

5. BMBF Status Conference „Technologies for Sustainability and Climate Protection – Chemical Processes and Use of CO ₂ “		
April 21 st , 2015		
Morning	09:30 – 10:00	Registration and Coffee
	10:00 – 11:30	Opening Session BMBF short film: CO₂-utilisation Federal Minister Prof. Johanna Wanka Dr. Klaus Schäfer (Head of Production und Technology, Bayer MaterialScience AG) Christian von Olshausen (CTO, sunfire GmbH) Dr. Gernot Klotz (Cefic)
	11:30 – 11:50	Coffee Break
Afternoon	11:50 – 12:40	Keynote Speaker (PtL and PtG) <i>Prof. Walter Leitner</i> (RWTH Aachen) <i>Reinhard Otten</i> (Audi AG)
	12:40 – 14:00	Lunch
	14:00 – 15:30	Project Status „Chemical Energy Storage“ sunfire - Liquid hydrocarbons from CO₂, H₂O und renewable electricity <i>Christian von Olshausen (sunfire)</i> iC⁴ – Integrated approach for Power Storage <i>Prof. Dr. Richard Fischer (TUM)</i> CO₂rrect - Utilization of CO₂ as a Carbon Building Block Mainly Using Renewable Energy <i>Dr. Stefanie Eiden (Bayer Technology Services)</i> SEE - Storage of Electrical Energy from Renewable Sources in the Natural Gas Grid <i>Manuel Götz (DVGW-Forschungsstelle am Engler-Bunte-Institut)</i>
	15:30 – 16:00	Coffee Break

	16:00 – 16:40	Projects Status „CO₂ Utilisation Projects“ DreamPolymers – Sustainable Pathways to New Polymers <i>Dr. Christoph Gürtler (Bayer Material Science AG)</i> FfPaG – Gas to Fluids and Solids (GtF&S) <i>Dr. Andreas Bode (BASF New Business GmbH)</i> PhotoKat – Development of active and selective heterogeneous Photocatalysts for the Reduction of CO₂ to C1 Building Block Chemicals <i>Dr. Jennifer Strunk (Ruhr-Universität Bochum)</i>
	16:40 – 17:00	Evaluation of economic and environmental potentials of utilising CO₂ in chemical processes <i>Dr. René Scheumann (TU Berlin)</i>
	17:00 – 18:00	Panel Discussion Participants: Dr. René Scheumann (TU Berlin), Prof. Stefan Brinzeu (Wuppertal Institut), Dr. Christoph Gürtler (Bayer Material Science) Dr. Andreas Bode (BASF), Daniel Wetzel (Welt)
	18:00 –	Poster-Session and Refreshments

5. BMBF Status Conference „Technologies for Sustainability and Climate Protection – Chemical Processes and Use of CO ₂ “		
April 22 nd , 2015		
Morning	09:20 – 09:30	Welcome <i>PD Dr. Lothar Mennicken, BMBF</i>
	09:30 – 10:00	CO₂ Utilisation: Ongoing research activities in Europe <i>Prof. Dr. Peter Styring (University of Sheffield)</i>
	10:00 – 11:20	Projects Status „CO₂ Utilisation Projects“ ACER - Sodium Acrylate from CO₂ and Ethylen <i>Dr. Thomas Schaub (BASF SE)</i> COOBAF – CO₂-Based Acetone Fermentation <i>Dr. Joachim Nitz (Evonik Industries AG)</i> ECCO₂ - Electrochemical CO₂ Reduction – High-Throughput Search for new Electrocatalysts <i>Dr. Karl Mayrhofer (Max-Planck-Institut für Eisenforschung GmbH)</i>
	11:20 – 11:45	Coffee Break

	11:45 – 13:00	Project Status „CO₂ Utilisation Projects“ One component organocatalysts for the utilization of CO₂ as a C1 building block <i>Dr. Thomas Werner (LIKAT)</i> DMEexCO₂ <i>Dr. Ekkehard Schwab (BASF SE)</i> SolarStep <i>Dr. Martin Roeb (DLR)</i> CO₂ as Chemical Building Block <i>Prof. Dr. Bernhard Rieger (TU Munich)</i>
	13:00 – 14:00	Lunch
Afternoon	14:00 – 15:30	Project Status „Energy Efficiency Projects“ Innovative Heat Exchanger Design for Increased Process Efficiency <i>Prof. Dr. Scholl (TU Braunschweig)</i> HySilp – Development of new Resource-Efficient Hydroformylation Technologies using Supported Ionic Liquid Phase Catalysts <i>Dr. Hanna Hahn (Evonik Industries AG)</i> Development of a Miniaturized Oil-Free CO₂ Compressor with Built-In CO₂-Cooled Electric Motor Drive for Large CO₂ Heat Pumps <i>Dr. Gerd Janson (KSB GmbH)</i> Mixed-Matrix-Membranes for Gas Separation <i>Dr. Torsten Brinkmann (Helmholtz-Zentrum Geesthacht)</i> Heat Transformation Using Ionic Liquids as Absorbents <i>Nina Merkel (KIT)</i>
	15:30 – 16:00	Coffee Break

	16:00 – 17:20	Project Status „Energy Efficiency Projects“ InReff - Integrated Resource Efficiency Analysis to Reduce the Climate Impact of Chemical Plants <i>Dr. Nikolas Denz (ifu Hamburg)</i> EP-Wüt – Energy Efficient Polymer Film Heat Exchangers <i>Prof. Dr. Hans-Jörg Bart (TU Kaiserslautern)</i> Increased Energy Efficiency and Reduced Greenhouse Gas Emissions Based on Multi-Scale Modelling of Multi-Phase Reactors <i>Dr. Marc Becker (Evonik Industries AG)</i> LICIL – A new Method for the Extraction of Lignin, Cellulose and Hemicellulose from the Biogenic Materials Using Novel Ionic Liquids <i>Prof. Dr. Kantlehner (Hochschule Aalen)</i>
	17:20 – 17:40	Summary and Closing Remarks <i>PD Dr. Lothar Mennicken, BMBF</i>