

# Partnership Development Workshop

## 2<sup>nd</sup> Indo-UK PV Soiling Workshop

24<sup>th</sup> and 25<sup>th</sup> January 2022 | Venue: Microsoft Teams

### Program on : 24<sup>th</sup> January 2022 (Day 1)

India Time (IST)/ Greenwich Mean Time (GMT)	Title	Speaker and Affiliation
14:30 – 14:40 (IST) / 09:00 – 09:10 (GMT)	<i>Welcome Address</i>	Prof. Anil Kottantharayil, Indian Institute of Technology Bombay, India
14:40 – 15:10 (IST) / 09:10 – 09:40 (GMT)	<i>Development &amp; Performance Evaluation of Stable Antisoiling Coatings (Hydrophobic vs Hydrophilic) for PV Application</i>	Sakthivel ShanmugaSundaram , International Advanced Research Centre for Powder Metallurgy and New Materials, Hyderabad, India
15:10 – 15:25 (IST) / 09:40 – 09:55 (GMT)	<i>Modeling to study efficacy of polysilane based transparent anti-soiling coating to reduce energy yield loss in PV module</i>	Saheli Sengupta & Deepanjana Adak, Indian Institute of Engineering Science and Technology, Shibpur, India
15:25 – 15:55 (IST) / 09:55 – 10:25 (GMT)	<i>The importance of surface chemistry and topography on wetting behaviour – understanding how materials chemistry influences soiling behaviour</i>	Alan Taylor, The Welding Institute, UK
15:55 – 16:10 (IST) / 10:25 – 10:40 (GMT)	<i>Combined Anti-reflection and Anti- soiling Coatings for Solar Modules</i>	Adam M Law, Loughborough University, UK
16:10 – 16:20 (IST) / 10:40 – 10:50 (GMT)	Interactive session (Question and answer session and break)	

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16:20 – 16:35 (IST) / 10:50 – 11:05 (GMT)	<i>A robust method for the development of Anti-reflective and self-cleaning coatings</i>	Pradhan Mamata , Indian Institute of Technology Bombay, India
16:35 – 16:50 (IST) / 11:05 – 11:20 (GMT)	<i>Mechanical Abrasion on Commercial Single Layer, Porous Silica, Anti- Reflection Coatings and Multi-Layer Anti-reflection coatings</i>	Farwah Bukhari, Loughborough University, UK
16:50 – 17:20 (IST) / 11:20 – 11:50 (GMT)	<i>Degradation mechanisms reducing the durability of hydrophobic anti-soiling coatings</i>	Luke Jones, Loughborough University, UK
17.20 – 17:30 (IST) / 11:50 – 12:00 (GMT)	<i>Concluding Remarks and Interactive session (Question and answer session)</i>	

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India Time (IST)/ Greenwich Mean Time (GMT)	Title	Speaker and Affiliation
14:30 – 14:40 (IST) / 09:00 – 09:10 (GMT)	<i>Welcome Address</i>	Prof. John Michael Walls, Loughborough University, UK
14:40 – 15:10 (IST) / 09:10 – 09:40 (GMT)	<i>Hydrophobic Surfaces: Learning from Nature</i>	Claire Carmalt, University College, London, UK
15:10 – 15:25 (IST) / 09:40 – 09:55 (GMT)	<i>Mitigation of Soiling related losses in Solar Panels by Electrodynamics Screens (EDS)</i>	Silajit Manna, Indian Institute of Engineering Science and Technology, Shibpur, India
15:25 – 15:55 (IST) / 09:55 – 10:25 (GMT)	<i>Use of aerial Inspection and data analytics for soiling assessment</i>	Will Hitchcock, Above Surveying Ltd, UK
15:55 – 16:10 (IST) / 10:25 – 10:40 (GMT)	<i>Comparative Study of Commercially used Field Mounted Soiling Measurement Devices for Solar PV System</i>	Pavan Fuke, Indian Institute of Technology Bombay, India
16:10 – 16:20 (IST) / 10:40 – 10:50 (GMT)	Interactive session (Question and answer session and break)	

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16:20 – 16:35 (IST) / 10:50 – 11:05 (GMT)	<i>Soiling Mapping Through Optical Losses in India</i>	Yusuf Chanchangi / Tapas Mallick , University of Exeter, UK
16:35 – 16:50 (IST) / 11:05 – 11:20 (GMT)	<i>Reliability of anti-soiling coatings</i>	Sonali Bhaduri, Indian Institute of Technology Bombay, India
16:50 – 17:20 (IST) / 11:20 – 11:50 (GMT)	<i>The IEC 62788-7-3 abrasion methods standard and supporting experiments at NREL on PV surfaces and coatings</i>	Jimmy Newkirk, Joanna Bomber, Joshua Morse, and David Miller, National Renewable Energy Laboratory, USA
17.20 – 17:30 (IST) / 11:50 – 12:00 (GMT)	Concluding Remarks and Interactive session (Question and answer session)	

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