

IEA Bioenergy Task 42 Meeting
Worms, Parkhotel PrinzCarl Germany
15-17 September 2009

Location details

Parkhotel PrinzCarl
Prinz-Carl-Anlage 10-14
67547 Worms
Germany

Costs: €85-95/night, please reserve your own stay and mention IEA Bioenergy Task 42 meeting to receive this reduced price.

Phone: +49-6241 / 380-0
www.parkhotel-prinzcarl.de
info@parkhotel-prinzcarl.de

Travelling by train from Frankfurt Airport to Parkhotel Prinz Carl

The Travel Centre is at terminal 1, section B, level 0.

The ticket machine is at terminal 1, level 0.

The hotel assembled a short list of travel opportunities and their departure times.

The times are as follows:

For example:

Departure : 6.02 pm Frankfurt (Main)
 Frankfurt (Main) (change)
 Niederrad station
 Biblis station (change)
 7.13 pm Worms main station arrival

or

 6.28 pm Frankfurt (Main)
 Mainz Römisches Theater station (change)
 7.35 pm Worms main station arrival

You also got the choice to depart at 6.58 pm (changes according 6:28 pm). The travelling times are the same every hour, only the times of the trains which depart in the 50 min. are changing sometimes.

Consultancy and Booking in both Travel Centres are possible.

Opening times: daily from 6.00 am till 10.00 pm.

From the main station Worms it is only about 200 metres to the hotel. Out of the station, walk straight ahead to the *Renzstraße* direction straight crossing the street at the traffic light, crossing the *Pfortenring* into the *Prinz-Carl-Anlage* where you will find the hotel on the right hand side.

Agenda IEA Bioenergy Task 42 Meeting
Worms, Parkhotel PrinzCarl Germany, 15-17 September 2009

Tuesday 15 September 2009: Workshop with German Stakeholders

1. General Aspects (Chair: Ed de Jong)

Speakers	Time
Birger Kerckow, FNR Welcome Address	9:00
Ed de Jong, Avantium, NL Presentation of IEA Bioenergy Task 42 incl. short introduction of the Task members	9:05
Birger Kerckow, FNR Framework and Funding of Biorefineries in Germany	9:20
Ricardo Gent, VCI-DIB “Biorefineries – an Option for Chemical Industry”	9:40
Oliver von Ledebur, vTI-Braunschweig “Feedstock Potentials in Germany and Global Aspects”	10:00
Discussion	10:20
Coffee/tea break	10:40

2. Technologies (Chair: K.-D. Vorlop)

Jürgen Puls, vTI-Hamburg "Pretreatment Options for Refining lignocelluloses“	11:00
Klaus Vorlop, vTI-Braunschweig “Chemical Catalyses in Biorefineries”	11:20
Thomas Willke, vTI-Braunschweig “Bioconversion Processes in Biorefineries”	11:40
Discussion	12:00
Lunch	12:15

2. Technologies cont. (Chair: K.-D. Vorlop)

Kai Muffler, Roland Ulber, TU-Kaiserlautern Renewable Resources as Feedstock for the Chemical Industry	13:40
Burkhard Ernst, BASF “Biorefinery Concepts for Low Cost Chemicals”	14:00
Stephan Kabasci, Fraunhofer UMSICHT “Succinic Acid, Biodiesel and Bio-Syngas – Building Blocks for Biorefineries”	14:20
Discussion	14:40

3. Concepts and Commercial Plants (Chair: B. Kerckow)

Jochen Michels, DECHEMA “The German Lignocellulose Feedstock Biorefinery Project	15:00
Uwe Welteroth, Linde KCA “Case Study Biorefinery Leuna”	15:20
Birgit Kamm, BIOPOS “Green Biorefinery”	15:40
Ulrike Schmid-Staiger, Fraunhofer IGB “Algae Biorefinery”	16:00
Discussion	16:20
Coffee/tea break	16:40
Wolfgang Wach, Südzucker “Sugar Biorefinery”	17:00
Ferdinand v. Keyserling, MERCER-Zellstoff Stendal “Lignocellulose Biorefinery”	17:20
Michael Deutmeyer, CHOREN-Biomass “The Choren Technology”	17:40
Discussion & Summery	18:00
Dinner	18:30

List of Participants Workshop with German Stakeholders

Boniface, Leonard	IEA-Task 42-France ADEME, Paris
Bronnenmeier, Karin	Linde KCA, Dresden
Bullock, Graeme	IEA-Task 42-Australia Queensland University (BioIndustry Partners), Brisbane
Buckley, Pearse	ERA-Net Bioenergy, Ireland
Cherubini, Francesco	IEA-Task 42-Austria Joanneum Research, Graz
De Bari, Isabella	IEA-Task 42-Italy
De Jong, Ed	IEA-Task 42-Netherlands Avantium Technologies, Amsterdam
Deutmeyer, Michael	CHOREN Biomasse GmbH, Hamburg
Ernst, Burkhard	CEB – BASF, Ludwigshafen
Freyer, Stephan	CEB – BASF, Ludwigshafen
Gent, Ricardo	VCR-DIB
Georgiadou, Maria	IEA-Task 42 European Commission, Brussel
Herzberg, Dennis	CLIB 2021 Düsseldorf
Jørgensen, Henning	IEA-Task 42-Denmark
Jungmeier, Gerfried	IEA-Task 42-Austria Joanneum Research, Graz
Kabasci, Stephan	Fraunhofer-UMSICHT, Oberhausen
Kamm, Birgit	Biopos e. V. Teltow
Kerckow, Birger	Agency of Renewable Resources (FNR), Germany
Keyserling, Ferdinand v.	Mercer International - Zellstoff Stendal
Klembara, Melissa	IEA-Task 42 – USA
Kwant, Kees	ERA-Net Bioenergy, NL
Langeveld, Hans	IEA-Task 42-Netherlands Biomass Research
Ledebur, Ernst Oliver v.	Johann Heinrich von Thünen-Institut (vTI), Braunschweig
Mandl, Michael	IEA-Task 42-Austria Joanneum Research, Graz
Michels, Jochen	DECHEMA, Frankfurt
Muffler, Kai	Technical University of Kaiserslautern – Bioengineering
Piquette Kirsty	IEA-Task 42-Canada Department of Agriculture and Rural Development, Edmonton, Alberta
Puls, Jürgen	Johann Heinrich von Thünen-Institut (vTI), Hamburg
Rudloff, Mathias	CHOREN Industries GmbH, Freiberg
Schmid-Staiger, Ulrike	Fraunhofer IGB, Stuttgart
Skiadas, Joannis	IEA-Task 42-Denmark Aalborg University

van Ree, Rene	IEA-Task 42-Netherlands WUR, Wageningen
Vorlop, Klaus-Dieter	IEA-Task42-Germany Johann Heinrich von Thünen-Institut (vTI), Braunschweig
Wach, Wolfgang	Südzucker AG, Mannheim/Ochsenfurt
Walsh, Patrick	IEA-Task 42-Ireland GMIT, Galway
Wellisch, Maria	IEA-Task 42-Canada Natural Resources Canada, Ottawa
Welteroth, Uwe	Linde KCA, Dresden
Willke, Thomas	IEA-Task42-Germany Johann Heinrich von Thünen-Institut (vTI), Braunschweig

Wednesday 16 September 2009: IEA Bioenergy Task 42 Meeting

9:00 – 9:15	Introduction members	All
9:15 – 10:00	Short presentations new members (20 minutes each)	Italy and U.S.
10:00 – 10:15	Current Status Task activities	Ed
10:15 – 11:00	Status Classification System	Gerfried, All
11:00 – 11:15	Coffee Break	
11:15 – 12:30	2010 – 2012 Activity Plan	René
12:30 – 13:30	Lunch	
13:30 – 14:30	Economic/Ecological Advantages Biorefineries over Conventional Processes – Worked-out examples:	
	1) Green Biorefinery	Michael
	2) Cellulosic Ethanol Biorefinery	Henning
14:30 – 15:00	New website set-up	René
15:00 – 15:30	Dissemination approach	René
15:30 – 16:00	Coffee Break	
16:00 – 16:30	Co-production biofuels/chemicals	Ed
16:30 – 16:45	Co-operation with other Tasks, other IA, others	Ed
16:45 – 17:00	Next Task meetings	All
17:00 – 17:30	Status Report on Funding	Hans Langeveld
17:30 – 18:00	Programme Thursday	René/Thomas
20:00	Dinner	

IEA Bioenergy Task 42 – BIOREFINERY – National Representatives 2010 onwards

Country	Name National Representatives	Organisation	E-mail
Australia	Graeme Bullock Gill Garnier	BioIndustry Partners Australian Pulp and Paper Institute	bullockge@bigpond.com gil.garnier@eng.monash.edu.au
Austria	Gerfried Jungmeier Francesco Cherubini <i>Michael Mandl</i>	Joanneum Research	gerfried.jungmeier@joanneum.at francesco.cherubini@joanneum.at michael.mandl@joanneum.at
Canada	Kirsty Piquette Maria Wellisch	Alberta Agriculture and Rural Development Natural Resources Canada	kirsty.piquette@gov.ab.ca Maria.Wellisch@NRCan-RNCan.gc.ca
Denmark	Henning Jorgensen Ionnasis Skiadas	University of Copenhagen University of Aalborg	hj@life.ku.dk ivs@bio.aau.dk
European Commission	<i>Maria Georgiadou</i>	DG Research	Maria.georgiadou@ec.europa.eu
France	Leonard Boniface	ADEME	leonard.boniface@ademe.fr
Germany	Thomas Willke Klaus-Dieter Vorlop	Johann Heinrich von Thunen-Institut	thomas.willke@vti.bund.de klaus.vorlop@vti.bund.de
Italy	Isabella De Bari	ENEA	isabella.debari@enea.it
Netherlands	Ed de Jong René van Ree Hans Langeveld	Avantium B.V. WUR – Bio-based Products Biomass Research B.V.	ed.dejong@avantium.com rene.vanree@wur.nl hans@biomassresearch.eu
New Zealand	?	?	
U.S.	Melissa Klembara	U.S. – DOE	Melissa.Klembara@hq.doe.gov
Countries that have still have to decide to participate or not			
Ireland	<i>Patrick Walsh</i>	Galway – Mayo Institute of Technology	Patrick.Walsh@gmit.ie
Japan	?	?	
Belgium	?	?	
UK	?	?	
Sweden			

The representatives in bold will attend this Task Meeting
Of the representatives in italic it is still not sure or they will attend
PLEASE LET ME KNOW ASAP (Rene.vanree@wur.nl) !!!

Thursday 17 September 2009: ERANET Meeting and Excursion

**9:00 – 12:00 Eranet Bioenergy – Task 42 meeting on identification
major biorefinery RTD issues - Pearce Buckley, All**

AGENDA

1. Welcome
2. Aim of the workshop
3. Introduction to ERA-Net Bioenergy
4. ERA-Net Bioenergy Scoping document (see attachment)
5. Tour de table – views of IEA Bioenergy Task 42
6. Discussion
7. Identification of possible projects for ERA-Net consideration
8. Conclusions

12:00 – 17:00 Excursion to Sudzucker - Thomas Willke, All

SCOPING DOCUMENT

JOINT WORKSHOP: ERA-NET BIOENERGY AND IEA BIOENERGY TASK 42 BIOREFINERIES: CO-PRODUCTION OF FUELS, CHEMICALS, POWER AND MATERIALS FROM BIOMASS.

Date: 17th September 2009

OBJECTIVE: Identify potential projects that could be considered by ERA-Net Bioenergy for joint calls.

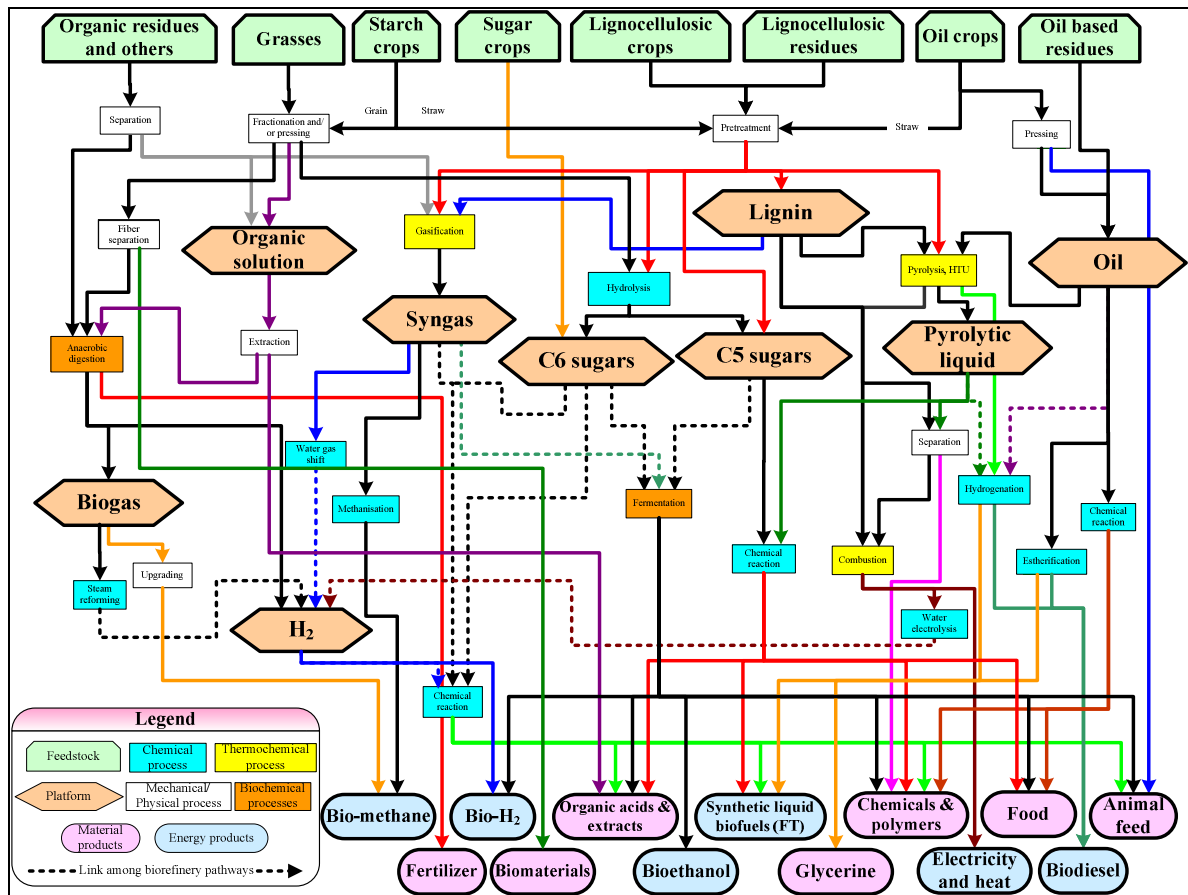
Current activities of IEA Task 42

The current activities of IEA Task 42 can be broadly defined as follows:

- Organising meetings between National Task Representatives and their national stakeholders by inviting them to bi-annual Task Meetings and related workshops, and informing them on the latest developments within the biorefinery field (through minutes bi-annual Task Meetings, newsletters).
- External knowledge dissemination through i) setting-up and management of the Task website, ii) preparation and distribution of a Task newsletter (4 times a year), and iii) preparation of an Annual Status Report on Biorefineries in the Participating Countries.

Specific actions that have been ongoing to date are as follows:

1. Bringing together key stakeholders normally operating in different market sectors (e.g., agriculture and forestry, transportation fuels, chemicals, energy, etc.) in multi-disciplinary partnerships to discuss common biorefinery-related topics, to foster necessary RD&D trajectories, and to accelerate the deployment of developed technologies (platform function).
2. Fine-tuning and finalising the Biorefinery Classification System (see diagram on ext page) and the Definition (if necessary).
3. Mapping and assessing biorefinery-related RD&D programmes in the Participating Countries to help national governments to define their national biorefinery policy goals and related programmes.
4. Identifying the most promising bio-based products – i.e. food, feed, added-value materials (a.o. fibre-based) and chemicals (functionalised chemicals and platform chemicals (building blocks)) to be co-produced with bioenergy, to optimise overall process economics, and minimise the overall environmental impact. This process will include a rough estimation on current/future market volumes and prices.
5. Assessing the current status and developments within three (one per year) specific biorefinery areas, viz.: “biofuel-driven”, “marine”, and “food/feed-driven”.
6. Preparing a Strategic Position Paper concerning “Adding Value to the Sustainable Utilisation of Biomass on a Global Scale – Biorefinery”.
7. Developing and implementing a M.Sc. level biorefinery course to familiarise students with the concept of biorefineries and the underpinning logic.



Expected output of Joint workshop

ERA-Net Bioenergy reviewed the biorefinery area based on a draft document prepared in conjunction with the Irish country representative of IEA Bioenergy Task 42. Following discussion two areas were identified as possibilities for projects that might lead to joint call(s) under ERA-Net Bioenergy:

1. Project of further assessments that identify best practice in present biorefinery technology e.g. Mapping and assessing (point 3 above).
2. Project that groups countries and industry in several countries to accelerate adoption of suitable feedstock to technology based upon resources within particular countries/regions.