



PROGRAMME

www.icps-conference.eu

TOPICS	CHARGES	
Gasification technologies	Regular:	€ 450,
Gas cleaning	Students:	€ 350,

- Synthesis of biofuels and bulk chemicals
- Combination with other biomass conversion options
- Biorefinery concepts

SCIENTIFIC COMMITTEE

Hermann Hofbauer, Vienna University of Technology
Martin Kaltschmitt, German Biomass Research Centre / Hamburg University of Technology
Johan Einar Hustad, Norwegian University of Science and Technology
Pier Ugo Foscolo, University of L'Aquila
Samuel Stucki, Paul Scherrer Institut.
Ausilio Bauen, Imperial College London
André Faaij, Utrecht University
Miroslav Miller, Wroclaw University of Technology
David Serrano, IMDEA Energia Institute
Mehri Sanati, Lund University

AIM OF THE CONFERENCE

Biomass gasification is a key technology for a high efficient biomass utilisation in the future. All different types of energy currently used within our energy system can be provided by the conversion of solid biomass into syngas: heat, electricity and biofuels. Therefore such polygeneration systems have become more and more important within energy policy and industry in recent years. This is the reason why this topic has been discussed on several conferences. But slowly it is realised that for economic and environmental reasons as well as due to limited biomass resources such polygeneration systems could be much more promising if they are part of integrated biorefineries. Such biorefineries are characterised by a wide range of different biomass feedstock as well as a broad variety of different products to be used as a raw material as well as an energy carrier.

Against this background the main aim of the conference is it to present the current state-of-the-art of syngas production from different biomass feedstock and in various capacities, the syngas cleaning and syngas utilisation for the provision of e.g. biofuels and bulk chemicals. Additionally ideas and concepts of such integrated biorefinieries are presented, discussed and assessed. Furthermore a platform for the exchange of information, results and experiences is offered. Therefore researchers as well as industrial representatives are invited to participate within this conference.

ADDRESS

Zeitgeschichtliches Forum Leipzig

Grimmaische Str. 6 D-04109 Leipzig www.hdg.de/leipzig



CONFERENCE VENUE



SOCIAL EVENT



Tuesday 7th September 2010 Reception at the Old Mercantile Exchange ("Alte Handelsbörse Leipzig") Naschmarkt 2 D-04109 Leipzig

TUESDAY, 7th September 2010

	SESSION "INTRODUCTIO	N"		
0:00	Opening & welcome address	M. Kaltschmitt	German Biomass Research Centre, Hamburg University of Technology (Germany)	
		H. Hofbauer	Vienna University of Technology (Austria)	
10:15	Integrated Biorefineries - Curren	nt status and perspectives		
		R. van Ree	Wageningen University and Research Centre (Netherlands)	
0:35	Classification and assessment of biorefinery concepts in IEA Bioenergy Task 42 "Biorefineries"			
		G. Jungmeier et al.	Joanneum Research (Austria)	
		FEEDSTOCK PRETREATMENT"		
1:00	Thermo-chemcial pretreatment	options - Possibilities and constraints		
		M. Klemm, R. Schmersahl, A. Ortwein	German Biomass Research Centre (Germany)	
11:30	2nd generation lignocellulosic bioethanol: Is torrefaction a possible approach to biomass pretreatment			
		D. Chiaramonti	University of Florence (Italy)	
2:00	Upgrading biomass via hydrothe	rmal carbonisation in the CarboREN-proc		
		T. Wittmann	SunCoal Industries (Germany)	
2:30	Lunch break			
	SESSION "GASIFICATION			
13:30	Gasification technologies for bio	mass - An overall analysis		
		A. Bauen	Imperial College London (UK)	
4:00	Gasification of residues and waste wood in a dual fluidized bed steam gasifier			
		V. Wilk	Bioenergy2020+ (Austria)	
		H. Kitzler, H. Hofbauer	Vienna University of Technology (Austria)	
14:30	Factors controlling gasification rates of biomass chars			
		T. Suzuki et al.	Kansai University (Japan)	
15:00	Experimental investigation of af	fecting parameters on the gasification o	f biomass fuels in a 20 kW fluidized bed	
		N. Poboss, A. Schuster, G. Scheffknecht	Stuttgart University (Germany)	
15:30	Catalysts for fluidized bed biomass gasification - Overview on recent developments and applications			
		C. Pfeifer, S. Koppatz, H. Hofbauer	Vienna University of Technology (Austria)	
15:20	Coffee break & Poster presentati			
	SESSION "GAS CLEANING			
16:45	Chemical hot gas cleaning of syn	gas from biomass gasification for produc		
		M.Stemmler, M. Müller	Forschungszentrum Jülich (Germany)	
17:15	Preparation of catalyst for carbo	nyl sulfide hydrolysis at the moderate te		
		Ju Shangguan et al. Taiyuan	University of Technology (China)	
17:45	Reliable sampling of impurities in product gas and syngas			
		J. Zeisler	Bioenergy2020+ (Austria)	
		M. Kleinhappl, H. Hofbauer	Vienna University of Technology (Austria)	
	·····	ion of the Zeitgeschichtliches Forum		
19:30	Reception			

WEDNESDAY, 8th September 2010

08:30	3:30 Methanation - Basics, technologies and integration into thermo-chemical biorefineries				
		A. Ortwein et al.	German Biomass Research Centre (Germany)		
9:00	Hydroprocessing of Fischer Tropsch biowaxes to 2nd generation biofuels				
		H. Schablitzky	OMV Refining and Marketing (Austria)		
		R. Rauch, H. Hofbauer	Vienna University of Technology (Austria)		
9:30	Pathways for synthesis of liquid b	oio fuels - Review on conversion efficien	cy, selectivity and by-products		
		H. Wagner	Hamburg University of Technology (Germany)		
		M. Kaltschmitt	German Biomass Research Centre, Hamburg University of Technology (Germany)		
0:00	Coffee break & Poster presentation	on			
	SESSION "OVERALL CONC	CEPTS I"			
0:45	Biorefineries based on thermo-chemical processing				
		M. Sanati	Lund University (Sweden)		
1:15	Biomass gasification for power go	eneration: Essent's own developments			
		M. Spanjers, W. Willeboer	Essent Energy Production (Netherlands)		
1:45	Biomass to green gasoline and power				
		F. Joensen	Haldor Topsoe (Denmark)		
2:15	Lunch break				
	SESSION "OVERALL CONC	CEPTS II"			
4:00	Efficient biomass utilisation by p	olygeneration processes - Production of	hydrogen, electricity and heat		
		T. Mayer et al.	Bioenergy 2020+ (Austria)		
4:25	Converting biomass-rich residual	streams into biofuels , co-product comr	nodities and traditional bioenergy vectors (heat and power)		
		E. Chornet, R. P. Overend, M. Chornet	Enerkem / CRB Innovations (Canada)		
14:50 Research activities in polygeneration in Germany within the BMU-funding program		tion in Germany within the BMU-fundin	g programme - Status and prospects		
		D. Pfeiffer, D. Thraen	German Biomass Research Centre (Germany)		
5:15	Future potential of flexible integrated gasification poly-generation facilities				
		J.C. Meerman et al.	Utrecht University (Netherlands)		
5:40	Future ways of biorefineries	T. Targiel	Wuppertal Institute for Climate, Environment and Energy (Germany)		
		D. Maga	Fraunhofer-Institute for Environmental, Safety and Energy Technology		
		U. R. Fritsche et al.	Institute for Applied Ecology (Germany)		
16:05	Final consideration & outlook	H. Hofbauer	Vienna University of Technology (Austria)		
		M. Kaltschmitt	German Biomass Research Centre, Hamburg University of Technology (Germany)		

EXCURSION (TWO ALTERNATIVE TOURS ARE OFFERED)

TOUR 1

8:00 - 15:00

Excursion to the BIOETHANOL PLANT, ZEITZ and the BIOMETHANE PLANT KÖNNERN

Timetable

08:00 - 13:00 Excursion 13:00 - 14:00 Lunch

15:00 Arrival in Leipzig

TOUR 2

8:00 - 15:00

Excursion to the

WASTE FERMENTATION PLANT, WEISSENFELS,
THE LARGE BIOGAS POWER PLANT TO
GENERATE ELECTRICITY, MÖHRSDORF and the
GERMAN BIOMASS RESEARCH CENTRE (DBFZ), LEIPZIG

Timetable

9:00 - 12:00 Excursion 12:00 - 13:30 Lunch 13:30 - 15:00 Excursion

EXCURSION

Thursday, 9th September 2010

IMPRESSIONS



Bioethanol plant in Zeitz



Biomethane plant in Könnern



Waste fermentation plant in Weißenfels



German Biomass Research Centre in Leipzig

CHARGES

INFORMATION

Deutsches BiomasseForschungsZentrum (DBFZ)

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Find more Information at www.icps-conference.eu

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