

Organizing Committee

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Registration

IETS, GNIP and SIADEB members	free
CHEMPOR participants & Students	free
Other participants	30€

Registration: <http://gnip.ist.utl.pt/> or

<http://chempor.ordemengenheiros.pt/pt/>

Co-Organization



Suport



Industrial Energy-Related Technologies and Systems
An Implementing Agreement established under the auspices of the International Energy Agency

INTERNATIONAL WORKSHOP

On the way from Biorefineries to a Bioeconomy



September 12th 2014
Oporto, Portugal

September 12th 2014

In 2012, Europe adopted a strategy - “Innovating for Sustainable Growth: A Bioeconomy for Europe”. It is believed that, with the right framework, the Bioeconomy will contribute to reduce adverse impacts on the environment, as well as, the dependence on fossil resources, mitigate climate change and move forward to a new era, succeeding the “Oil” Society. But, the Bio-based world economy poses many challenges for its sustainability, demanding a comprehensive approach to address the various flows, needs and impacts, namely at ecological, environmental, energy, food supply and natural resources levels.

The role of research has been crucial to attain new technological solutions and the new developments have put in place biomass as a flexible resource able to provide energy, fuels and materials. The biorefinery concept emerges in this context in a parallel way to oil refineries. The fact is that a shift to biomass-based raw materials rather than fossil resources and the application of biological processing methods together with chemical or thermochemical ones will lead to substantial savings in terms of CO₂ equivalent of resources leading to new markets for bio-based raw materials and new bio-products.

Consolidating a “Bioeconomy” platform of cooperation also poses challenges. Industry-based biorefineries have evolved significantly in recent years. The fact that food chain industry and integration with fuels and energy production have been proven in a few international projects show that competition might not exist in the future, and energy and food could be considered as two end products to integrate when considering process integration and industrial complexes. Biorefineries are important to consider in terms of industrial plants that actually could help providing employment in rural areas and give an added value to farming activities.

This workshop will focus on the challenges and outcomes related to the biorefinery concept, sharing experiences and debating on the suitability of the concept and opportunities in a market driven framework towards a bio-based economy society, in the near future. What will be the best way to go? Bringing together experts from academia, research centres and industry, the workshop is organized jointly as a satellite workshops of the 12th International Chemical and Biological Engineering Conference (CHEMPOR 2014) <http://chempor.ordemengenheiros.pt>. For workshop participants, the session Biorefineries (morning 12th September at CHEMPOR 2014) is free.

The Organizing Committee

Workshop Program 12th September 2014, Oporto, Portugal

9-14 h	Registration Session ‘Biorefineries’ (CHEMPOR 2014)
	Welcome Session
14h30	Opening Remarks & Introduction <ul style="list-style-type: none"> • Clemente Pedro Nunes (IEA IETS Vice-Chair) • Isabel Cabrita (IEA IETS Annex XI Manager)
	Session I –Vision on Biorefineries/ Bioenergy & Cooperation
15h30	Keynote Speech Thore Berntsson (Chalmers University Professor in Sweden and IEA IETS Chair) <i>The Biobased Economy -A Sustainable Way Forward?</i> Invited Speakers <ul style="list-style-type: none"> • Juan Carrasco (Head of the Biomass Unit in CIEMAT (Spain) and EERA Bioenergy Joint Program Coordinator) <i>Some considerations about the sustainable implementation of biorefinery concepts</i> • Francisco Gírio (Head of LNEG’s Bioenergy Unit (Portugal), member of EERA - Bioenergy Coordination Committee, Portuguese delegate of European Bioenergy Industrial Initiative and Chair of SIADEB) <i>Biomass Biorefineries – an industrial concept that requires a joint R&D effort between industry and RTO’s</i> • Maria João Fernandes & Ana Raposo (Portuguese Contact Points for Horizon 2020 - GPPQ/FCT) <i>Opportunities and challenges for Biorefineries & Bioenergy in the context of Horizon 2020</i>
17 h	Coffee break
	Session II – Round Table - The Way Forward
17h15	<i>What can be done to turn Bioeconomy a reality?</i>
18h15	Conclusions & Recommendations

* Other speakers – to be confirmed