COST Action PEARL PV CA16235: Performance and Reliability of Photovoltaic Systems: **Evaluations of Large-Scale Monitoring Data**

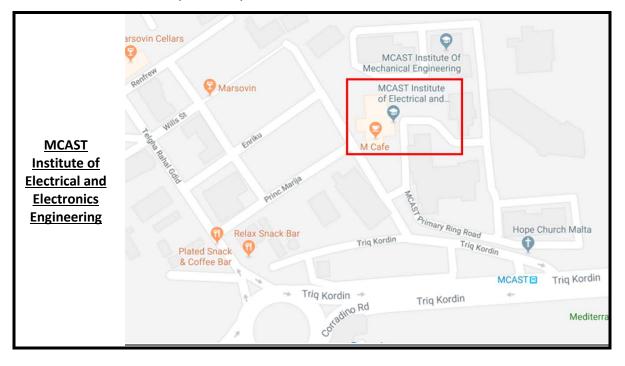


Training School II

EVALUATION OF THE PERFORMANCE DEGRADATION OF PV-SYSTEMS INFLUENCE FACTORS, FAILURE MODES AND THEIR DETECTABILITY AND EFFECT ON ECONOMIC VIABILITY

15th - 18th October 2019,

MCAST; Main Campus Triq II-Perit Dom Mintoff; Paola Malta PLA 9032





This Training School is supported by

Schedule of events

Tuesday 15 October 2019: State of the ART c-Si PV

Time	Торіс	Lecturers
9.00 - 9.30	Registration Opening of the Training School	Angele Reinders / UTwente
9.30 - 10.45	Keynote lecture: Reliability of Photovoltaic systems (c-Si) and Activities in IEA PVPS Task13	Karl Berger / AIT
	Failure modes of c-Si-PV Systems, Modules and Components	Gabriele Eder / OFI
10.45 - 11.00	Coffeebreak	
11.00 - 12.30	Postersession I: Mutual introduction of all participants	Aleksandra Krstic- Furundzic / Univ.Belgrade
12.30 - 13.30	Lunch	
13.30 - 15.15	Expert lectures + Discussions: Degradation mechanisms of PV-cells and polymeric materials	Gernot Oreski / PCCL Abdülkerim Gök / Gebze TU
15.15 - 15.30	Coffee break	
15.30 - 17.00	Practical Course: Degradation modeling	Gernot Oreski / PCCL Abdülkerim Gök / Gebze TU

Wednesday 16 October 2019: Performance degradation / Bankability

Time	Торіс	Lecturers
9.00 - 10.45	Keynote lecture: Field performance measurements and the basics of data analytics	Jonathan Leloux / UPM
	State-of-the-Art Performance Degradation Measurements	Christian Braun / Fraunhofer ISE
	Failure detection in the field	Gabriele Eder / OFI und Karl Berger / AIT
10.45 - 11.00	Coffee Break	
11.00 - 12.30	Bankability/calculations: effect of degradation and lifetime on economic viability	David Moser / EURAC
12.30 - 13.30	Lunch	
13.30 - 17.00	Excursion to PV-Installation at MCAST + Workshop: Evaluation and interpretation of electrical data I performance degradation, data treatment -> failure identification	Jonathan Leloux / UPM Karl Berger/ AIT Abdülkerim Gök / Gebze TU
Evening	Joined Dinner (invited)	

Thursday 17 October 2019: Thin film Technologies / Characterization

Time	Торіс	Lecturers
9.00 – 10.15	<i>Keynote lecture:</i> Performance degradation and failure modes of thin film PV	Marcus Rennhofer / AIT
10.15 - 10.45	Coffee break	
10.45 - 12.00	Reliability engineering and modeling: root cause analysis and predictive ageing	Jeffrey Kettle / Bangor Univ.
12.00 - 13.00	Lunch	
13.00 -17:00	Visit to the University of Malta Solar Research Laboratory + Workshop: Measurement and interpretation of characterization data II Failure detection with EL, TG, UV-F	Gabriele Eder / OFI Marcus Rennhofer / AIT Angele Reinders / UTwente Wolfgang Mühleisen /SAL
Evening	Social event	

Friday 18 October 2019: Emerging Technologies

Time	Торіс	Lecturers
9.00 – 10.45	Reliability and challenges of emerging PV / Nanostructured PV	Shahzada Ahmad / BC materials
	Reliability of next generation PV- systems (OPV)	Jeffrey Kettle / Bangor Univ.
	Hybrid organic-inorganic Pb-free perovskite materials for PV applications	Anna Ioannou / National Hellenic Research Foundation
10.45 - 11.00	Coffee break	
11.00 - 12.30	Interactive poster session II	Aleksandra Krstic-Furundzic / Univ.Belgrade
12.30 - 13.30	Wrap up & closing / joined lunch	

Contact persons:

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Address of the venue

MCAST, Malta College of Arts, Science and Technology Main Campus Triq II-Perit Dom Mintoff Paola Malta PLA 9032

Local Organizer:

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