

Program (CET)

Monday, 10 January 2022

Chair: Jan-Dierk Grunwaldt

08:30 – 08:40	Jan-Dierk Grunwaldt Roger Gläser Karsten Reuter	Welcome
08:40 – 09:35	Ulrike Diebold	Fundamental Studies Using Surface Science Technique
09:35 – 10:20	Petra de Jongh	Supported Catalyst Preparation – Combining Fundamentals with Relevance
10:20 – 10:45	<i>COFFEE BREAK / NETWORKING</i>	
10:45 – 11:30	Beatriz Roldan Cuenya	From Clusters to Catalysts in Energy Storage
11:30 – 12:15	Ib Chorkendorff	Experimental Aspect of Electrochemical Ammonia Synthesis
12 :15 – 12:30	Stefan Jorda	About the Wilhelm and Else Heraeus Foundation
12:30 – 14:00	<i>LUNCH BREAK / NETWORKING</i>	
14:00 – 14:45	Karl J. J. Mayrhofer	Evaluation of Electrocatalyst Activity, Stability and Selectivity during Dynamic operation – Online Coupling of Analytical Techniques to Electrochemical Flow Cells
14:45 – 15:30	Eranda Nikolla	Electrocatalytic Reduction of CO₂
15:30 – 16:00	<i>COFFEE BREAK / NETWORKING</i>	
16:00 – 16:45	Ulrike Krewer	Modelling of Electrocatalytic Systems
16:45 – 18:15	Posterflash (1 min) and Poster Session I (MeetAnyway)	

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Tuesday, 11 January 2022

Chair: Karsten Reuter

08:30 – 09:30	Robert Schlögl	Future of Energy Storage in Chemicals
09:30 – 10:15	Regina Palkovits	CO₂-Hydrogenation and Oxymethylene Ethers
10:15 – 10:45	<i>COFFEE BREAK / NETWORKING</i>	
10:45 – 11:30	Martin Muhler	New Insights into Methanol Synthesis
11:30 – 12:15	Nico Fischer	Advanced Characterization and Understanding of Fischer-Tropsch Catalysts
12:15 – 13:30	<i>LUNCH BREAK / NETWORKING</i>	
13:30 – 15:00	Posterflash (1 min) and Poster Session II (MeetAnyway)	
15:00 – 15:30	<i>COFFEE BREAK / NETWORKING</i>	
15:30 – 16:30	Ferdi Schüth	Future Energy Scenarios
16:30 – 18:15	Angelika Heinzl Andreas Förster Maximilian Fleischer Bert M. Weckhuysen	Panel Discussion "Our Energy System in 2050"

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Wednesday, 12 January 2022

Chair: Roger Gläser

08:30 – 09:30	Bert M. Weckhuysen	Operando Spectroscopy and Microscopy in Catalysis
09:30 – 10:15	Marc Willinger	Advances in Electron Microscopy
10:15 – 10:45	<i>COFFEE BREAK / NETWORKING</i>	
10:45 – 11:30	Mirijam Zobel	In Situ/Operando Characterization Using Synchrotron Scattering Techniques
11:30 – 12:30	Jens K. Nørskov	Electrochemical Nitrogen Activation, Insights from Theory
12:30 – 14:00	<i>LUNCH BREAK / NETWORKING</i>	
14:00 – 14:45	Jan Rossmeisl	Predicting Electrocatalysis at the Atomic Scale
14:45 – 15:30	Zachary W. Ulissi	Continued Progress towards Generalizable Machine Learning Models in Computational Catalysis
15:30 – 16:00	<i>COFFEE BREAK / NETWORKING</i>	
16:00 – 16:45	Olaf Deutschmann	Novel Tools for Digitalization and Archiving of Experimental and Modelling Data in Reaction Kinetics
16:45 – 17:45	Julia Schmoeckel	Weather Forecast and Renewable Energies

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Thursday, 13 January 2022

Chairs: Karsten Reuter / Roger Gläser

08:30 – 09:15	Stephan Schunk	Catalyst Design by Digitalization Approaches
09:15 – 10:00	Anke Hagen	Solid Oxide Electrolyzer under Dynamic Load for Hydrogen and Syngas Production
10:00 – 10:30	<i>COFFEE BREAK / NETWORKING</i>	
10:30– 11:15	Roland Dittmeyer	Decentralized Processes: Energy-Related Catalysis Using Modular Reactor Design
11:15– 12:15	Gabriele Centi	Outlook for CO₂-Reduction and Future Scenarios on a European Level
12:15 – 12:30	Organizers	Closing Remarks and Poster Prize
12:30	<i>END OF THE SEMINAR</i>	