

# European 2nd generation biofuels: Opportunities and applications

Wednesday, 18<sup>th</sup> of April 2018: DLR, Stuttgart

	Topic	Speaker
10:00 - 10:15	General Information about the workshop & the agenda	Dr. Ralph-Uwe Dietrich, DLR
10:15 - 10:30	Introduction and Greetings	Prof. André Thess, DLR
Topic 1	International and European perspective, 2nd generation of Biofuel: Objectives, Expectations	
10:30 - 11:00	Support to Advanced Biofuel Innovation in the Horizon 2020 Work Program "Secure, Clean and Efficient Energy"	Dr. Thomas Schleker, European Commission, DG-RTD
11:00 - 11:30	Challenges and opportunities of biofuel production in Finland	Dr. Esa Kurkela, VTT, Finland
11:30 - 12:00	Sustainable petroleum equivalent fuel from biogenic waste	Prof. Andreas Hornung, UMSICHT, Germany
12:30 - 13:30	<i>Lunch</i>	
Topic 2	European projects	
13:30 - 14:00	FORBIO: Fostering sustainable feedstock production for advanced biofuels on underutilized land in EU	Dr. Rainer Janssen, WIP Renewable Energies, Germany
14:00 - 14:30	FLEDGED: Flexible DME production from biomass gasification with sorption enhanced processes	Prof. Matteo Carmelo Romano, Politecnico di Milano, Italy
14:30 - 15:00	Residue2Heat: Renewable Residential Heating with Fast Pyrolysis Bio-oil	Dr. Roy Hermanns, OWI GmbH, Germany
15:00 - 15:30	<i>Coffee Break</i>	
Topic 3	COMSYN Project	
15:30 - 16:00	Steam gasification and simplified gas cleaning for medium-scale biofuel production from biomass	Sanna Tuomi and Christian Frilund, VTT, Finland
16:00 - 16:30	Decentralized conversion of Gas-to-Liquid: Current status on compact FT-Reactors	Manuel Selinsek, INERATEC, Germany
16:30 - 17:00	Techno-economic Analysis and LCA	Dr. Ralph-Uwe Dietrich, DLR, Germany
17:00 - 17:15	COMSYN market assessment and business cases	Ville Hankalin, AF Consult, Finland
17:15 - 18:00	Conclusion of the day	

Thursday, 19<sup>th</sup> of April 2018: INERATEC and KIT, Karlsruhe

	Topic	Speaker
08:00 - 9:30	<i>Departure to Karlsruhe from Stuttgart hotel campus guest</i>	
09:30 - 10:00	Arrival at INERATEC, Greetings	
10:00 - 11:00	Visit of COMSYN test rig	Dr. Tim Böltken, INERATEC, Germany
11:00 - 11:30	<i>Departure to KIT</i>	
Topic 4	Outlook, technology options	
11:30 - 12:30	Visit of bioliq <sup>®</sup> plant	Prof. Jörg Sauer, KIT, Germany
12:30 - 13:30	<i>Lunch</i>	
13:30 - 14:00	bioliq <sup>®</sup> as flagship project for biomass conversion to synthetic fuels	Prof. Jörg Sauer, KIT, Germany
14:00 - 14:30	e-Fuels from carbon dioxide enabled by novel process technologies	Prof. Roland Dittmeyer, KIT, Germany
14:30 - 15:00	2nd generation biofuels research at the Hamburg University of Applied Sciences	Prof. Thomas Willner, HAW Hamburg, Germany
15:00 - 15:15	<i>Coffee Break</i>	
15:15 - 15:45	refuels – Raw Materials, Processes and Applications for Synthetic Fuels	Dr. Ulrich Arnold, KIT, Germany
15:45 - 16:15	Hydroprocessing of FT waxes for production of kerosene and chemicals	Prof. Reinhard Rauch, KIT, Germany
16:15 - 17:00	Conclusions, Discussions and Networking - Drink	
17:00	<i>Departure</i>	