

Speakers

Anders Åsblad (Industrial Energy, Chalmers Industrial Technology), **Bruno Sommer Ferreira** (Biotrend - Inovação e Engenharia em Biotecnologia, SA); **Clemente Pedro Nunes** (ExCo-IETS Member); **Ed de Jong** (Bionergy-Task 42 Manager); **Isabel Cabrita** (Annex XI Manager); **Jan Sandvig** (Weel & Sandvig/IETS –chairman); **Joanna Dupont** (Industrial Biotechnology Director at EuropaBio); **Johan Elvnert** (Manager of the Forest-based Sector ETP); **José Granjo** (DEQ/FCTUC); **Ludo Diels** (Vito NV); **Nuno Oliveira** (DEQ/FCTUC); **Patrik Löwnertz** (ChemRec); **Thore Berntsson** (Chalmers University); **Yvon Le Henaff** (ARD)

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- **Ludo Diels**, Vito NV, Belgium
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- **Thore Berntsson**, Chalmers University, Sweden
- **Clemente Pedro Nunes**, CPQ/IST/UTL, Portugal

Further Contacts

Isabel Cabrita isabel.cabrita@lneg.pt
Ludo Diels ludo.diels@vito.be

Registration & more information on Web : <http://gnip.ist.utl.pt/>

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Industrial Energy-Related Technologies and Systems

An Implementing Agreement established under the auspices of the International Energy Agency

INTERNATIONAL WORKSHOP

within Innovation for Sustainable Production Conference (i-SUP 2012)

INDUSTRY-BASED BIOREFINERY SYSTEMS & PROCESS EFFICIENCY



May 10th, 2012
Bruges, Belgium

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The increase in energy demand worldwide has been a source of various concerns. Energy supply security is becoming more and more a serious matter of concern for governments, along with the environmental impact that is expected to grow namely with regard to climate change. The IEA-IETS Implementing Agreement is focused on Industrial Energy-related Technologies and Systems, a sector that plays a relevant role in terms of technology and is fundamental to the economy throughout the world. This Agreement has been collaborating with governments in actions related with energy efficiency and CO₂ reduction.

There is an extensive work being carried out worldwide towards energy reduction and process efficiency, focusing in various conversion processes. It is believed that the real challenge is closely connected to the integration of different processes leading to energy production, fuels and high-added value bio-products by using cheap resources, while guarantying feedstock availability for energy efficient decentralized applications. Fuels diversity, along with energy efficiency and reduction of CO₂ emissions, is one of the areas selected for implementing cooperation at R&D level within the scope of the work of IEA Implementing Agreement on Industry-based Biorefineries (Annex XI). Development of models for LCA and energy efficiency assessment as well as R&D on the use of cheaper raw materials such as cellulose sources for bio-products production, algae transformation into chemicals, energy production through microbial fuel cells, bio electrochemical fuel cells and also valorization of algae products through hydrolysis are examples of ongoing activities with great opportunity for international collaboration.

A one-day workshop is planned with the objective of sharing experiences and debate on opportunities to enlarge cooperation, leading to new projects, bringing together experts from academia, research centres and industry. This is proposed to be organized within the scope and program of the i-SUP 2012 Conference (www.i-sup2012.org) in Bruges (6-9 May 2012), Belgium.

. The Organizing Committee

Workshop Programme

Site "Oud Sint-Jan", Bruges, Belgium

8h30	Registration (late participants)
	Welcome Session
9h00	Opening REMARKS – Ludo Diels , Isabel Cabrita
9h15	Biorefinery of the Future an Industrial Opportunity – Yvon Le Henaff
	Session I – IEA Technology Framework
9:45	• Industry Energy-related Technology Sytems (IETS)- – Jan Sandvig, Clemente Pedro Nunes • Industry-based Biorefineries (IETS/Annex XI) – Isabel Cabrita • Biorefineries: Co-production of Fuels, Chemicals, Power and Materials from Biomass (Bioenergy/Task 42) – Ed de Jong
10h45	POSTER SESSION & COFFEE BREAK
	Session II – EU Technology Platforms
11h15	• The EU's challenges and opportunities for a world-leading bioeconomy : a policy perspective - Joanna Dupont • <i>Star Colibri</i> project – Johan Elvnert • <i>BioDME</i> project - Patrik Löwnertz
12h30	LUNCH BREAK
	Session III – Annex XI Projects : Progress Report
14h00	• BUGWORKERS - Bruno Sommer Ferreira • ALGAECASCADE/MARFORCE - Ludo Diels • Integrated Biofuel Production Processes Based on Systematic Optimization Methodologies - Nuno Oliveira, José Granjo • Process Integration of Gasification-based Biorefineries - Thore Berntsson, Anders Åsblad
15h30	POSTER SESSION & COFFEE BREAK
	Session IV – Round Table & Final Debate on New Projects
16h00	• Presentation of potential research and/or industry-oriented biorefinery projects
16h30	• Conclusions & reporting on cooperation
17h00	Adjourned