

Announcement (2)

10th SOPHIA Workshop PV-Module Reliability

May $28^{th} - 29^{th}$, 2020, EPFL École Polytechnique Fédérale de Lausanne, Neuchâtel, Switzerland **OBJECTIVES:**

REQUIREMENTS OF NEW AND UPCOMING PV APPLICATIONS FOR MATERIAL SELECTION AND **RELIABILITY ASSESSMENT**

THE WORKSHOP IS POSTPONED UNTIL SPRING 2021. We thank you for your interest with a short webinar, which will be held on 28 and 29 May 2020. Further information will The École Polytechnique Fédérale de Lausanne EPFL (Switzerland) Solar Energy Systems ISE (Germany) are proud to invite Reliability' in Neuchâtel, Switzerland. The 2020 applications in service life prediction model sustainability will be presented and further This year's topics of the workshop are:

Building Integrated PV (BIPV)

With increasing regulatory pressure, such as BIPV will play a significantly increasing role in environment vary greatly from typical PV systems

Novel applications: special and innovative

New applications of PV modules and systems like ed PV or Agro-PV come along reliability and how can the specific with specific operational conditions and loads. H conditions be addressed?

Bifacial modules

Bifacial modules are more and more present in the market and forecasts expect further growth of this technology in future. The special load conditions and related effects on materials and impacts on module reliability will be in the focus of this session.

Advancements in lifetime modelling

How can reliability and degradation models be improved to predict the development of PV modules and plants?

Sustainability

Interdependence of Reliability and Sustainability and legislative effects, including the outcomes of the EU EcoLabel preparatory study.

Recent failure mode testing

Recent failure modes like LeTID call for adapted testing to be developed and validated.

Regular Registration fees: 430 EUR – Early Bird Discount until April 15th: 380 EUR Registration fees for Students: 330 EUR - Early Bird Fee for Students until April 15th: 280 EUR

For more information and for **registration** please visit the workshop's website:

www.pv-reliability.com

Structure

pundtable sessions and discussions.

rain: Materials, Climate, Performance evolution – Everything is connected

- c) Testing and characterization of PV modules
- d) Field performance losses and service life prediction
- e) Moisture ingress in PV modules > Stefan Mitterhofer, Uni Ljubljana

Block 5: Integrated PV & novel applications

- a) Floating PV
- b) Reliability of flexible CIGS modules > Eleonora Annigoni, FLISOM
- c) Lightweight PV modules for multiple applications > Fabiana Lisco, EPFL

Block 6: Recent technology developments and failure modes

- a) SHJ, passivated contacts
- b) LeTID > Daniel Philipp, ISE
- c) Roundtable Session "Novel applications, technologies and testing requirements" & Discussion

Block 7: Field experiences

- a) Assessment of multiple PV systems' reliability in desert environment in Doha Qatar > Vinod Madhavan, QEERI
- b) Field module characterization > Andrew Fairbrother, EPFL
- c) Challenges of Operation and Maintenance

Final Roundtable session, discussion and sum up

Optional Block 8: Labtour at EPFL



Fraunhofer ISE, Dr. Karl-Anders Weiß

-Garcia, JRC

Host

EPFL, Dr. Alessandro Virtuani

For questions please contact

karine.frossard@epfl.ch kerstin.koerner-ruf@ise.fraunhofer.de