

Venue

Historisches Kaufhaus Münsterplatz 24 79098 Freiburg | Germany





Copyright: FWTM

Scientific Organisation



Prof. Dr. Robert Schlögl

Director

Fritz Haber Institute of the Max Planck Society and Max Planck Institute for Chemical Energy Conversion

robert.schloegl@cec.mpg.de | Phone: +49 208 306 3595



Dr. Christopher Hebling

Director Division, Hydrogen Technologies Fraunhofer Institute for Solar Energy Systems ISE

christopher.hebling@ise.fraunhofer.de | Phone: +49 761 4588 5195

Registration and Workshop Fee

Registration is organised by PSE Conferences & Consulting GmbH online at https://ptl-workshop2018.pse-co.de/.

Number of participants is limited. Registration fee is € 240 for all participants. Dinner Fee is € 50.00 (incl. 19% VAT). Payment has to be done in advance via credit card during online registration.

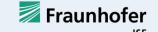
Accommodation

Hotels with special rates for guests of Fraunhofer ISE (Keyword: "Fraunhofer ISE"):

- BEST WESTERN PREMIER Hotel Victoria (www.hotel-victoria.de)
- Inter City Hotel Freiburg (www.intercityhotel.com)
- Hotel Markgräfler Hof (www.markgraeflerhof-freiburg.de)
- Hotel Minerva (www.minerva-freiburg.de)

For registration assistance, please contact Ms. Maria Hemming (hemming@pse-co.de).





International Workshop

Perspectives on Power-to-Liquids and Power-to-Chemicals 2018



June 4th-5th, 2018 Freiburg | Germany





















Introduction

As a follow-up to the first *Perspectives on Power-to-Liquids* and Power-to-Chemicals workshop in 2016, this years edition will bring together relevant stakeholders from academia, industry and politics to discuss, advance and highlight synergies between the growing renewable power generation, H₂ production and CO₂ utilisation targeting at the production of energy carriers, fuels and chemicals. A strong focus will be put on the development and application of technologies leading to products with different sectoral/industrial relevance (e.g. methanol, DME, OME, etc.). The workshop provides a platform for the latest insights on these closely intertwined topics with perspectives between scientific progress and successful market introduction. An evening event in Freiburg will provide an excellent networking opportunity, whilst a tour of the state-of-the-art facilities at the Fraunhofer ISE campus will complement the workshop and discussions. We look forward to welcoming you in Freiburg.



Solar H2 Filling Station at Fraunhofer ISE



Methanol Miniplant at Fraunhofer ISE

Programme: Day 1 | June 4th, 2018

Registration

12:30 **Historisches Kaufhaus** Münsterplatz 24 | 79098 Freiburg | Germany

Welcome Address and Introduction | Dr. Christopher Hebling

13:30 Pathways to an Integrated Energy System

> Prof. Hans-Martin Henning | Director, Fraunhofer ISE Dr. Christopher Hebling | Director, Division Hydrogen Technologies

Session 1: Global Picture & Setting the Scene | Dr. Christopher Hebling

14:00 Fostering Innovation for a Smart Energy Supply and the Sustainable Use of Resources

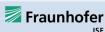
Dr. Lukas Bo Voelkel Regierungsrat Federal Ministry of Education and Research

14:30 Synthetic Fuels as Critical Element in Renewable Energy Strategies

Prof. Robert Schlögl | Director MPI-CEC & FHI-MPG | Germany

15:00 Coffee break





| 15:30 | Towards a Sustainable Future - Risk Transfer Solutions for Green Technologies - Insurance as a Business Enabler |
|-------|---|
| | Stephan Leser Senior Underwriter Munich Re Germany |
| 16:00 | Power-to-Fuels – Japanese Perspective |
| | Tatsusaburo Kimura Sumitomo Cooperation Hydrogen Business Working Group |
| | Japan |
| 16:30 | Power-to-X in the Netherlands |
| | Dr. Earl Goetheer TNO / Voltachem Netherlands |
| 17:45 | Tour of Fraunhofer ISE Facilities |
| | Bus transfer |
| 19:30 | Networking Event and Dinner |

Programme: Day 2 Llune 5th, 2018

Peterhofkeller | Niemensstraße 10, 79098, Freiburg

| 08. | anner bay 2 same s ', 2010 |
|-------|---|
| | Session 2: Capture, Electrolysis and Production Prof. Robert Schlögl |
| 09:00 | Technical Photosynthesis, Employing Single Step Direct Electrocatalytic Reduction of CO ₂ Toward CO and Hydrocarbons Dr. Günter Schmid Principal Key Expert at Siemens AG Germany |
| 09:30 | Methanol: The Standard Chemical, but Challenge for Petrochemical and Energy Application Wolfgang Seuser MMSA Vice President EUROPE Singapore |
| 10:00 | Coffee break |
| 10:40 | Power-to-X – Delivering Sustainable Energy Carriers, Platform Molecules and Synthetic Oxygenates Dr. Robin White Head of Group Sustainable Catalytic Materials Fraunhofer ISE Germany |
| 11:15 | Power-to-Fuel – Technology Looks for Business Case Dr. Arthur Heberle Vice President Mitsubishi Hitachi Power Systems Europe GmbH Germany |
| 11:40 | Lunch |
| | Session 3: Fuels & Combustion Prof. Robert Schlögl |
| 12:45 | OME as a Diesel Fuel: The Way to a Fuel Specification |

Dr. Thomas Wilharm | Director ASG Analytik | Germany

Methanol Based PtL Fuels for Particulate Free Combustion in DI and SI Engines 13:10 Dr.-Ing. Martin Härtl | Senior Engineer, Chair for Internal Combustion Engines | TU Munich | Germany

13:35 Summary and Remarks | Prof. Robert Schlögl

14:00 Close



