





## **COST Action CA16235 PEARL PV**

Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data

## **COST Action PEARL PV's Conference Enabling the PV Terawatt Transition**

University of Twente, Enschede, The Netherlands 14 – 16 March 2022

## Tentative Program – to be regularly updated

Day 1: 14	March 2022					
9:00 -	Plenary session					
12:30h						
	9:00h Opening ceremony with					
	Ms. Gordana Kregar, COST Association, Brussels, Belgium Prof. dr. Angèle Reinders, University of Twente, Eindhoven University of Technology, the Netherlands Prof. dr. Wilfried van Sark, Utrecht University, the Netherlands Dr. David Moser, EURAC, Italy  9:30h Plenary Speaker 1: Dr. Teresa Barnes, NREL, Denver, USA Title: Predicting and Extending PV Module Lifetime					
Nanotechnology ICN2, Barcelona, Spain		Lira-Cantu, Catalan Institute of Nanoscience and				
Title: Perovskite Solar Cell Stability						
	<ul> <li>10:30h Coffee &amp; tea break</li> <li>11:00h Plenary Speaker 3: Prof. dr. Christophe Ballif, Ecole Polytechnique Fédérale de Lausanne (EPFL) and CSEM, Neuchâtel, Switzerland</li> <li>Title: Photovoltaics go fast: improved technologies and carbon footprint for a wider range of applications</li> <li>11:30h Plenary Speaker 4: Prof. dr. Jan Kleissl, University of California, San Diego, USA Title: Solar Forecasting</li> </ul>					
				12:00h Q&A and panel discussion		
				12:30 -	Lunch Break	
	14:00h					
14:00 -	Session 1: PV in Grids	Session 2: PV Monitoring				
17:30h	14:00 Opening by Jonathan Leloux,	14:00h Opening by Wilfried van Sark, Utrecht				
	LuciSun, Brussels, Belgium	University, the Netherlands				
	14:05 Rodrigo Silva e Amaro (Mines	14:05h Anne Gerd Imenes (University of				
	ParisTech, France) Title: Novel forecasting method applied to PV	Agder, Kristiansand, Norway) Title: Keynote tbo				
	14:30 Eduardo Fernandez (University of	14:35h Maria Hadjipanayi (University of				
	Jaén, Spain) Title: Advances in Photovoltaic	Cyprus, Nicosia, Cyprus) Title: PV monitoring				







IN SCIENCE	Technology: current activities and future			
	actions			
	15:00 Ibrahim el Boujdaini (LuciSun, Belgium) Title: Analysis of the state of the art and performance of more than one decade of residential PV in Brussels (11.000+ PV installations)	15:05h Paolo Graniero (Helmholtz-Zentrum Berlin, Berlin, Germany) Title: Comparison of unsupervised algorithms for PV fault detection, and data sources for power nowcasting		
	15:30 Refreshments	15:30h Refreshments		
	16:00 Leonardo Micheli (*) Title: Advances and perspectives in agrivoltaic applications in Europe	16:00h Bogdan Burduhos (Transilvania University of Brasov, Brasov, Romania) Title: PV monitoring small systems		
	16:30 Grazia Barchi (EURAC, Italy) Title: Assessment and countermeasures of the PV systems integration in distribution power grids	16:20h Bhavya Kausika (Cadastre NL, Zwolle, the Netherlands) Title: GeoAl for detection of Solar Photovoltaic installations in the Netherlands		
	17:30 Emilio Muñoz (University of Jaén, Spain) Title: Photovoltaic engineering epplications: alternatives to standard designs	16:40h Ben Laevens (Statistics Netherlands, The Hague, the Netherlands) Title: An Observational method for determining daily and regional photovoltaic solar energy statistics		
		17:00h Lennard Visser (Utrecht University, Utrecht, the Netherlands) Title: Operational day-ahead solar power forecasting for aggregated PV systems with a varying spatial distribution		
		17:20h Closing remarks by Wilfried van Sark, Utrecht University, the Netherlands		
17:30 – 19:00h	Break			
19:00 – 22:00h	Evening Program with Group Dinner			
Day 2: 15 March 2022				
9:00 - 12:30h	Session 3: Reliability and Durability of PV	Session 4: PV Simulation of PV of PV of PV		
	9:00h Opening by Jeff Kettle, University of Glasgow, United Kingdom	9:00h Opening by Nicola Pearsall, Northumbria University, United Kingdom		
	9:10h Gernot Oreski (PCCL, Austria) Title: Future challenges for PV module reliability	9:15h TBC Title: PVGIS Update		
	9:40h TBC (*) Title: TBC	9:40h Bruno Wittmer (PVSyst) Title: PVSyst development		
	10:05 Mirjam Theelen (TNO, Eindhoven, the Netherlands) Title: PID reliability challenges in CIGS modules	10:05h Anja Neubert (DNVGL) Title: SolarFarmer approach		







	10:30h Coffee & tea break		
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	11:20h Hugo Quest (Ecole Polytechnique Fédérale de Lausanne (EPFL), Neuchâtel, Switzerland) Title: Solar irradiance classification for improved PV performance assessments	11:00h TBC (*) Title: TBC	
	11:40h Atse Louwen (EURAC, Bolsano, Italy) Collaborative development and comparison of fault detection algorithms using the PearlPV CKAN database	11:40h Jesus Robledo Bueno (LuciSun, Brussels, Belgium) Title: Simulating complex systems	
	12:00h Reza Aghaei (NTNU, Norway) Title: Al technology for PV condition monitoring	12:20h Discussion and closing remarks by Nicola Pearsall, Northumbria University, United Kingdom	
12:30 -	Lunch Break		
14:00h			
14:00 -	Session 5: PV in the built	Workshop: PV Data Challenge	
17:00h	environment		
	Programme to be announced soon	Programme to be announced soon	
17:00 –	Break		
17:15h			
17:15 –	Plenary Session		
18:15h			
	Wrap up and closure of the conference by		
	Prof. dr. Wilfried van Sark, Utrecht University, the Netherlands		
	Prof. dr. Angele keinders, University of Twente, TU/e, the Netherlands		
18:15 –	Break		
19:00h	2.641		
13.0011	Evening Program with Group Dinner		
19:00 -	22:00h		
19:00 –			
19:00 – 22:00h	March 2022		
19:00 – 22:00h		airport Schiphol, Amsterdam	
17:15h 17:15 – 18:15h	Plenary Session  Wrap up and closure of the conference by Prof. dr. Wilfried van Sark, Utrecht University, the Netherlands Dr. David Moser, EURAC, Italy Prof. dr. Angèle Reinders, University of Twente, TU/e, the Netherlands  Break		