

	Monday, 27.3.23 Chairs Prof. Dr.-Ing. Gunther Gehlert, FHW, & Dr. Klaus Taube, Hereon	Tuesday, 28.3.23 Chairs: Dr. Gökhan Gizer, Hereon, & Dr. José Bellosta von Colbe, Hereon	Wednesday, 29.3.23 Chairs: Dr. Klaus Taube, Hereon, & Dr. Michael Kröner, DLR VE	Thursday, 30.3.23 Chairs: Jorgen Depken, DLR MS, & Dr. Alexander Dyck, DLR VE	Friday, 31.3.23 Chairs: Dr. Alexander Dyck, DLR VE, & Prof. Thomas Klassen, Hereon
08:45	Welcome Opening Message (Friederike Kampschulte, Ministry of Education and Science, Schleswig-Holstein)				
	H2 Generation I Block I	H2 Storage I	H2 Transport I	Derivatives I / H2 Distribution	H2 Application / End use I
09:00	The Colours of Hydrogen - An Introduction (Helmholtz Centre for Environmental Research GmbH, Katja Bühler) [online]	09:00 Metal hydrides and the Development of Lightweight Complex Hydrides and Reactive Hydride Composites for Hydrogen Storage (Hereon - Institute of Hydrogen Technology, Gökhan Gizer)	09:00 Challenges of Hydrogen Transport and Final Distribution for Different End Users and Applications (Mabanaft GmbH & Co. KG, Philipp Kroepfels)	09:00 Green Ammonia - technically and economically feasible? (Thyssenkrupp Industrial Solutions AG, Bernd Keil)	09:00 Hydrogen in Fuel Cell Application for Heavy Duty Vehicles (SAFETY.brands Germany UG, Maik Groß)
09:45	Hydrogen Production and System Design – As Expert in PEM Electrolysis Technology (Elogen GmbH, Carsten Krause) [online]	09:30 Applications for Metal-Hydrides (GKN Hydrogen GmbH, Mirko Ante)	09:30 Challenges in Setting up a Hydrogen Grid - HH-WIN (Gasnetz Hamburg GmbH, Elisabeth Ziemann)	09:30 Green Ammonia for a Carbon-free Energy Economy - Technology Development in CAMPFIRE - a Partner Alliance of the Region North-East (Leibniz Institute for Plasma Science and Technology (INP), Angela Kruth)	09:30 Hydrogen – Future directly build in (Vaillant GmbH, Thomas Badenhop)
		10:00 The Key Role of Composite Type 4 Storage Solutions for Compressed Hydrogen (Hexagon Purus GmbH, Georg Leser)	10:00 Why Ports play a Key Role in Developing a Green Hydrogen Economy (HHLA Next GmbH, Karin Debacher)	10:00 Reducing the cost at the pump – challenges of fixed hydrogen refuelling infrastructure and scaling demand. (LIFTE H2 GmbH, Amy Smith)	10:00 Train application with Hydrogen (ALSTOM Transport Deutschland GmbH, Stefan Schrank)
10:30	Coffee Break	10:30 Coffee Break	10:30 Coffee Break	10:30 Coffee Break	10:30 Coffee Break
	H2 Generation Block II	H2 Storage II / Compression	H2 Transport II	H2 startups II	H2 Application / End use II
11:00	Turquoise Hydrogen - Fundamentals and Technology (Wintershall Dea AG, Michael Olbricht) [online]	11:00 Liquid Hydrogen - A Really Cool Solution (AIR LIQUIDE Deutschland GmbH, Dominic Walter)	11:00 Liquid organic hydrogen carrier (HYDROGENIOUS LOHC TECHNOLOGIES GmbH, Andreas Kohlhepp)	11:00 How Plug and Play is boosting the European hydrogen ecosystem via the H2 StartUp Accelerator (Plug & Play Germany GmbH, Giorgia Rancati) [online]	11:00 Rolls-Royce Hydrogen Technologies (Rolls-Royce Solutions GmbH, Denise Frantzheld)
11:45	Dark Fermentative Hydrogen Production - Potentials and Opportunities (Hamburg University of Technology - Institute of Environmental Technology and Energy Economics, Marvin Scherzinger) [online]	11:30 CcH2 – CRYOGAS Hydrogen Storage and Refuelling Technology for Heavy Duty Vehicles (Cryomotive GmbH, Tobias Brunner) [online]	11:45 Green Hydrogen Supply Chains - A Techno-economic Assessment (Hamburg University of Technology - Institute of Environmental Technology and Energy Economics, Lucas Sens)	11:30 Hydrogen CHP - Decentralised Backbone of the Energy Transition (2G Energietechnik GmbH, Dominic Frodeno)	11:30 Sustainable Aviation with Hydrogen (Airbus Operations GmbH, Tanja Neuland)
		12:00 Hydrogen Compression (NEUMAN & ESSER Deutschland GmbH & Co. KG, Guido Harsch) [online]		12:00 Metal hydride hydrogen storage systems - a sustainable business model? The Development of a Coppersmith into a Hydrogen Tank Manufacturer (Stühff Maschinen- und Anlagenbau GmbH, Holger Stühff)	12:00 Green Transformation of Heide Refinery (Raffinerie Heide GmbH, Nina Schomacker)
12:30	Lunch	12:30 Lunch	12:30 Lunch	12:30 Lunch	12:30 Lunch
	H2 Generation II Block I	Large scale seasonal storage	Hydrogen Processing I / H2 Startups I	Derivatives II / Hydrogen Processing II	Finalization
14:00	The H2Global: Promoting the H2 Market Ramp-up and the First Imports to Germany (H2Global Stiftung, Emanuel Henrich)	14:00 Salt Caverns – Crisis Prevention and innovative Energy Storage (STORAG ETZEL GmbH, Arne Oellermann) [online]	14:00 Hydrogen Quality and Analysis (DLR - Institute of Networked Energy Systems, Michael Kröner)	14:00 DLR Study Future Maritime Fuels (DLR - Institute of Maritime Energy Systems, Shaghayegh Kazemi Esfeh)	13:00 Handover of Certificates, Feedback Round, Farewell
14:45	Physical and Economic Integration of Fluctuating Renewable Energies with Decentralised Electrolysers - Presentation of Hydrogen Projects from Green Planet Energy (Green Planet Energy eG, Kim Viola Kanitz)	14:45 Hydrogen Storage in the geological Subsurface: Storage Potential, Storage Options and induced Impacts (Christian-Albrechts-University zu Kiel - Institute of Geosciences, Sebastian Bauer)	14:45 Applications of Membranes for Hydrogen Separation (Hereon - Institute of Membrane Research, Torsten Brinkmann)	14:30 Hydrogen Purity - Online Measurement and Particle Filtering (HYDAC New Technologies GmbH, Philipp Kerger)	14:00 End of the Spring School
			15:30 Fueling the Future: Unleashing the Potential of AEM Electrolysers (Enapter GmbH, Jan-Justus Schmidt)	15:00 Direct Conversion of CO2 to Renewable Methanol by Standardised Synthesis Modules (bse Methanol GmbH, Johann Kirchner)	
15:30	Coffee Break	15:30 Coffee Break	15:30 Coffee Break	15:30 Coffee Break	
	H2 Generation II Block II		Excursion	Derivatives III / H2 Infrastructure II	
16:00	Hydrogen Demand and Supply Options in Germany (EWE GASSPEICHER GmbH, Gert Tjarks)	16:00 The Doctoral Scholarship of the EKSH (Gesellschaft für Energie und Klimaschutz Schleswig-Holstein GmbH (HY.SH), Thies Rasmus Popp)	16:00	16:00 Solar Thermal Energy Usage for the Provision of Hydrogen and Other Fuels (DLR - Institute of Future Fuels, Dr. Martin Roeb)	
16:45	The Artificial Leaf - Photoelectrochemical H2 Generation (Hereon - Institute of Photoelectrochemistry, Jiri Kollmann)	16:15 Pitch-Talks (Jury: Gerlind Wagner-Vogel, Gunther Gehlert, N.N.)	17:00 Excursion Hitzeler Ship Yard	16:30 Challenges in Planning and Realization of Large Scale Hydrogen Infrastructure (Ingenion GmbH, Robin Kleinschmidt)	
18:30	Grill-Party (Drinks to be paid by participants)	18:30 Dinner	19:00 Dinner	18:00 Conference Dinner (sponsored by HYDAC, Drinks during dinner free, after dinner to be paid by participants)	