



Universität
Zürich ^{UZH}



LightChEC Symposium and Summer School 2018

Solar Light to Chemical Energy Conversion

Eurotel Victoria, Les Diablerets, Switzerland

Sunday, August 19th to Thursday, August 23rd 2018



PROGRAM

The program is subject to change without notice.





Sunday, August 19, 2018

16:00 – 18:00 **Arrival and Registration**

18:00 – 20:00 Welcome dinner

20:00 – **Poster session**

Symposium

Monday, August 20, 2018

08:45 – 09:00 **Welcome**, Prof. David Tilley

Session chair: Prof. Roger Alberto, UZH

09:00 – 10:00 Prof. Victor Batista, Yale University, USA

Studies of PCET in natural and artificial photosynthesis

10:00 – 10:45 Prof. Sophia Haussener, EPFL, Switzerland

Modelling, experimentation and scaling of photo-electrochemical fuel processing devices

10:45 – 11:15 Coffee break

11:15 – 12:15 Prof. Randolph Thummel, Houston University, USA

Polypyridine transition metal complexes as homogeneous catalysts for water decomposition

12:15 – 13:45 Lunch

Session chair: Prof. Jürg Osterwalder, UZH

13:45 – 14:45 Dr. Andreas Borgschulte, EMPA, Switzerland

Poisonous water - engineering water coverage improves CO₂ reduction catalysts

14:45 – 15:30 Prof. Jürg Hutter, University of Zurich, Switzerland

Molecules at Surfaces: DFT calculations of structure and reactivity

15:30 – 16:00 Coffee break

16:00 – 17:00 Prof. Bruce Parkinson, University of Wyoming, USA

Solar Fuels: the past, present and future prospects

18:00 – 20:00 Dinner

20:00 – **Poster session**



Summer School

Tuesday, August 21, 2018

Session chair: Prof. Roger Alberto, UZH

08:30 – 10:30 **Session 1 - Electrochemistry at interfaces from first principles**

Prof. Jun Cheng, Xiamen University, China

Lecture and intensive discussion

10:30 – 11:00 Coffee Break

11:00 – 12:30 **Group work and presentations**

Chair: Prof. Jun Cheng

12:30 – 14:00 Lunch

14:00 – 19:00 Free Time

19:00 – 21:00 Dinner

Wednesday, August 22, 2018

Session chair: Dr. Andreas Borgschulte, EMPA

08:30 – 10:30 **Session 2 – Operando TEM**

Prof. Eva Olsson, Chalmers University Gothenburg, Sweden

Lecture and intensive discussion

10:30 – 11:00 Coffee Break

11:00 – 12:30 **Group work and presentations**

Chair: Prof. Eva Olsson

12:30 – 14:00 Lunch

Session chair: Prof. David Tilley, UZH

14:00 – 16:00 **Session 3 – Investigating mechanisms in (electro) catalysis by X-ray spectroscopy with synchrotron radiation**

Prof. Holger Dau, FU Berlin, Germany

Lecture and intensive discussion

16:00 – 16:30 Coffee break

16:30 – 18:00 **Group work and presentations**

Chair: Prof. Holger Dau

19:00 – 21:00 Dinner



Thursday, August 23, 2018

Session chair: Prof. Peter Hamm, UZH

08:30 – 10:30 **Session 4 – Understanding Heterogeneous Electrocatalysis at the Molecular Level**

Prof. Yogi Surandraneth, Massachusetts Institute of Technology MIT, USA

Lecture and intensive discussion

10:30 – 11:00 Coffee Break

11:00 – 12:30 **Group work and presentations**

Chair: Prof. Yogi Surandraneth

12:30 – 14:00 Lunch

14:00 – 14:30 Award poster session and closing remarks

14:30 End of the Summer School and departure of participants

Acknowledgment

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