

Bioenergy III: Present and New Perspectives on Biorefineries

May 22 - 27, 2011

Lanzarote (Canary Islands), Spain

Synopsis

The conference will address the state-of-the-art challenges of the bioenergy generation and biomass conversion (into fuel products and chemicals) and their technical, scientific and economical barriers. It will evaluate the current progress that has been made in bioenergy and biomass conversion research and development, identify industrial successes and best practices, and discuss the most promising future directions.

In addition, it will assess the means to overcome the current constraints for its commercial production. Environmentally sound biobased energy (ethanol, butanol, methane, biodiesel, biohydrogen, biopower, etc.) and products (fine chemicals and pharmaceuticals) can make important contributions to the world economic sustainability and its energy security, rural economic development and environmental quality through the development of additional renewable energy resources from agriculture and agroforestry sectors, generated wastes (farm, industry and municipals) and from the faster implementation of biorefineries.

The conference will focus on a comprehensive view of the impact of the recent advancement and development on the production of bioenergy and biomass conversion via biological, thermal and chemical conversions. The threads of interest will consist of the following: bioethanol production and technological development, anaerobic and aerobic processes for biogas generation, biohydrogen, biobutanol, microbial fuel cell, biomass thermal conversion (gasification, pyrolysis, torrefaction, biopower), biodiesel and biorefinery integration. Related environmental, political, or economical issues will also be included.

Attendees will represent the following areas: bio/chemical engineering, bioprocess engineering, biology, bio/chemistry, environmental science, physics and engineering in both fundamental and applied areas.

The program consists of *keynote lectures*, a single session of *presentations + evening posters*, *free-forum* *evening poster sessions* and *roundtable discussions**.

Conference Organization

The conference chairs are:

Professor *Jesús Arauzo*, Universidad de Zaragoza, Spain (jarauzo@unizar.es
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Professor *Cedric Briens*, University of Western Ontario, Canada (cbriens@eng.uwo.ca
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Dr. *Dietrich Meier*, VTI-Institute of Wood Technology and Wood Biology, Germany
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