



University of
Zurich ^{UZH}



URPP Solar Light to Chemical Energy Conversion

LightChEC Symposium and Summer School 2022

Sunday, 4 September – Thursday, 8 September
Eurotel Victoria, Les Diablerets, Switzerland



Lac Retaud, Les Diablerets – Gabriel Garcia Marengo (CC BY 2.0)

The program is subject to change

Sunday, 4 September

16:00 – 18:00 Arrival and registration

18:00 – 20:00 Welcome dinner

20:00 – **Poster Session A**

Symposium

Monday, 5 September

08:45 – 09:00 **Welcome**
Prof. Greta Patzke, LightChEC – University of Zurich, Switzerland

Chair: Prof. Roger Alberto, University of Zurich

09:00 – 09:40 **LightChEC Talk: Operando Spectroscopic Unveiling of the Structural Motif Dynamics in NiFe-based Coordination Polymers for Water Oxidation**
Dr. Yonggui Zhao, LightChEC – University of Zurich, Switzerland

09:40 – 10:40 **Repairing Efficient Light-driven Catalysts for Hydrogen Generation**
Prof. Sven Rau, CataLight, Germany

10:40 – 11:10 Coffee break

11:15 – 12:15 **Decarbonization of Industrial H₂ Production**
Dr. Gabriele Colombo, Casale SA, Switzerland

12:15 – 13:45 Lunch break
Remove posters A / Post posters B

Chair: Prof. Greta Patzke, University of Zurich

13:45 – 14:45 **Electrochemical CO₂ Capture, Concentration, and Conversion**
Prof. Jenny Y. Yang, University of California, Irvine, USA

14:45 – 15:45 **Electrocatalytic CO₂ Reduction to Multicarbon Products with Hybrid Cu-Organic Electrodes**
Prof. Theodor Agapie, California Institute of Technology, USA

15:45 – 16:10 Coffee break

16:10 – 17:10 **Design of Molecular Catalysts for Hydride Transfer Reactions and Electrocatalytic Oxidation of Alcohols**
Dr. Aaron Appel, Pacific Northwest National Laboratory, USA

18:00 – 20:00 Dinner

20:00 – **Poster Session B**

Summer School

Tuesday, 6 September

Chair: Prof. Peter Hamm, LightChEC – University of Zurich

08:30 – 10:30 **Session 1: Ways to Accelerate Molecular Catalysis in Heterogeneous Systems - or - What Is Limiting?**
Prof. Sascha Ott, Uppsala University, Sweden

10:30 – 11:00 Coffee break

11:00 – 12:30 Session 1 continued / group work

12:30 – 14:00 Lunch

14:00 – 19:00 Networking
Free Time / Outdoor activity

19:00 – Special Dinner

Wednesday, 7 September

Chair: Dr. Andreas Borgschulte, LightChEC – Empa

08:30 – 10:30 **Session 2: Determining Molecular and Materials Component Stability in Light-driven Catalysis**
Prof. Carsten Streb, Johannes Gutenberg University Mainz, Germany

10:30 – 11:00 Coffee break

11:00 – 12:30 Session 2 continued / group work

12:30 – 14:00 Lunch

Chair: Prof. Sandra Lubner, LightChEC – University of Zurich

14:00 – 16:00 **Session 3: Quantum Dynamics on Nanoscale: Nonadiabatic Molecular Dynamics, Real-Time Time-Dependent DFT and Machine Learning**
Prof. Oleg Prezhdo, University of Southern California, USA

16:00 – 16:30 Coffee Break

16:30 – 18:00 Session 3 continued / group work

19:00 – Dinner

WiFi: eurotel_victoria User ID: ***

Thursday, 8 September

Chair: Prof. David Tilley, LightChEC – University of Zurich

08:30 – 10:30 **Session 4: From Spectroscopic Datasets to Band Diagrams – a Pathway to Understanding Inorganic Chemistry of Photoactive Solid-state Materials**
Prof. Ludmilla Steier, University of Oxford, United Kingdom

10:30 – 11:00 Coffee break

11:00 – 12:30 Session 4 continued / group work

12:30 – 14:00 Lunch

14:00 – 14:30 **Poster awards**
Closing remarks

14:30 End of Summer School and departure of participants

We gratefully thank the University of Zurich and our sponsors for supporting the URPP LightChEC Summer School

Swiss Industry Science Fund (SISF)



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SCS
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Organisation, general questions

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Emergency numbers

Ambulance: 144 Police: 117 Rega: 1414 (mountain rescue)



location