

18.06.2023						Program of the Heraeus-Seminar: Energy transition					
Time	Session	Name	Subject	Titel	Institution						
Sunday											
18.00-18.15	1.1	Meschede, Dieter	Welcome	Professor	Universität Bonn						
18.15-19.00	1.2	Ziegahn, Karl Friedrich	Introduction into the technology required for the energy revolution	DR. Ing.	KIT, Vorsitz. AKE der DPG						
19.00-20.00	1.3	Jorda, Stefan	About the Wilhelm and Else Heraeus Foundation	Dr.	MD WEH						
19.06.2023											
Monday											
Session											
8.30-9.15	2.1	Beck, Marie Luise	History of climate research	Geschäftsf.	DKK Berlin						
9.15-10.00	2.2	Schönwiese, Christian D.	Global climate change in industrial time - observations and forcing	Professor	Goethe Universität Frankfurt						
10.00-10.30	Coffee break										
Session											
10.30-11.15	3.1.	Heggin, Michaela	Climate change information - from models to observations	Professorin	FZ Jülich						
11.15-12.00	3.2.	Fichtner, Maximilian	The transformation of propulsion	Professor	HIU Ulm						
12.00-12.30	3.2	Discussion									
12.30-14.00	Lunch										
Session											
14.00-14.45	4.1	Henning, Hans-Martin	European aspects of the energy transition	Professor	Fraunhofer Freiburg						
14.45-15.30	4.2	Garcia, Laura	Overview on the aspects of the transition of the energy supply	Professorin	DBFZ						
15.30-16.15	4.3	Niessen, Stefan	Bio energy resources	Professor	Siemens/Erlangen						
16.15-16.45	4.3	Symbiotic Renewable Energy Supply for Europe									
16.15-16.45	Coffee break										
Session											
16.45-17.30	5.1	Schlattmann, Rutger	Electricity and heat from renewable energy sources	Professor	Helmholtz Berlin						
17.30-18.15	5.2	Barth, Stephan	Energy production by photo voltaic-present status and future evolution	Dr.	Forschungsverbund Windenergie						
18.15-19.00	5.3	Schill, Eva	Energy supply by wind power – current status and future developments	Professorin	KIT und TU Darmstadt						
19.00-20.00	Dinner										
20.00-22.00	Poster + discussions + beer										
20.06.2023											
Tuesday											
Session											
8.30-9.15	6.1.	Dittmeyer, Ronald	Energy storage I (Power to Gas, overview/Hydrogen)	Professor	Karlsruhe KIT						
9.15-10.00	6.2.	Gebauer, Christian	Overview to Power-to-Gas and methanisation as example	Dr.	Heraeus						
10.00-10.30	Coffee break										
Session											
10.30-11.15	7.1.	Lübcke, Andrea	PEM Electrolysis – Energy storage via Hydrogen and the role of Precious Metals	Dr.	Acatech						
11.15-12.00	7.2.	Jung, Laura	Ramp-Up of the Hydrogen Economy	Dr. Ing.	Fraunhofer IPA, Stuttgart						
12.00-12.30	7.3.	Discussion	Hydrogen Integration in Industry								
12.30-14.00	Lunch										
Session											
14.00-14.45	8.1.	Eichel, Rüdiger	Energy storage III (Conversion to Hydrocarbons and Chemical Batteries)	Professor	FZ Jülich						
14.45-15.30	8.2.	Felderhoff, Michael	SOEC and high Temperature Co-Electrolysis as a new option	Dr.	MPI Kohleforschung						
15.30-16.15	8.3	Iven, Franz	Heterogeneous Catalysis and Hydrogen Storage	Dipl. Ing.	Wirtschaftsmn. NRW						
16.15-16.45	8.3	Energy Transition in Northrhien Westfalia									
16.15-16.45	Coffee break										
Session											
16.45-17.30	9.1	Scipp, Thorsten	Energy storage (Conversion to Hydrocarbons and Chemical Batteries)	Professor	Volterion Dortmund						
17.30-18.15	9.2	Bauer, Wolfgang	Redox-Flow-Batteries	Professor	Michigan State University MSU						
18.15-19.00	9.3	Discussion	Energy Storage Problems and Solutions in the Transportation Sector								
19.00-20.00	Dinner										
20.00-22.00	Poster + discussions + beer										
21.06.2023											
Wednesday											
Session											
8.30-9.15	10.1.	Greiner, Martin	Chemical batteries	Professor	Universität Aarhus						
9.15-10.00	10.2.	Schäfer, Mirko	A complex-system modeller's view on the decarbonization of the European energy system.	Professor	Universität Freiburg						
10.00-10.30	Coffee break										
Session											
10.30-11.15	11.1.	Luther, Gerhard	Hydro storage I	Dr.	Uni Saarbrücken						
11.15-12.00	11.2.	Gessel, David	The role of short-term storage like hydropower in abandoned opencast mines in the energy transition.	Professor	MIT Boston						
12.00-12.30	11.3.	Discussion	Evolving from a hydrocarbon-based to a sustainable economy								
12.30-14.00	Lunch										
Session											
14.00-14.45	12.1.	Feldmann, Matthias	Hydro storage II	Dip. Ing	Tractech Engineering GmbH						
14.45-15.30	12.2.	Pachta, Matthias	Hydropower Storage - Overview	Professor	TH Wolfenbüttel-IEE Fraunhofer						
15.30-16.00	12.3.	Discussion	Hydropower Storage - The STENSEA-Project								
16.00-16.30	Coffee break										
Session											
16.30-17.15	13.1.	Ernst, Bernhard	Hydro storage II	Dr.	IEE Kassel						
17.15-18.00	13.2.	Platt, Ulrich	Electrochemical vs pumped hydro systems for bulk energy storage	Professor	Universität Heidelberg						
18.00-18.30	13.2.	Discussion	Renewable Energy in Europe-How much is needed, what can be produced?								
18.30-	Heraeus-Dinner										
22.06.2023											
Thursday											
Session											
8.30-9.15	14.1.	Vandersickel, Amelies	Other energy storage concepts	Professorin	Universität Stuttgart&DLR						
9.15-10.00	14.2.	Düren, Michael	Thermal Storage and the heating sector – a often overlooked potential	Professor	Universität Gießen						
10.00-10.30	Coffee break										
Session											
10.30-12.00	NN, (Politik); Drake, Detlef (EON);		The role of politics	Abgeordnete	Landtag NRW						
10.30-12.00	NN (Chemie)		Podiumsdiskussion zur Energiewende -	Professoren							
12.30-14.00	Düren, Michael (Physik)		Aus Sicht von Politik und Wissenschaft Moderation: Ziegahn, Karl Friedrich								
12.30-14.00	Lunch										
Closing											