August, 30th – September, 1st | 2011 Vienna | Austria

ICPS 11
International Conference on Polygeneration Strategies

PROGRAM

www.icps-conference.eu

	TOPICS	CHARGES	
→	Gasification	Regular:	€ 450,
→	Gas Treatment	Students:	€ 350,
→	Syngas Application		
→	Modeling and Simulation		

**

SCIENTIFIC COMMITTEE

Hermann Hofbauer, Vienna University of Technology
Martin Kaltschmitt, Hamburg University of Technology
Johan Einar Hustad, Norwegian University of Science and Technology
Pier Ugo Foscolo, University of L'Aquila
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

MAP

Vienna University of Technology

Karlsplatz 13 1040 Wien



CONFERENCE VENUE



SOCIAL EVENT



Mount Kahlenberg, 1190 Wien, Am Kahlenberg 2-3



Fuhrgassl-Huber, 1090 Wien, Neustift am Walde 69

TUESDAY, 30th August 2011

08:00	Registration	Organization committee	
09:00	Initial welcome and Introduction		
10:00	Coffee break		
	GASIFICATION		
10:30	gasification session	introduction by the chairman	
10:40	the influence of space time on the performance of a 100kw dual fluidised bed gasifier in steam gasification of woody biomass	Saw W., Gilmour I.	University of Canterbury
11:00	the agnion heatpipe-reformer — operating experiences and evaluation of fuel conversion and syngas composition	Gallmetzer G., Ackermann P.	Highterm Research GmbH
11:20	a new dual fluidized bed gasifier design for improved in situ conversion of hydrocarbons	Schmid J., Pfeifer C.	Vienna University of Technology, Institute of Chemical Engineering - Future Energy Technology
11:40	fluidized bed membrane gasifier for renewable hydrogen production	Pugsley T., Gerspacher R.	University of Saskatchewan
12:00	experimental results on hydrogen production from biomass applying the adsorption enhanced reforming (aer) process i a 200kwth dual fluidized bed	Poboss N.	University of Stuttgart
12:20	gasification of plastic residues in a dual fluidized bed gasifier	Wilk V.	Bioenergy2020 GmbH
		Hofbauer H.	Vienna University of Technology
12:40	Lunch		
14:00	gasification session	introduction by the chairman	
14:10	effect of iron supported olivine on the distribution of tar compounds derived by steam gasification of biomass	Wolfesberger U.	Vienna University of Technology, Institute of Chemical Engineering - Future Energy Technology
14:30	steam/o2 biomass gasification and in-bed contaminants removal	Freda C., Barisano D.	Enea
14:50	attrition of wood pellets and chips during fluidized bed gasification	Scala F., Ammendola P.	Istituto di Ricerche sulla Combustione — CNR
15:10	Coffee break		
15:40	investigation of flow behaviour in biomass gasifier using electrical capacitance tomography and pressure sensors	Thapa R. K., Rautenbach C.	Telemark University College
16:00	carbon conversion predictor for fluidized bed gasification of biomass fuels - from tga measurements to char gasification particle model	Konttinen J., Moilanen A. Moilanen A.	University of Jyväskylä VTT Processes
	SYNGAS APPLICATION		
16:20	approaches to syngas co-firing in an industrial boiler	Yang W., Dongjin Y.	Korea Institute of Industrial Technology
	SOCIAL EVENT		
19:30	reception by the mayor of the city of vienna at heurigen restaurant "fuhrgassl-huber" — 19., neustift am walde 69	Organization committee	

WEDNESDAY, 31th August 2011

Organization committee introduction by the chairman Prantauer M., Hofmann A. Uendo L., Youngdoo K. Mayerhofer M. di Ninno F. Hein D., Wiedenmann F.	MCI - University of Applied Sciences Korea Institute of Industrial Technology Technische Universität München, Universita di Bologna
Prantauer M., Hofmann A. Uendo L., Youngdoo K. Mayerhofer M. di Ninno F.	Korea Institute of Industrial Technology Technische Universität München, Universita di Bologna
Prantauer M., Hofmann A. Uendo L., Youngdoo K. Mayerhofer M. di Ninno F.	Korea Institute of Industrial Technology Technische Universität München, Universita di Bologna
Uendo L., Youngdoo K. Mayerhofer M. di Ninno F.	Korea Institute of Industrial Technology Technische Universität München, Universita di Bologna
Mayerhofer M. di Ninno F.	Technische Universität München, Universita di Bologna
di Ninno F.	Universita di Bologna
Hein D., Wiedenmann F.	11 1 12 (6) 0
	University of Siegen, Department of Energy and Environmental Process Engineering
Seemann M.	Chalmers University of Technology
Rabou L., van der Drift B.	ECN
introduction by the chairman	
Schmid M. Gutzwiller S.	Centre of AppropriateTechnology & Social Ecology Pyreg Schweiz GmbH
Schulzke T., Girod K.	Fraunhofer Institute for Environmental, Safety and Energy
Sauciuc A. Abosteif Z.	Transilvania University of Brasov Karlsruhe Institute of Technology
Schablitzky H., Lichtscheidl J.	OMV Refining & Marketing
Fendt S., Tremel A.	Technische Universität München
Müller S., Rauch R.	Vienna University of Technology, Institute of Chemical Engineering - Future Energy Technology
Dimitriou I., Bridgwater T.	Aston University
Meerman J.C., Ramirez A.	Utrecht University, Copernicus Institute
Organization committee	
	introduction by the chairman Schmid M. Gutzwiller S. Schulzke T., Girod K. Sauciuc A. Abosteif Z. Schablitzky H., Lichtscheidl J. Fendt S., Tremel A. Müller S., Rauch R. Dimitriou I., Bridgwater T. Meerman J.C., Ramirez A.

EXCURSION (TWO ALTERNATIVE TOURS ARE OFFERED)

FULL DAY EXCURSION (TOUR 1)

8:00 - 18:00

Excursion to the

CHP OBERWART and the CHP GÜSSING (TECHNIKUM, BIOFT, BIOSNG)

Timetable

	08:00 - 12:00	Visitation of th	ne CHP Oberwart
--	---------------	------------------	-----------------

12:00 - 13:00 Lunch

13:00 - 18:00 Visitation of the CHP Güssing (Technikum, BioFT, BioSNG)

HALF DAY EXCURSION (TOUR 2)

9:00 - 12:00

Excursion to the

VIENNA BIOMASS PLANT

Timetable

09:00 - 12:00	Visitation of Vienna Biomass Plant
---------------	------------------------------------

12:00 - 13:00 Lunch

13:00 - 14:00 Transfer back to Vienna via Vienna International Airport

EXCURSION

Thursday, 1st September 2011

IMPRESSIONS



Oberwart



Vienna Biomass Plant



Güssing

CHARGES

INFORMATION

Vienna University of Technology

Institute of Chemical Engineering

Department of Chemical Process Engineering and Fluidization

ICPS 11 Organization Committee

Getreidemarkt 9/166

1060 Vienna

+43 1 588 01-166 309

www.icps-conference.eu

Find more Information at www.icps-conference.eu

Veranstalter:









