



INTERNATIONAL WORKSHOP

Innovative uses of glycerol from the biodiesel process

Tuesday, 13th December 2011

NH Atlanta Hotel, Boulevard Adolphe Max 7, 1000 Brussels

Background

Under topic ENERGY.2007.3.3.2 of the 2007 call for the Seventh Research Framework Programme (FP7) the European Commission supports the development of new technologies for using glycerol in biorefineries. The aim of the Call was to support the development of innovative conversion technologies for the conversion of glycerol into new bioproducts including transport biofuels. Research results are expected to maximise the renewable energy output from biodiesel plants, thus optimising the economics of the biodiesel process.

Three glycerol valorization research projects are supported under this Call: **SUPERMETHANOL** (Reforming of crude glycerine in supercritical water to produce methanol for re-use in biodiesel plants), **GLYFINERY** (Sustainable and integrated production of liquid biofuels, green chemicals and bioenergy from glycerol in biorefineries), and **PROPANERGY** (Integrated bioconversion of glycerine into value-added products and biogas at pilot plant scale). The first project focuses on thermal-chemical conversion whereas the latter two projects focus on biological conversion routes. A common feature of the three projects is the development of a sustainable solution for the management of the glycerol by-product from biodiesel refineries improving the economics and environmental impact of existing processes. The three research projects will all be close to completion by the end of 2011 and they have agreed to organise a joint one-day dissemination workshop.

Scope and Objectives of the Workshop

The workshop aims to bring together industry and research partners from across Europe, with an interest in the research issues involved and the practical aspects of applying glycerol for innovative high-value purposes. On the agenda there are presentations from invited speakers from industry interspersed with overview presentations on current markets for biofuels and different grades of glycerol, the use of glycerol as a building block for biochemicals and bioproducts, and technological innovations and other major outcomes of each of the three research projects.

In addition, representatives of DG Research of the European Commission will justify the motivation for the EC support of the glycerol valorisation and also will present the recent as well as future developments in relation with the European Industrial Bioenergy Initiative (EIBI), backed by the European Biofuels Technology Platform (EBTP)

Language: English

Fee: The seminar is free of charge and includes soft drinks, coffee and lunch buffet for all registered attendants.

Registration: If you would like to attend the workshop, please contact **Mr. Miguel A. París** at ACCIONA by e-mail workshop-registration@supermethanol.eu, and submit the registration form (or copy the requested info in the body of your message) **before 8th December 2011**.





Workshop Agenda (final version 9.12.2011)

9:00 – 9:30	Arrival and registration of participants	
	Session 1 (Chair: Dr. Robbie Venderbosch)	
9:30 - 9:45	Why did EC support glycerine valorisation?	Dr. M. Georgidaou , Project Officer European Commission, DG Research and Innovation - K.3 New and Renewable Energy Sources
9:45 - 10:15	Introduction on glycerol as co-product of biodiesel production	Wim De Greyt , R&D Manager Desmet Ballestra Group , Brussels (Belgium)
10:15 - 10:45	Industrial scale bio-methanol production from glycerine at BioMCN in Delfzijl	Roger Blokland , Business Development Manager. BioMCN , Delfzijl (NL)
10:45 - 11:15	Coffee break	
	Session 2 (Chair: Dr. Peter Ruhdal Jensen)	
11:15 - 11:45	Sustainable and integrated production of liquid biofuels, green chemicals and bioenergy from glycerol in biorefineries (GLYFINERY)	Dr. Mhairi Workman , Associate Professor Technical University of Denmark (DTU-Systems Biology) , Lyngby (DK)
11:45 - 12:15	Life cycle assessment of green chemicals and bioenergy from glycerol in biorefineries (GLYFINERY): environmental and economic aspects	Maria Mueller-Lindenlauf , Institute for Energy and Environmental Research (IFEU), Heidelberg (DE) and Jacob Birke Reves (Biogasol ApS) , Ballerup (DK)
12:15 - 12:45	The production of methanol from glycerol-derived syngas (SUPERMETHANOL)	Ir. Joost van Bennekom , Department of Chemical Technology Faculty of Mathematics and Natural Sciences, University of Groningen (NL)
12:45 - 13:45	Buffet lunch	
	Session 3 (Chair: Prof. Erik Heeres)	
13:45 - 14:15	Main observations and highlights from the SUPERMETHANOL project	Dr. Ir. Robbie Venderbosch , Senior Process Engineer. BTG Biomass Technology Group BV Enschede (NL)
14:15 - 14:45	Integrated bioconversion of glycerine into value-added products and biogas at pilot plant scale (PROPANERGY)	Dr. An-Ping Zeng , Professor, Institute of Bioprocess and Biosystems Engineering, Hamburg University of Technology , Germany
14:45 - 15:15	Microbial production of 1,3-propanediol from mini-plant to pilot plant scale (PROPANERGY)	Dipl.-Ing. Thomas Kaeding Agraferm Technologies , Heffingen (LU)
15:15 - 15:35	Coffee break	
	Session 4 (Chair: Dr. Heinrich Follmann)	
15:35 - 15:55	Novel routes to glycerol alkyl ethers by telomerization and etherification of crude glycerol	Pieter Bruijninx , Assistant Professor, Department of Chemistry, University Utrecht
15:55 - 16:25	Wider perspectives for biofuel production and future possibilities	Morten Harmsen , Project Coordinator Novozymes AS , Bagsvaerd (DK)
16:25 - 16:40	Recent and future developments of the European Industrial Bioenergy Initiative (EIBI)	Dr. V. Rimbart & Dr. J. Ruiz-Espí , Project Officers - European Commission, DG Research and Innovation
16:40 - 17:10	Round table & Open discussion (led by partners of the 3 projects)	Prof An-Ping Zeng (PROPANERGY) Dr. Peter Ruhdal Jensen (GLYFINERY) Dr. Rob Venderbosch (SUPERMETHANOL)
17:10	Closure of the workshop	





How the workshop will benefit you

The workshop offers a great opportunity to learn more about the opportunities offered by finding new uses for glycerol to improve the economics of biodiesel production and to improve the bio-based economy in Europe. Proposals for glycerol transformation across Europe will be shared at the workshop and special attention will be paid to improvements in the energy balance, carbon performance, sustainability and overall economics of biodiesel production.

The workshop is addressed to the biofuel sector player, the biochemical industry and small companies that are eager to network, collaborate and innovate in order to be prepared for the new demands and conditions that may arise once the current downturn period is over, as well as policy makers who are in charge of launching or implementing energy policies in their regions. The workshop is also of interest to researchers over a wide range of scientific disciplines.

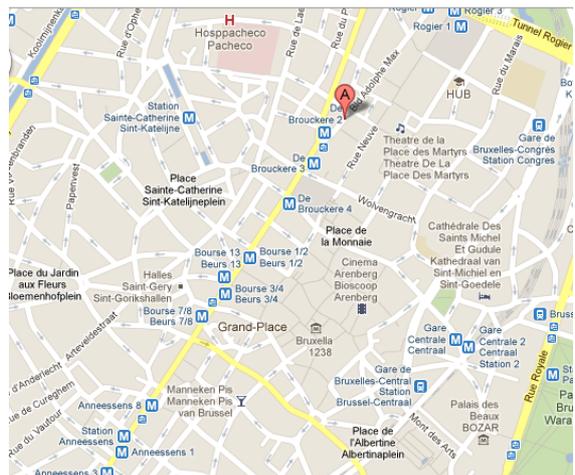
Project web pages:

SUPERMETHANOL	Reforming of crude glycerine in supercritical water to produce methanol for re-use in biodiesel plants	www.supermethanol.eu
GLYFINERY	Sustainable and integrated production of liquid biofuels, green chemicals and bioenergy from glycerol in biorefineries.	www.glyfinery.net
PROPANERGY	Integrated bioconversion of glycerine into value-added products and biogas at pilot plant scale.	www.propanergy.eu

How to get to the workshop venue?

The workshop will take place at the NH Atlanta Brussels Hotel, which is located at Boulevard Adolphe Max 7, 1000 Brussels on Tuesday 13th December 2011.

NH Atlanta Brussels (marked as **A** on the map below) is within walking distance of the city's most historic sights and venues. Centrally located on Adolphe Max Boulevard parallel to Brussels' famous shopping district, you can walk to the Manneken Pis, The Grand Place and the Royal Palace. Brussels Central Station and Brussels Nord are easy to reach for the perfect connection to other European cities. The closest **metro station** is **De Brouckere**, which is only one stop distance from **Brussels Train Central Station**.





Registration Form

Workshop: Innovative uses of glycerol from the biodiesel process

Date: 13th December 2011

**Venue: NH Atlanta Hotel
Boulevard Adolphe Max 7, 1000 Brussels (Belgium)**

To be submitted to Mr. Miguel A. París at ACCIONA by
e-mail: workshop-registration@supermethanol.eu before 8th December 2011

Name and surname	
Position	
Organisation	
Address	
Telephone number	
e-mail	

