



BIOSYNERGY

EC supported FP6 Integrated Project Project

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IEA
Bioenergy
Task 42
Biorefineries

www.IEA-Bioenergy.Task42-Biorefineries.com

Biorefinery Course

“Adding Value to the Sustainable Utilisation of Biomass”

RRB5 satellite event

Genth, Belgium, 12 June 2009

“De Bijloke”, 13:00 – 17:00

Free of charge

Introduction

Biorefining is the sustainable processing of biomass into a spectrum of bio-based products (food, feed, chemicals, materials) and bioenergy (biofuels, power and/or heat) [Definition IEA Bioenergy Task 42 on Biorefineries]. Both **product-driven biorefineries** and **energy-driven biorefineries** can be distinguished. In product-driven biorefineries the biomass is fractionised into a portfolio of bio-based products with maximal added-value and minimal ecological impact, after which the process residues are used for power and/or heat production, for both internal use and selling of the surplus to national grids. In energy-driven biorefineries the biomass is primarily used for the production of secondary energy carriers (biofuels, power and/or heat); process residues are sold as feed (current situation), or even better are upgraded to added-value bio-based products, to optimize economics and ecologies of the full biomass supply chain. Other biorefinery concepts that are mentioned in literature are: Green Biorefineries, Whole Crop Biorefineries, Lignocellulosic Feedstock Biorefineries (Thermo-chemical Biorefinery/Syngas-Platform, Bio-chemical Biorefinery/Sugar-Platform, Two Platform Concept Biorefinery, Forest-based Biorefinery), Marine Biorefineries (Micro Algae Biorefinery, Seaweeds (macro algae) Biorefinery).

Course Set-up

In this course the biorefinery concept will be lectured in its full scope, including: current status & developments, definition & classification, different concepts, and sustainability issues (LCA).

Programme

	Subject	Lecturer
13.00 – 13.30	Registration	
13.30 – 14:00	General Introduction on Biorefinery	Prof.dr. Johan Sanders (NL)
14.00 – 14.20	Current Status & Developments	Dr. Ed de Jong (NL)
14.20 – 14.40	Definition & Classification	Dr. Gerfried Jungmeijer (AT)
14.40 – 15.10	Lignocellulosic Feedstock Biorefinery – BioSynergy and beyond	Dr. Hans Reith (NL)
15.10 – 15.40	Green Biorefinery	Dr. Michael Mandl (AT)
15.40 – 16.00	Coffee Break	All
16.00 – 16.30	Marine Biorefinery	Dr. Maria Barbosa (NL)
16.30 – 17.00	Sustainability Assessment - LCA	Dr. Gerfried Jungmeijer (AT)

For participation in this course, please send an e-mail containing your name, company name, full address, e-mail address, and phone number to

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Deadline for registration
22 May 2009