Scope

Scarcity of fossil resources and their high environmental impact is currently causing the necessity for searching sustainable and renewable energy alternatives. In this context, a new approach that tries to cover all aspects related to the use of biomass as a renewable resource arises.

The RESTOENE-2 and INSPIRA-1 Consortia belong to the R&D activities program between research groups in Technology from Comunidad de Madrid.

- The **RESTOENE-2** Consortium (S2013/MAE-2882) outline a very attractive strategy of using agroforest residues to produce clean biofuels to be used in the transport sector with a very low global balance of CO₂. Researchers also belong to an Excellence Network entitled "Production of clean biofuels for transport from lignocellulose biomass" supported by Spanish Ministry of Economy and Competitiveness (CTQ2015-68844-REDT).
- The **INSPIRA-1** Consortium (S2013/ABI-2783) proposes as the main scientific and technological objective to develop biotechnological tools to improve the bacteria Arthrospira platensis (Spirulina) to optimize the biomass production. The aims are to achieve more efficient, productive and nutritious cultures for its direct use as food and feed and to achieve the full use by the production of nutraceutical and pharmaceutical compounds and energy.

The first workshop organized by both Consortia pretends to be a meeting point of scientific experts in the use of biomass for renewable energy production in order to give attendees the opportunity to know the cutting edge of the research activities and consider needs and solution for these themes.

Scientific Program

The scientific program of the workshop will consist of several invited lectures from distinguished speakers, poster presentations and a round table with the final remarks. Assistants are encouraged to present a poster in the workshop. If you are interested, please submit and abstract (maximum 2 pages in English as MS Word file) following the indications on the web site http://www.restoene.net/workshop.html before May 15th, 2016. An USB memory with the proceedings of accepted contributions will be edited and distributed at the workshop.

Registration

No registration fee will be requested for participation at the workshop. However, to attend the conferences it will be necessary to fill the registration form on the web http://www.restoene.net/workshop.html.

Deadline for registration: May 15th, 2016.

Organizing committee

Prof. Juan Antonio Melero URJC Prof. Javier Dufour URJC

Dr. Cristina González IMDEA Energy Dr. Juan Manuel Coronado IMDEA Energy

More information of this event is available at RESTOENE web site: www.restoene.net

Organized by:







Sponsors:













Workshop

BIOMASS RESOURCES FOR RENEWABLE ENERGY PRODUCTION

June 02-03, 2016

IMDEA Energy Institute

Móstoles – Madrid

JUNE 2nd (morning)

9:00 h	Registration
09:45 h	Welcome Ceremony
	David Serrano Granados
	IMDEA Energy (Spain)
	Opening session
	RESTOENE-2 & INSPIRA-1
10:00 h	José L. G. Fierro
	ICP-CSIC (Spain)
	José L. García
	CIB-CSIC (Spain)
	Bioeconomy in the EU: the role of
10:30 h	Bio-Based Industries Joint
	Undertaking
	Paloma Mallorquín
	Bio-Based Industries (Belgium)
11:30 h	Coffee Break
	Thermochemical route for biomass
	conversion to aviation biofuels:
12:00 h	catalytic CO hydrogenation to
12.00 11	higher alcohols
	Eleni Heracleous
	CERTH-CPERI (Greece)
13:00 h	Poster session and lunch

JUNE 2nd (afternoon)

15:30 h	Generals recommendations of LCA for microalgae biofuels: application to biogas production and water impact assessment
	Pierre Collet
	IFP Energies nouvelles (France)
16:30 h	Coffee Break
17:00 h	Xylooligosaccharides from cereal xylans produced by GH Family 10 and 11 xylanases and GH Family 43 and 51 arabinofuranosidase to obtain XOS prebiotic
	Cristina Álvarez Vaquerizo CIEMAT (Spain)
17:20 h	Catalysts for alkaline polymer membrane fuel cells
	Manuel Montiel
	UAM (Spain)
17:40 h	Pt/TiO ₂ photocatalysts for H ₂ production from bioethanol using visible light
	Rufino M. Navarro Yerga CSIC (Spain)
18:00 h	Performance of hierarchical ZSM-5 in catalytic fast-pyrolysis of deashed wheat straw
10.00 11	Héctor Hernando

IMDEA Energy (Spain)

JUNE 3rd (morning)

	Catalyst design for biorefining
09:00 h	Karen Wilson
	Aston University (United Kingdom)
10:00 h	Revalorization of microalgae biomass via anaerobic digestion
	Lara Méndez IMDEA Energy (Spain)
10:20 h	Biogas production from Spirulina maxima: environmental and energy feasibility
	Jovita Moreno URJC (Spain)
40.401	Bioethanol production from microalgae: an applied case study
10:40 h	merousgue, un appareu euse stata)
10:40 h	Mónica Coca Universidad de Valladolid (Spain)
10:40 h	Mónica Coca
	Mónica Coca Universidad de Valladolid (Spain) Microalgae applications for the treatment of CO ₂ and other effluents produced in a waste
	Mónica Coca Universidad de Valladolid (Spain) Microalgae applications for the treatment of CO ₂ and other effluents produced in a waste incineration plant María Álvarez