

Agenda

DTU Risø Campus, (Denmark), 29.-30.04.2025



Tuesday, April 29th

8:30 - 9:00	Registration	
09:00 – 09:15	Welcome	Karl-Anders Weiß, (ISE)
09:15 - 10:45	Block I "Field experience and inspection methods"	
	<ul style="list-style-type: none">Field experience of single-axis solar trackers	Nicholas Riedel-Lyngskær, (European Energy)
	<ul style="list-style-type: none">Field imaging inspection methods and tools for PV plants	Sergiu Spataru, (DTU)
	<ul style="list-style-type: none">Utilization of smart string inverters for advanced inspection and monitoring of PV systems	Lukas Koester, (EURAC)
10:45 - 11:15	<i>Coffee Break</i>	
11:15 - 12:45	Block II "Lightweight glass-free modules"	
	<ul style="list-style-type: none">Characterization and reliability test protocols for lightweight/glass-free PV components and modules	Gabi Eder, (OFI)
	<ul style="list-style-type: none">Reliability tests and certification of customized flexible glass-free PV modules	Piero Spinelli, (TNO)
	<ul style="list-style-type: none">Mechanical reliability studies on Glass based and lightweight PV modules at TNO	Jan Kroon, (TNO)
12:45 - 14:00	<i>Lunch Break</i>	
14:00 - 15:30	Block III "Mechanical Stabability"	
	<ul style="list-style-type: none">UTG Integration in CIGS PV Modules: Boosting Durability and Performance	Nikolina Pervan, (PCCL)
	<ul style="list-style-type: none">Mechanical module stability and reliability of eco-designed PV modules	Timea Béjat, (CEA liten)

15th SOPHIA PV-Module Reliability Workshop

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• Tbd.

Tbd.

15:30 – 16:00 *Coffee Break*

16:00 - 17:00 **Block IV Webinar TASK13: "Strategies for Addressing Important Degradation and Failure Causes of Current Module Types"**

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| • Introduction | Karl-Anders Weiß, (ISE) |
| • What can we learn from the comparison of glass breakage between Lab and Field? | Jochen Markert, (ISE), Marc Köntges, (ISFH) |
| • How to handle UVID for TOPCon and SHJ modules | Laura S. Bruckman, (CASE), Ina Martin, (CASE) |
| • How to deal with cold solder joints in JB of current module designs | Marc Köntges, (ISFH), Jay Lin, (PV GUIDER) |

17:00 *End of Day 1 and Conference Dinner*

Wednesday, April 30th

08:30 - 09:00 **Registration**

09:00 - 10:30 **Block V "Discussion Round"**

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| • Reliability/certification of lightweight modules /image ... | Ingrid Hädrich, (ISE) |
| • Reasonable lifetime to aim for: 15 or 50a?? | Karl-Anders Weiß, (ISE) |
| • Future of field inspection | Sergiu Spataru, (DTU) |

10:30 – 11:00 *Coffee Break*

11:00 – 12:30 **Block VI "Modelling"**

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| • From Modeling to Field Validation: Enhancing PV Performance and Reliability | Yaman Al-Riyalat, (BayWa) |
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- Benchmarking Power Loss Simulation Models for Cracked Photovoltaic Cells Using Electroluminescence Images: The Effect of Daylight and Image Resolution

Rodrigo Del Prado
Santamaria, (DTU)

- Long-Term Evaluation of Outdoor Performance and Degradation of Perovskite Modules in Various Climates

Sujith Vishwanathreddy,
(IMEC)

12:30 - 13:00 **Plenary Discussion & Sum up**

13:00 *End of Workshop*
LAB-Tour (optional)

Until 4:00 pm