

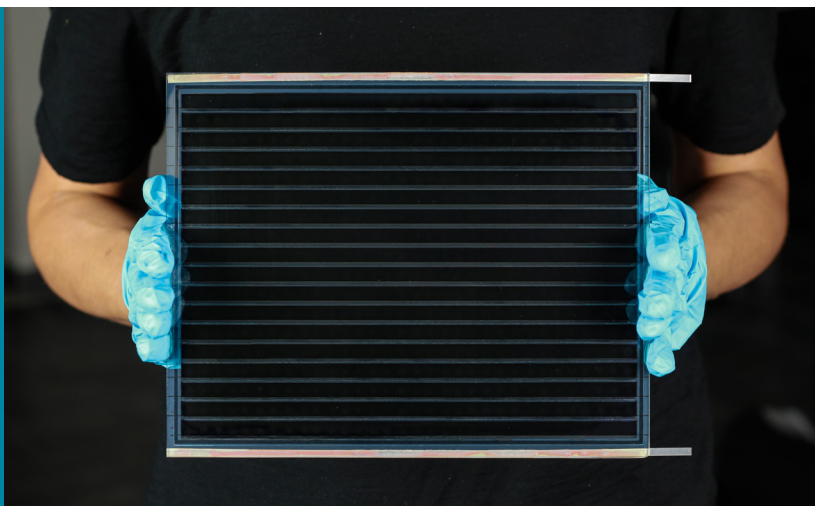


Empa
Akademie



WORKSHOP

Industrialization of Perovskite Thin Film Photovoltaic Technology



Mathematical Institute, Lecture Theatre L2
University of Oxford (UK)

Thursday, 21 September 2023
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 raising field.

POSTER

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

REGISTRATION

Fee: 85 GBP

Please register at:

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

Deadline: 31 July 2023

PROGRAM COMMITTEE

Prof. Frank A. Nüesch

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SPONSORING

FOM Technologies

Greatcell Solar Materials

nsm Norbert Schläfli AG

Perovskia Solar AG

TSE Troller AG

ROWO Coating GmbH

PROGRAM

- 8:00 Registration
- 9:00 Opening
Prof. F. Nüesch, Empa, Dübendorf (CH)
- 9:10 Title tba
Dr. C. Case, Oxford PV, Oxford (UK)
- 9:30 100 MW perovskite module production line at GCL
Dr. F. Bin, GCL-Power, Suzhou (CN)
- 9:50 Report of full size perovskite module passing whole sequence of IEC61215 and IEC61730
Dr. B. Yan, Microquanta Semiconductor, Hangzhou (CN)
- 10:10 Pilot manufacturing of efficient perovskite tandem solar cells
Dr. Max Hörantner, Swift Solar, San Carlos (USA)
- 10:30 Coffee break – Poster session
- 11:20 Scalable interface modifications to minimize cell to module performance gap
Dr. T. Aernouts, Solliance/IMEC, Eindhoven (NL)
- 11:40 Paths toward the commercialization of all-perovskite tandem solar cells
Dr. H. Tan, Renshine Solar, Suzhou (CN)
- 12:00 Upscaling perovskite PV for indoor light harvesting: use cases, progress and challenges
Dr. D. Forgacs, Sauletech, Warsaw (PL)
- 12:20 Progress of perovskite photovoltaics at Utmolight
Prof. M. K. Nazeeruddin, Utmolight, Wuxi (CN)
- 12:40 Sponsor pitches
- 13:00 Apéro riche
- 14:00 Overview of perovskite development at First Solar
Dr. Bill Huber, First Solar, Perrysburg (USA)
- 14:20 Requirements and challenges for industry implementation of tandem technology
Dr. R. Niemann, Hanwha Q-Cells, Bitterfeld-Wolfen (D)
- 14:40 Perovskite powered products
A. Verma, Perovskia, Aubonne (CH)
- 15:00 The process of building a perovskite solar panel
Dr. Diego Bagnis, Oninn, Belo Horizonte-MG (BR)
- 15:20 Perovskites in displays: from colour conversion to LEDs
Dr. B. Wenger, Helio Display Materials, Oxford (UK)
- 15:40 Short conclusions
Prof. F. Nüesch, Empa, Dübendorf (CH)

Mathematics is the engine behind Science in the 21st Century. It has both an inherent logic and beauty while also providing the structure and models from which physicists, chemists, biologists, medics, engineers, economists and social scientists build an understanding of our world and construct the tools to improve our lives. It is therefore a particular award to be hosted in the rooms of the mathematical institute at Oxford University. All rooms have generous reception spaces outside for hospitality and catering, poster sessions and exhibitor stands. All our rooms come with state of the art audio-visual equipment and have full disabled access. Wifi is available throughout the building. For more information on our accessibility policies, *please click here*.

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