

EPFL Open Science Workshop on Solar Fuels Standards and Benchmarking

6-7th December, 2021

Program (for online attendees)

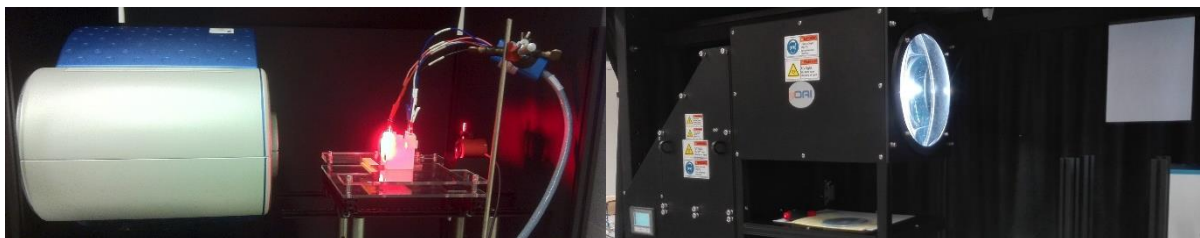
Times if not specified are listed in Central European Time (UTC+01:00)

**Day 1 – 6th December 2021 (CET UTC+1)**Zoom link for 6th Dec: <https://epfl.zoom.us/j/68061331862>**Session 1: Overview of Solar Fuels Database**

10:00-10:15	Welcome <i>Prof. Sophia Haussener, EPFL</i>
10:15-11:00	Overview of Solar Fuels Database <i>Dr. Isaac Holmes-Gentle, EPFL</i>
11:00-11:30	Discussion

Session 2: Benchmarking

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



Day 2 – 7th December 2021

For Dec 7: <https://epfl.zoom.us/j/64599514371>

Session 3: Degradation and Materials

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

Session 4: Demonstrations and Characterization

14:30-15:00	Virtual lab visit <i>HZB/EPFL</i>
15:00-15:30	Invited talk: “Solar Hydrogen Production at Scale: Scale-up and Demonstration” <i>Prof. Jae Sung Lee, UNIST</i>
15:30-16:00	Invited talk: “Solar Fuel Devices: From Water Splitting to Water Dissociation” <i>Prof. Chengxiang Xiang, Caltech</i>
16:00-16:30	Moderated panel / discussions



In order to convert the workshop program to your timezone, a timezone calculator can be useful: [Click here](#)

In order to use the table below, please find your UTC offset here: [Click here](#). As an example, on the 6th Dec New York, USA is in Eastern Standard Time (EST) which is UTC-5.

Key: 5th Dec 6th Dec 7th Dec 8th Dec

			UTC																								
			-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12
CET (UTC +1)	Description	Speaker	Day 1:																								
			10:00-10:15	Welcome	Prof. Sophia Haussener	21:00	22:00	23:00	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
10:15-11:00	Overview SolarFuelsDB	Dr. Isaac Holmes-Gentle	21:15	22:15	23:15	00:15	01:15	02:15	03:15	04:15	05:15	06:15	07:15	08:15	09:15	10:15	11:15	12:15	13:15	14:15	15:15	16:15	17:15	18:15	19:15	20:15	21:15
11:00-11:30	Discussion session		22:00	23:00	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
13:30-14:00	Invited talk	Prof. Erwin Reisner	00:30	01:30	02:30	03:30	04:30	05:30	06:30	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	20:30	21:30	22:30	23:30	00:30
14:00-14:30	Invited talk	Prof. Kazuhiro Takanabe	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00	01:00
14:30-15:00	Invited talk	Dr. Kayer Ayers	01:30	02:30	03:30	04:30	05:30	06:30	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	20:30	21:30	22:30	23:30	00:30	01:30
15:00-15:30	Invited talk	Dr. Todd Deutsch	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00	01:00	02:00
15:30-16:30	Panel discussion		02:30	03:30	04:30	05:30	06:30	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	20:30	21:30	22:30	23:30	00:30	01:30	02:30
			Day 2:																								
09:30-10:00	Invited talk	Dr. Francesca Toma	20:30	21:30	22:30	23:30	00:30	01:30	02:30	03:30	04:30	05:30	06:30	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	20:30
10:00-10:30	Invited talk	Dr. Vincent Artero	21:00	22:00	23:00	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00
10:30-11:00	Invited talk	Prof. Sixto Gimenez	21:30	22:30	23:30	00:30	01:30	02:30	03:30	04:30	05:30	06:30	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	20:30	21:30
11:00-11:30	Invited talk	Prof. David Fermin	22:00	23:00	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
11:30-12:30	Panel discussion		22:30	23:30	00:30	01:30	02:30	03:30	04:30	05:30	06:30	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	20:30	21:30	22:30
14:30-15:00	Virtual lab visit	HZB/EPFL	01:30	02:30	03:30	04:30	05:30	06:30	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	20:30	21:30	22:30	23:30	00:30	01:30
15:00-15:30	Invited talk	Prof. Jae Sung Lee	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00	01:00	02:00
15:30-16:00	Invited talk	Prof. Chengxiang Xiang	02:30	03:30	04:30	05:30	06:30	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	20:30	21:30	22:30	23:30	00:30	01:30	02:30
16:00-16:30	Panel discussion		03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00	01:00	02:00	03:00