

EPFL Open Science Workshop on Solar Fuels Standards and Benchmarking

6-7th December, 2021

Program (In-person attendees)

All times listed are Central European Time (UTC+01:00)

Location: SwissTech Convention Center, Garden 4/STCC 0 7632



Day 1 - 6th December 2021

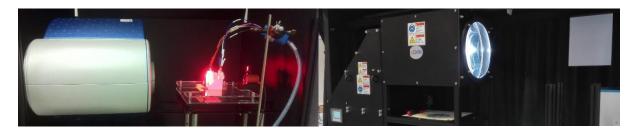
Session 1: Overview of Solar Fuels Database

10:00-10:15	Welcome Prof. Sophia Haussener, EFPL
10:15-11:00	Overview of Solar Fuels Database Dr. Isaac Holmes-Gentle, EPFL
11:00-11:30	Discussion
11:30-13:30	Lunch

Session 2: Benchmarking

13:30-14:00	Invited talk: "Benchmarking Artificial Leaves, Sheets & Panels for Solar Chemistry" Prof. Erwin Reisner, Univ. of Cambridge
14:00-14:30	Invited talk: "Measurement and reporting protocols for heterogeneous photocatalysis" Prof. Kazuhiro Takanabe, The Univ. of Tokyo
14:30-15:00	Invited talk: Importance of Community Engagement in Developing Benchmarks and Protocols Dr. Kathy Ayers, NEL
15:00-15:30	Invited talk: "Benchmarking Solar-to-Hydrogen Efficiency: Approaches for Improved Measurement Accuracy" Dr. Todd Deutsch, NREL
15:30-16:30	Moderated panel / discussions
16:30-17:00	Coffee break
17:00-18:00	Laboratory tours





Day 2 - 7th December 2021

Session 3: Degradation and Materials

09:30-10:00	Invited talk: "Chemical transformations of (photo)electrocatalytic materials" Dr. Francesca Toma, Lawrence Berkeley National Laboratory
10:00-10:30	Invited talk: "Identification of degradation pathways in photoelectrochemical systems" Dr. Vincent Artero, Univ. Grenoble Alpes/CNRS/CEA Grenoble
10:30-11:00	Invited talk: "Interrogating Earth-abundant metal oxide photoelectrodes with electrical and optical spectroscopies" Prof. Sixto Gimenez, Universitat Jaume I
11:00-11:30	Invited talk: "Dynamic photoelectrochemical responses as diagnostic tools for stability, charge transfer and recombination losses" Prof. David Fermin, University of Bristol
11:30-12:30	Moderated panel / discussions
12:30-14:30	Lunch

Session 4: Demonstrations and Characterization

14:30-15:00	Virtual lab visit HZB/EPFL
15:00-15:30	Invited talk: "Solar Hydrogen Production at Scale: Scale-up and Demonstration" Prof. Jae Sung Lee, UNIST
15:30-16:00	Invited talk: "Solar Fuel Devices: From Water Splitting to Water Dissociation" Prof. Chengxiang Xiang, Caltech
16:00-16:30	Moderated panel / discussions
16:30-17:00	Coffee break
17:00-18:00	Laboratory tours