



**Tailor-Made Fuels
from Biomass**

**RWTHAACHEN
UNIVERSITY**

PROGRAM

3. International Conference

of the
**Cluster of Excellence
Tailor-Made Fuels from Biomass**

June 23rd - 25th, 2015
Eurogress, Aachen, Germany

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3. International TMFB Conference June 23rd – 25th, 2015, Aachen, Germany

Tuesday, 23.06.2015

09:00	Keynote Session	S. Pischinger		Welcome and Introduction		
09:15		J. Förster <i>TU Denmark</i>		Keynote Lecture: Towards integrated biorefineries for fuel and chemical production		
10:00	Coffee Break					
10:30	Keynote Session	T. Haatainen <i>Neste Oil, Porvoo, Finland</i>		Keynote Lecture: Sustainability and traffic fuels		
11:15		G. Centi <i>University of Messina, Italy</i>		Keynote Lecture: The new sustainable model of biorefineries: biofactories and the challenge of integrating bio- and solar-refineries		
12:00	Lunch Break					
13:00	Fuel Design	L. Witzke <i>Volkswagen AG</i>		Evaluation of a furan component as potential biofuel		
13:30		F. Bär <i>TAC Coburg</i>		New antioxidants for Diesel fuels		
14:00		R. Hermanns <i>OWI Oel-Waerme-Institut GmbH</i>		Skeletal model for the oxidation stability of biodiesel fuels		
14:30		A. Sudholt / J. Klankermayer <i>RWTH Aachen University</i>		Synthesis and combustion of furan and tetrahydrofuran based fuel candidates		
15:00	Coffee Break					
15:30	SCA	S. Schröder <i>RWTH Aachen University</i>		Text-Mining analytics as a method of reflecting and promoting interdisciplinary collaboration for TMFB		
16:00	Poster Session	Poster Session				
17:00	Coffee Break					
17:30	Biotechnology Pathways to Biofuels	K. Schipper <i>Uni Düsseldorf</i>	The biotechnological potential of <i>Ustilago maydis</i>	Fuel, Spray & Mixt. Characterization	S. Bornschlegel <i>Uni Erlangen-Nürnberg</i>	Investigation of evaporation-behavior of GDI relevant [...] mixtures
18:00		J. Marienhagen <i>FZ Jülich</i>	Metabolic engineering of <i>Corynebacterium glutamicum</i> [...]		A. Deshmukh <i>RWTH Aachen University</i>	Spray breakup and mixture formation of novel biofuels
18:30		U. Schwaneberg <i>RWTH Aachen University</i>	Protein engineering for biocatalysis			
19:00	Evening Reception - Snacks and Drinks at the Eurogress					

Room "Brüsselsaal"

Room "K2"

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Wednesday, 24.06.2015

09:00	Keynote Session	C. Maravelias <i>University of Wisconsin, USA</i>		Keynote Lecture: Process systems engineering for biomass-to-fuels/chemicals strategies		
09:45		C. Bolm <i>RWTH Aachen University</i>		Keynote Lecture: Lignin degradation by mechanochemistry and catalysis		
10:30	Coffee Break					
11:00	Selective Biomass Conversion	K. Miazek <i>University of Liege</i>	Wood acid hydrolysate as a feedstock for chlorella growth	Combustion Chemistry	C. Westbrook <i>Lawrence Livermore National Labs, USA</i>	A chemical kinetic study of octane sensitivity
11:30		T. Baker <i>University of Ottawa</i>	Catalyzed aerobic oxidation of polyalcohols		V. Vaukhonen <i>UPM Biofuels</i>	Utilization of renewable Diesel from crude tall oil in light duty vehicles
12:00		S. Westhues <i>RWTH Aachen University</i>	[...] Hydrogenolysis of Carboxylic and Carbonic Acid Based Polymers		U. Burke <i>RWTH Aachen University</i>	A comprehensive experimental and modelling study of 2-butanone
12:30	Lunch Break					
13:30	Keynote Session	K. Kohse-Höinghaus <i>University of Bielefeld, Germany</i>		Keynote Lecture: Biofuel combustion chemistry - diagnostic advances and challenges		
14:15		P. Sauer mann <i>BP Global Fuels Technology, Germany</i>		Keynote Lecture: Mobility – challenges and uncertainties		
15:00	Coffee Break					
15:30	Biomass Processing	P. Grande <i>RWTH Aachen University</i>	OrCaCel - OrganoCat plant and pulping combinations [...]	Biofuel Application	M. Storch <i>Uni Erlangen-Nürnberg</i>	Investigation of (...) ethanol-isooctane fuel blends in a DISI engine
16:00		M. Carbo <i>DBFZ/ECN</i>	Production of solid sustainable energy carriers		S. Feldhoff <i>Oel-Waerme-Institut GmbH</i>	[...] Characteristics of middle distillate blends with HVO [...]
16:30		M. Kennema <i>MPI Kohleforschung</i>	Advances in biomass processing: improving future technologies		S. Heitzig <i>RWTH Aachen University</i>	Potential of biomass-based oxygenates as ... Diesel fuel
17:00	Coffee Break					
17:30	Biotechnology pathways to biofuels	S. Möhring <i>TU Kaiserslautern</i>	Fungus-based pre-treatment strategies for lignocellulosic biomass	Materials for Biomass Transformation	U. Arnold <i>KIT</i>	Recent progress in the synthesis of oxygenate fuels
18:00		N. Wierckx <i>RWTH Aachen University</i>	Malic acid production from glycerol with Ustilago trichophora		A. F. S. Salazar <i>Università di Messina</i>	Combination [...] for the preparation of silica supported catalysts
18:30		M. Stier <i>University of Stuttgart</i>	Biocatalytic production of methanol from biogas		L. Sandbrink <i>RWTH Aachen University</i>	... – deoxydehydration as novel deoxygenation method
19:30	Conference Dinner - forumM, Buchkremerstrasse 1-7					

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Thursday, 25.06.2015

09:00	Keynote	J. Keasling <i>University of California, Berkeley, USA</i>	Keynote Lecture: Engineering microbial metabolism for synthesis of advanced biofuels
09:45	TMFB Report 1	W. Leitner <i>RWTH Aachen University</i>	TMFB Status Update Integrated Research Field A "From Biomass to Biofuels"
10:30	Coffee Break		
11:00	TMFB Report 2	H. Pitsch <i>RWTH Aachen University</i>	TMFB Status Update Integrated Research Field B "From Biofuels to Propulsion"
11:45		S. Pischinger <i>RWTH Aachen University</i>	TMFB Status Update Core Interaction Field "Fuel Design"
12:30	Special Event: Ceremony of Acceptance "KlimaExpo.NRW"		
12:45	Lunch Break		
13:45	IAB	End of the Public Part of the Conference	
		Meeting of the TMFB International Advisory Board	
17:00			

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