40	Experiment 3: Dr. Sjoerd Veenstra.	
12:40-13:00	Experiment 4: Dr. Yulia Galagan.	
13:00-13:20	Experiment 6 on Perovskites: Dr. Francesca Brunetti.	
13:20-13:30	Wrap up Experimental Part and Q&A.	
13:30-14:30	LUNCH	

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Thursday		April 6th, 2017	MC/WG Meeting
		<i>Science and Technology I: Invited Talks</i>	
<i>Afternoon Session</i>		<i>"Best practices and Protocols for perovskite solar cells characterization"</i>	
14:30 – 14:35	Welcome		
14:35-15:00	<b>Best Practices in Perovskite Solar Cell Efficiency Measurements. Avoiding the Error of Making Bad Cells Look Good</b> <u>Jeffrey A. Christians</u> , 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.		
15:00-15:25	<b>Tracking Perovskite Solar Cells' Efficiencies and Instabilities on Different Timescales.</b> <u>Dr. Wolfgang Tress</u> LPI, École Polytechnique Fédérale de Lausanne (EPFL) CH-1015 Lausanne, Switzerland.		
15:25-15:50	<b>IEC standard of emerging PV past, present and future Introduction of current activity: Performance Measurement Protocol for emerging PVs (OPV, DSC, and PSC).</b> <u>Prof. Toshiro Matsuyama</u> Executive Director RATO The University of Tokyo, Japan.		
15:50-16:20	<b>Characterization of perovskite solar cells: Towards a reliable measurement protocol.</b> Eugen Zimmermann, Ka Kan Wong, Michael Müller, Hao Hu, Philipp Ehrenreich, Markus Kohlstädt, Eugen Zimmermann, <sup>1</sup> Ka Kan Wong, <sup>1</sup> Michael Müller, <sup>1</sup> Hao Hu, <sup>1</sup> Philipp Ehrenreich, <sup>1</sup> Markus Kohlstädt, <sup>2,3</sup> <u>Uli Würfel</u> , <sup>2,3</sup> Simone Mastroianni, <sup>2</sup> Gayathri Mathiazhagan, <sup>2</sup> Andreas Hinsch, <sup>2</sup> Tanaji P. Gujar, <sup>4</sup> Mukundan Thelakkat, <sup>4</sup> Thomas Pfadler, <sup>1</sup> and Lukas Schmidt-Mende <sup>1</sup> 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.		
16:20 - 16:40	Coffee Break		
16:40 – 17:05	<b>Precise performance characterization of perovskite solar cells</b> <u>Yoshihiro Hishikawa</u> , Haruya Shimura, Takashi Ueda, Ayumi Sasaki, Yuki Ishii Research Center for Photovoltaics (RCPV), National Institute of Advanced Industrial Science and Technology (AIST), Japan.		
17:05 – 17:30	<b>Do's and don'ts when determining the power conversion efficiency of perovskite solar cells: is the current IEC standard applicable to perovskites?</b> Dong Zhang, Francesco di Giacomo, Robert Gehlhaar, Klaas Bakker, Wiljan Verhees, Yulia Galagan, Mehrdad Najafi, <u>Sjoerd Veenstra</u> , 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	<b>Comparison of power conversion efficiency of solar cell showing hysteresis by I-V measurement and MPPT method under various light intensities</b> <u>Prof. Satoshi Uchida</u> Komaba Organization for Educational Excellence College of Arts and Sciences (KOMEX) The University of Tokyo, Japan.		
17:55 – 18:20	<b>Calibration procedure for solar cells exhibiting slow response.</b> <u>Giorgio Bardizza</u> , 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 – 18:30	<b>Closing the MC/WG Meeting of our COST Action: See you in tomorrow in our Industrial Day Remember our next meeting: Malta October 17-20<sup>th</sup>, 2017 (ISOS-10).</b>		
19:00	Dinner		



	<b>StableNextSol COST Action no. MP1307</b> <i>Stable Next Generation Photovoltaics: Unravelling Degradation Mechanisms of Organic and Perovskite Solar Cells by Complementary Characterization Techniques.</i>	
	<b>Industrial Day – “Printed Electronics and Solar Cells”</b> Venue: Congress Center of Instituto Superior Técnico (IST) in Lisbon, Portugal. April 7, 2017. Meeting Room: Auditorium	
<b>Friday</b>	<b>April 7th, 2017</b>	<b>Industrial Day</b>
<b>Morning Session</b>		
8:30 – 12:00	Registration	
9:30 - 9:45	Welcome by Prof. Carlos Salema (President of IT), Prof. Mónica Lira-Cantu (Chair of the StableNextSol COST action), Dr. Ana Charas (Senior researcher at IT), Prof. Luís Alcácer (Leader of Organic electronics Group at IT).	
9:45 - 10.10	Dr. Elias Stathatos (Brite Solar, Greece), title to be announced.	
10.10 - 10:35	Dr. Henrik Pettersson (Dyename, Sweden), title to be announced.	
10:35 – 11:00	Coffee Break	
11:00 - 11:25	Dr. Palvi Apilo (VTT TRC, Finland), title to be announced.	
11:25 – 11:50	Dr. Helena Alves (CICECO, Portugal), title to be announced.	
11:50 - 12:50	Flash presentations from participants(each: 5 + 5 min), titles to be announced.	
12:50 – 12:55	Dr. Louis Pacheco (CSInstruments), title to be announced.	
12:55 -14:00	LUNCH	
<b>Afternoon Session</b>		
14:00 - 14:25	Dr. Toni Muller (Heliatek, Germany), title to be announced	
14:25 - 14:50	Dr. Henrique Gomes (Univ. Algarve and IT, Portugal), title to be announced	
14:50 - 15:15	Dr. Lucio Ciná (Cicci Research, Italy), title to be announced	
15:15 - 15:40	Dr. Giorgio Bardizza (European Commission DG JRC, Italy), title to be announced	
15:40 - 16:05	Dr. Julian Burschka (Merck Germany), title to be announced.	
16:05 - 16:40	Coffee Break	
16:40 - 17:30	5 Flash presentations from participants (each: 5 + 5 min), titles to be announced.	
17:30 - 18:00	Closure and Final remarks	

+ Posters presented on the hall next to the room, to be discussed during the lunch and coffee breaks

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