



 Empa
Akademie



WORKSHOP

Industrialization of Perovskite Thin Film Photovoltaic Technology



Sala Town Hall
Perugia Centro Congressi, IT

Thursday, 18 September 2025
from 9:00 to 16:00 CET

TOPIC

The advent of hybrid perovskites in the family of solar cell technologies is spurring tremendous research activities worldwide. The major thrust for endorsing this thin film technology consists of the competitive power conversion efficiencies, low manufacturing costs and interoperability with well-established technologies such as crystalline silicon and CIGS.

Following the huge research effort with thousands of scientific publications every year, industrial implementation has gained impetus. This workshop shall capture the most important developments in the field of industrialization of perovskite solar cells by bringing together a panel of industrial representatives of the major players.

TARGET AUDIENCE

With this workshop we intend to update and inform about the progresses made and challenges faced by companies pushing forward industrialization of perovskite solar cells. Targeted are scientists and engineers in the field of solar cells as well as industrialists and investors being interested in this growing sector.

POSTER

Posters are welcome and boards will be available. Please contact the conference office.

REGISTRATION

Fee: 180 Euro (incl. VAT)

Please register at:

<https://www.pSCO-conference.org/>

Deadline: 31 July 2025

PROGRAM COMMITTEE

Prof. Frank A. Nüesch

Dr. Fan Fu

Empa

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CONFERENCE OFFICE

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SPONSORING

- Greatcell Solar Materials Pty Ltd
- nsm Norbert Schläfli AG
- Perovskia Solar SA
- TSE Troller AG

PROGRAM

08:30 Registration

09:00 Opening
Prof. F. Nüesch, Empa, Dübendorf (CH)

09:10 4-T tandem solution by GCL
Dr. F. Bin, GCL-Power, Suzhou (CN)

09:30 The crucial role that equipment suppliers play in the commercialisation of perovskite solar manufacturing
Dr. C. Case, Oxford PV, Oxford (UK)

09:50 Upscaling 4T bifacial tandem solar modules in Europe: From lab to GW production
Dr. F. Di Giacomo, Solertix S.r.l, Rome (IT)

10:10 High yield production of perovskite solar module and applications
Dr. B. Yan, Microquanta Semiconductor, Hangzhou (CN)

10:30 Coffee break - Poster session

11:20 Independent outdoor testing of commercial perovskite & tandem modules
Prof. M. A. Green, J. Jiang, M. Keevers, Z. Zhou, A. Gentle UNSW, Sydney (AU)

11:40 Outdoor performance of MW-scale perovskite PV system
Dr. H. Tan, Renshine Solar, Suzhou (CN)

12:00 Sponsor pitches

12:30 Lunch

14:10 Efficiency enhancement and cost reduction of PSC using inkjet printing technology
Mr. Y. Iizuka, Panasonic Production Engineering Co., Ltd., Osaka (JP)

14:30 Unlocking the future of solar: Singfilm Solar's journey toward industrial-scale perovskite commercialization
Prof. Y. Hou, Singfilm Solar, Singapore (SG)

14:50 Perovskite development at First Solar
Dr. O. Lundberg, First Solar's European Technology Center (ETC), Uppsala (SE)

15:10 Ambient light powered IoT devices using custom designed Perovskia solar cells
Dr. T. Meyer, Perovskia Solar SA, Aubonne (CH)

15:30 Transforming μ LED displays:
The perovskite revolution
Dr. B. Wenger, Helio Display Materials, Oxford (UK)

15:50 Short conclusions
Prof. F. Nüesch, Empa, Dübendorf (CH)

Perugia Congress Centre: 26 meeting rooms dedicated to Jazz and Auditorium with 700 seating places. Hotel Giò – Perugia Centro Congressi proposes itself as a functional structure, point of reference for the central area in Italy. Two Halls (Jazz Hall and Wine Hall) with secluded areas expressly developed for informal meeting, living bar for aperitif and coffee break and comfortable working and reading corners. Ideal for Workshops with its adjustable rooms, thanks to movable deafen walls.

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