

	Monday, 21.3.22 Chairs Prof. Dr.-Ing. Gunther Gehlert, FHW, & Dr. Klaus Taube, Hereon	Tuesday, 22.3.22 Chairs: Dr. Martin Dornheim, Hereon, & Prof. Dr.-Ing. Gunther Gehlert, FHW	Wednesday, 23.3.22 Chairs: Dr. Klaus Taube, Hereon, & Mr. Marco Zobel, DLR VE	Thursday, 24.3.22 Chairs: Mr. Jorgen Depken, DLR MS, & Dr. Alexander Dyck, DLR VE	Friday, 25.3.22 Chairs: Dr. Alexander Dyck, DLR VE, & Prof. Thomas Klassen, Hereon
	Welcome Opening Message (Friederike Kampschulte, Ministry of Education, Science and Culture, Federal State of Schleswig-Holstein) 08:45				
	H2 Generation I Block I	H2 Storage I	H2 Transport I	H2 Distribution / Infrastructure	H2 Application / End use I
09:00	Hydrogen through the lens of an International Energy Company (Shell, Jens Müller-Behlau)	09:00 Metal hydrides and the Development of Lightweight Complex Hydrides and Reactive Hydride Composites for Hydrogen Storage (Hereon, Martin Dornheim)	09:00 Challenges for H2 transport in gas grids (Mannesmann Line Pipe, Holger Brauer)	09:00 Hydrogen Refuelling Stations from the planing to operation (ARTELIA GmbH, Ulrike Ferro)	09:00 Practical use of H2 in gasmotor based CHP (HanseWerk Natur, Ralf Oldenburg)
09:45	Biohydrogen as an alternative production route (TUHH, Arina Kosheleva)	09:30 Applications for Metal Hydrides (GKN Hydrogen, Bettina Neumann)	09:45 Hydrogen in the Gas Grid (FH Westküste, Oliver Opel)	09:30 Engineering of Hydrogen Refueling System - H2 Supply Chains are a System of Systems (LifteH2, Tom Elliger)	09:30 Alternative Drive Trains for Trucks (Paul Nutzfahrzeuge GmbH, Thomas Kotowski)
		10:00 Hydrogen storage in nanoporous materials: Advantages and limitations (MPI IS, Michael Hirscher)		10:00 Hydrogen quality and analysis (DLR VE, Michael Kröner)	10:00 Train application with hydrogen (Alstom, Stefan Schrank)
10:30	Coffee Break				
	H2 Generation Block II	H2 Storage II	H2 Transport II	H2 startups	H2 Application / End use II
11:00	The artificial leaf - photoelectrochemical H2 generation (Hereon, Jiri Kollmann)	11:00 Liquid Hydrogen - A really cool solution (Air Liquide, Dominic Walter)	11:00 Liquid organic hydrogen carrier – a solution for storing and transporting hydrogen (Siemens Energy, Joachim Hoffmann)	11:00 Hydrogen Start-up Ecosystem(PNPTC, Tomaso Maschera, Monika Browers)	11:00 Hydrogen Applications in Shipping (DLR MS, Depken)
11:45	Physical and economic integration of fluctuating renewable energies with decentralised elektrolysers - Presentation of hydrogen projects from Green Planet Energy (Green Planet Energy, Kim Viola Kanitz + Mats)	11:30 The key role of composite Type 4 storage solutions for compressed hydrogen (Hexagon Purus, Hartmut Fehrenbach)	11:45 Green Hydrogen Supply Chains - A Techno-economic Assessment (TUHH, Lucas Sens)	11:30 Presentations from H2 Startups - APEX Group – Hydrogen storage and projects (Peter Sponholz) - H2CoreSystems - Kickstarting H2 on a modular basis (Ulif Jörgensen)	11:30 Sustainable Aviation with Hydrogen (Airbus, Adrian Herberger)
		12:00 Cryo Compressed Hydrogen (Cryomotive GmbH, Tobias Brunner)			12:00 Industrial Scale Green Hydrogen Production - Case Study: WESTKÜSTE100 (Heide Refinery, Marcel Goelden)
12:30	Coffee Break				
	H2 Generation II Block I	Large scale seasonal storage	Materials / cross-sectional technologies I	Derivatives I	Finalization
14:00	Turquoise Hydrogen - Part of the solution of the Energy Transition (Wintershall DEA, Michael Olbricht)	14:00 Salt Caverns – Crisis Prevention and innovative Energy Storage (Storag Etzel GmbH, Karsten Peter)	14:00 Fundamentals of Hydrogen Processing by Membranes (Hereon, Torsten Brinkmann)	14:00 Solar thermal energy usage for the provision of hydrogen and other fuels (DLR SF, Martin Roeb)	12:30
14:45	Hydrogen production and system design – As expert in PEM electrolysis technology (Elogen, Carsten Krause)	14:45 Introduction to underground pore storage and presentation of Storengy's H2 projects (Storengy, Frank Fischer & Daniel Mercer)	14:45 Applications of Membranes for Hydrogen Separation in Industry (Hereon, Torsten Brinkmann)	14:45 Power-to-Liquids: Production of Renewable Fuels and Chemicals(bse Methanol GmbH, Johann Kirchner)	13:00
		15:30 The PhD Fellowship Program of the State of Schleswig-Holstein (HY.SH, Thiess Popp)			End of the Spring School
15:30	Coffee Break				
	H2 Generation II Block II		Materials / cross-sectional technologies II	Derivatives II	
16:00	Hydrogen demand and supply options in Germany (EWE, Gert Tjarks)		16:00 Materials, Safety, ... (Federal Center for Materials Research and Testing, Thomas	16:00 CO <sub>2</sub> hydrogenation using metal hydrides (Hereon, Claudio Pistidda)	
16:45	H2 production abroad, import to Germany - what is realistic? (EWE, Michael Sagorje)		16:45 <a href="https://www.dlr.de/ve/Portaldata/88/Resource/s/videos/infrastrukturfilme/210811_VE_Infrastrukturfilm_07_UT_de.mp4">https://www.dlr.de/ve/Portaldata/88/Resource/s/videos/infrastrukturfilme/210811_VE_Infrastrukturfilm_07_UT_de.mp4</a>	16:30 Green Ammonia for a Carbon-free Energy Economy - Technology Development in CAMPFIRE - a Partner Alliance of the Region North-East (INP Greifswald, Angela Kruth)	
				17:00 Industrial production of "green" ammonia – economic utilisation potentials and application in industry (ThyssenKrupp Uhde Engineers, Bernd Keil)	
17:30			17:30 <a href="#">Geesthacht - mit Wasserstoff in die Zukunft / DLR</a>	17:30	