



Empa
Akademie



WORKSHOP

Industrialization of Perovskite Thin Film Photovoltaic Technology



Sala Town Hall
Perugia Centro Congressi, IT

Thursday, 19 September 2024
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: 150 Euro

Please register at:

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

Deadline: 31 July 2024

PROGRAM COMMITTEE

Prof. Frank A. Nüesch

Dr. Fan Fu

Empa

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CONFERENCE OFFICE

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SPONSORING

- nsm Norbert Schläfli AG
- greatcellsolar materials
- Perovskia Solar AG
- FOM Technologies

PROGRAM

- 8:00 Registration
- 9:00 Opening
Prof. F. Nüesch, Empa, Dübendorf (CH)
- 9:10 Large area tandem module by GCL
Dr. F. Bin, GCL-Power, Suzhou (CN)
- 9:30 Upscaling of carbon-based perovskite solar cells
L. Correa, Rayleigh Solar Tech, Halifax, Nova Scotia (CAN)
- 9:50 Setting up Perovskite Solar production factory
A. Verma, Perovskia, Aubonne (CH)
- 10:10 Performance of perovskite single junction modules in a MWs perovskite solar farm and progress on GW plants
Dr. B. Yan, Microquanta Semiconductor, Hangzhou (CN)
- 10:30 Coffee break – Poster session
- 11:20 Now that we have tandem modules in production, what is next?
Dr. C. Case, Oxford PV, Oxford (UK)
- 11:40 Endeavors on commercialization of perovskite-silicon tandem photovoltaics at Swift Solar
Dr. D. Zhang, Swift Solar, San Carlos (USA)
- 12:00 Perovskite PV, scalable and stable?
Dr. T. Aernouts, Solliance/IMEC, Eindhoven (NL)
- 12:20 Highly efficient perovskite/chalcopyrite tandem solar cells via scalable dry process
Dr. M. Nakamura, PXP Corporation, Kanagawa, (JPN)
- 12:40 Sponsor pitches
- 13:00 Apéro riche
- 14:00 Perovskite R&D at First Solar
Dr. B. Huber, First Solar, Perrysburg (USA)
- 14:20 Industrialization progress of perovskite PV Tech at Renshine Solar
Dr. Y. Liu, Renshine Solar, Suzhou (CN)
- 14:40 Perovskite development at Oninn: Panel construction overview
Dr. D. Bagnis, Oninn, Belo Horizonte-MG (BR)
- 15:00 Market readiness assessment: case study on Saule Technologies' journey towards commercializing PSCs
Dr. Olga Malinkiewicz, Sauletech, Warsaw (PL)
- 15:20 Recent progress of PSC commercialisation at Utmolight
Prof. M. K. Nazeeruddin, Utmolight, Wuxi (CN)
- 15:40 Addressing the challenges of AR microdisplays with perovskites
Dr. B. Wenger, Helio Display Materials, Oxford (UK)
- 16:00 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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