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Tentative Program

5th World Bioenergy Congress and Expo

June 29-30, 2017 Madrid, Spain

Theme: Bioenergy: Upgrading sources of energy for future generation



Interactive Sessions | Keynote Lectures | Plenary Lectures | Workshops

Exhibitors | B2B Meetings

For available speaker slots

bioenergy@chemseries.com

http://bioenergy.conferenceseries.com/

Tentative Program

Bioenergy 2017

2nd World Bioenergy Congress and Expo

June 29-30, 2017 Madrid, Spain

Program at A Glance

Day 1

Morning Sessions	Reception/Registration	08.00-09.00	
		Time	General Session
	Least of 5 Keynote/Plenary Talks	09.00-09.15	Inaugural Address
		09.15-09.45	Dr. Weilan Shao
		09.45-10.15	
		10.15-10.45	
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
	11.00-12.40		Biomass feed stocks for renewable energy generation
Evening Sessions			
	Lunch Break 12.40-13.30		
	13.30-15.30		Biomass
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25		Bioenergy Conversion
	17.25-18.35		Renewable Energy

Day 2

Morning Sessions		Time	Session 1	Session 2
	09.00-10.40		Keynote Forum	
	Coffee/Tea Break 10.40-10.55 (Networking)			
	10.55-12.35		Bioenergy Transition	Processes for Bioenergy
Evening Sessions	Lunch Break 12.35-13.25			
	13.25-15.05		Biogas	Biodiesel
	Coffee/Tea Break 15.05-15.20 (Networking)			
	15.20-17.00		Biofuels	Bioenergy Applications

Poster presentation @ 17.00-18.00

Awards & Closing Ceremony

NOTE: Program Schedule is subject to change with final allotment of the speaker slots


Chair of the Conference
Dr. Lew Christopher
Director, Biorefining Research Institute
Lakehead University, Canada
Hearty welcome from the Chair of
Bioenergy 2017


Keynote Speech on
Advanced molecular techniques to improve the activity and production of lignocellulases
JIANGSU UNIVERSITY
Dr. Weilan Shao
Jiangsu University
China



- *Biomass feed stocks for renewable energy generation*
- *Biomass*
- *Bioenergy Conversion*
- *Renewable Energy*
- *Bioenergy Transition*
- *Processes for Bioenergy*
- *Biogas*
- *Biodiesel*
- *Biofuels*
- *Bioenergy Applications*
- *Bioethanol*
- *Biomass Technology*

Call for Abstract: http://bioenergy.conferenceseries.com/call-for-abstracts.php

Abstract Submission: http://bioenergy.conferenceseries.com/abstract-submission.php

Registration: http://bioenergy.conferenceseries.com/registration.php

Glimpses of Bioenergy 2016



















Glimpses of Bioenergy 2016











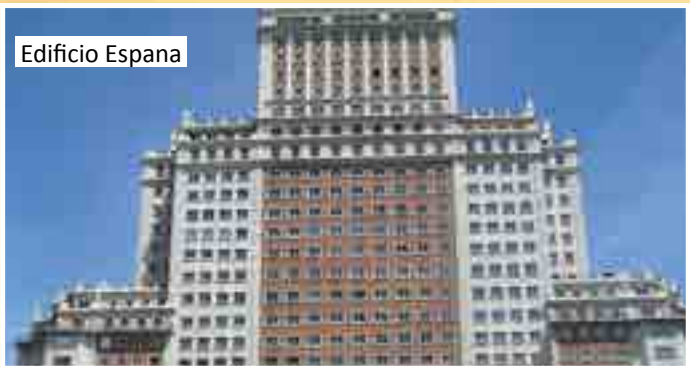

Best Tourist Destinations in Madrid, Spain


Amudena cathedral Church


Clock Tower


Crystal Palace


del Prado Museum


Edificio Espana


Edificio metropolis


El Retrato Museum


Granvia Via Street


Madrid skyline


National Archaeology museum

About Madrid

Madrid is the capital of Spain, and is home to the Spanish Royal family as well as the Spanish Government. It is a modern metropolitan city and an economical and industrial centre of Spain, and, with its population of nearly 3.5 million people, is also the biggest city in Spain.

The weather in Madrid varies a lot depending on the season, from hot and dry in the summer, with temperature of approx. 29˚C to 4˚C and with some rain in the winter. Madrid has many artistic attractions, thanks to the different styles that have left their imprint in the city over the centuries.

From the remains of the old Arab wall, to small Gothic churches and early Renaissance works, Madrid boasts a multitude of rich and varied works of art. Madrid comes from the Arabic word Magerit ("mother of waters"), which was the name that was given to the fortress built on the banks of the Manzanares River by the Umayyad of Cordoba, Muhammed (823-886). Although the city grew under the Arabs for two hundred years, the only remains still standing from that period are the wall and a few towers, which were turned into bell towers.

Three nearby museums, located a stone's throw away from each other, make what is known as the Paseo del Arte art route. These are the Prado, the Thyssen-Bornemisza, and the Reina Sofía National Art Centre. Madrid is also the site of a series of palaces and monuments that together comprise one of the most important heritages in Western history.

The National Heritage organisation is responsible for safeguarding these national assets subject to the use and service of the Crown, in addition to the administration of the convents and monasteries founded by the monarchs over the centuries. These institutions contain a great wealth of artworks, and for centuries served as a driving force for Spain's culture. This group of monuments, open to the public, includes the Royal Palace in Madrid, the Pantheon of Illustrious Men, the Descalzas Reales Monastery, the Royal Monastery of La Encarnación, the El Pardo Royal Palace, the Aranjuez Royal Palace, the Royal Monastery of El Escorial, the Casita del Príncipe in El Escorial, the Casita del Infante in El Escorial and the Benedictine abbey of Santa Cruz del Valle de los Caídos.

Venue

Madrid, Spain

Important Dates

Abstract submission opens: July 01, 2016
Registration opens: July 05, 2016
Early bird registration: December 20, 2016
On spot registration: June 29, 2017



Contact Details:

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Scientific Program

World Bioenergy Congress and Expo

June 13-14, 2016 Rome, Italy



Hosting Organization: Conference Series LLC
2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA, Ph: +1-888-843-8169, Fax: +1-650-618-1417, Toll free: +1-800-216-6499
Email: bioenergy@insightconferences.com

Day 1 June 13, 2016

Registrations

Olimpica 2

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Opening Ceremony

Keynote Forum

Introduction

Consolidated bioprocessing of lignocellulosic materials for cost-competitive bioenergy production

Lew P Christopher, Lakehead University, Canada

Harnessing the biomass recalcitrance for fuels and chemicals: Current state of the arts and our strategies in China

Jianzhong Sun, Jiangsu University, China

Germany's future biogas market – Back to the roots?

Michael Kottner, German Biogas and Bioenergy Society, Germany

Group Photo & Coffee Break @ Foyer

Track 2: Biomass feed stocks for renewable energy generation

Session Introduction

Session Chair: David Lewis, Muradel Pty Ltd, Victoria, Australia

Session Co-chair: Rob Mitchell, University of Nebraska, USA

Title: Microalgae - Are they an appropriate feedstock for biofuels? What are the alternatives?
David Lewis, Muradel Pty Ltd, Victoria, Australia

Title: Herbaceous perennial feedstocks for marginally-productive landscapes in the central USA
Rob Mitchell, University of Nebraska, USA

Title: Optimization of sustainable forest-based biomass supply chains
Taraneh Sowlati, University of British of Columbia, Canada

Title: Characterisation of spent sulfite liquor and its valorisation using Aspen Plus® simulation software
Alberto Coz, University of Cantabria, Spain

Title: Miscanthus for biogas production – Influence of harvest date and stand age on the biochemical methane potential (BMP) and soil properties
Axel Schmidt, University of Trier, Germany

Lunch Break @ Restaurant

Title: Production of polyhydroxybutyrate (PHB) from wheat bran through enzymatic hydrolysis and fermentation
Nallusamy Sivakumar, Sultan Qaboos University, Muscat, Oman

Title: Yellow laccase mediated delignification: An attempt towards eco-friendly pretreatment of lignocellulosics
Rintu Banerjee, Indian Institute of Technology, India

Title: Electricity generation by refined biogas from municipal solid waste
Muhammed Khader Karunnappilli, Petrocare Engineering & Consultancy Services Private Limited, India

Cassava production as an energy crop in Nigeria: Analysis of present and future potentials
Nelson Abila, Busho Serenity Foundation, Ondo State, Nigeria

Compare the ability to generate electricity by Azolla fern's biogas in different systems of small scale CHP
Alireza Mehrdadfar, Islamic Azad University,Tehran, Iran

Coffee Break @ Foyer

Track 4: Bioenergy Transition
Track 7: Processes for Bioenergy

Session Introduction

Session Chair: Ananda S Amarasekara, Prairie View A&M University, USA

Title: Ionic liquid based artificial cellulase type catalysts for cellulosic ethanol process
Ananda S Amarasekara, Prairie View A&M University, USA
Title: Gasification of lactose in supercritical water as a model compound of dairy industry effluent
Janusz A Kozinski, York University, Canada
Title: Sink or Swim: Navigating the Biofuels climate in an oil price recession
Jordan Godwin, Platts, USA
Title: Study on Submerged Anaerobic Membrane Bioreactor (SAMBR) treating hypersaline raw tannery wastewater for biogas production
Umaiyakunjaram R, Central Leather Research Institute, India

Day 2 June 14, 2016

Olimpica 2

Keynote Forum

How does *Thermoanaerobacter ethanolicus* regulate its ethanol fermentation pathway?
Weilan Shao, Jiangsu University, China

Hybrid thermochemical and biochemical conversion of biomass for renewable fuels and products
Animesh Dutta, University of Guelph, Canada

PHOTO-LMEn: Biochar-based materials for the sustainable photoproduction of liquid and gaseous molecules to energy
Juan Matos Lale, University of Concepcion, Chile

Coffee Break @ Foyer

Track 3: Bioenergy Conversion

Session Introduction

Session Chair: Foster Agblevor, Utah State University, Logan UT, USA

Session Co-chair: Blake A Simmons, Joint BioEnergy Institute, USA

Title: Production of infra-structure ready biofules from olive mill wastewater sludge
Foster Agblevor, Utah State University, Logan UT, USA
Title: Synthesis and characterization of renewable ionic liquids for biomass conversion
Blake A Simmons, Joint BioEnergy Institute, USA
Title: Method for hot real-time sampling of Gasificaton Products
Marc Pomeory, National Renewable Energy Laboratory, USA
Title: "Milking" of cyanobacterial cells as a strategy for sustainable production of biofuels
Tatsuo Omata, Nagoya University, Japan
Title: Co-gasification of biomass and coal in fluidized bed gasifier
Pinakeswar Mahanta, Indian Institute of Technology Guwahati, Guwahati, India

Title: An eco-friendly enzyme mediated biomass pretreatment and hydrolysis towards bioethanol production
Rajiv Chandra Rajak, Indian Institute of Technology, India

Title: Valorization of pineapple leaf waste through integrated production of bioethanol and biomanure
Anjani Devi Chintagunta, Indian Institute of Technology, India

Lunch Break @ Restaurant

Track 6: Bioenergy Economy, Market, Policy and Social Acceptance
Track 9: Bioenergy Applications
Track 12: Biogas
Track 13: Biodiesel

Session Introduction

Session Chair: Sandra D Eksioglu, Clemson University, USA

Title: Bioenergy supply chains optimization: models and applications
Sandra D Eksioglu, Clemson University, USA
Title: Integrated bioenergy and food systems: Building sustainable options based on evidence
Sergio Luis Rivero Acha, Food and Agriculture Organization of the United Nations, Italy
Title: Food waste co-digestion with sewage sludge – Realising its potential in Malaysia
Kumaran Palanisamy, Universiti Tenaga Nasional, Malaysia
Title: Performance evaluation of large scale anaerobic digester using gas mixing for wholesale vegetable complex waste producing biogas and power
C Prem Ananth Surendran, Central Leather Research Institute–CSIR, India
Title: Bioenergy potential for power generation: Performance and emission of improvised biodiesel in microgasturbine
Kumaran Palanisamy, Universiti Tenaga Nasional, Malaysia

Coffee Break @ Foyer

Poster Presentation

BE-01	**Title: Substitution of maize in biogas production – Biochemical Methane Potential (BMP) of composites of maize and perennial energy crops**
	Christoph Emmerling, University of Trier, Germany
BE-02	**Title: Complete saccharification of cellulose through chemoenzymatic hydrolysis**
	In Taek Hwang, Biorefinery Research Group, Republic of Korea
BE-03	**Title: Alkaline pretreatment with recycled process wastewater using twin- screw system for bioethanol production**
	Young-Lok Cha, Bioenergy Crop Research Institute, KOREA
BE-04	**Title: Development of Upflow Multi-layer Anaerobic Reactor (UMAR) treating high-solids organic wastes and bacterial community analysis**
	Si-Kyung Cho, Dongguk University, Republic of Korea
BE-05	**Title: Can microalgae be alternative candidates for biodiesel production?**
	Khaled Nageh Mohammed Elsayed, Jacobs University Bremen, Germany
BE-06	**Title: Syncronous lignin degradation and enhanced reducing sugar production along with fermentation to bioethanol: A single step bioprocessing of mixed lignocellulosic feedstocks**
	Avanthi Althuri, Indian Institute of Technology, India
BE-07	**Title: Efficient production of butyric acid from lignocellulosic hydrolysate by *Clostridium sp. S1***
	Youngsoon Um, Korea Institute of Science and Technology, Republic of Korea
BE-08	**Title: Amino acids as a source of higher alcohols**
	Henry Oamen Patrick, The University of Manchester, United Kingdom

BE-09	**Title: Optimization of Isopropanol-Butanol (IB)-fermentation with *Clostridium sp. A1424***
	Youngsoon Um, Korea Institute of Science and Technology, Republic of Korea
BE-10	**Title: Biogas production potential from teak leaves (*Tectona grandis*)**
	Anongnart Wannapokin, Maejo University, Thailand
BE-11	**Title: Biodiesel production from sunflower oil using ZSM5 supported catalysts**
	Jane Estephane, University of Balamand, Lebanon
Award Ceremony	



Bookmark your dates

2nd World Bioenergy Congress & Expo

July 13-14, 2017 Madrid, Spain

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2nd International Congress and Expo on

Biofuels & Bioenergy

August 29-31, 2016 Sao Paulo, Brazil

Scientific Program



Registrations

Lorangerie II

conferenceseries.com

Opening Ceremony

Keynote Forum

Introduction

Title: Biodiesel and ethanol from modifi ed sugarcane
Vijay Singh, University of Illinois, USA

Title: Sink or Swim: Navigating the biofuels climate in an oil price recession
Jordan Godwin, Platts, USA

Group Photo and Networking & Refreshment Break

Title: On-site cellulase production with feeding spent sulfite liquor by *Penicellium oxalicum* for integrated biorefinery
Yinbo Qu, Shandong University, China

Sessions: Biomass | Algae Biofuels

Session Chair: Vijay Singh, University of Illinois, USA
Session Co-Chair: Jordan Godwin, Platts, USA

Session Introduction

Title: Lignocellulosic biomass fractionation by a deep eutectic solvent and a chelator mediated fenton system
L Orejuela Escobar, Virginia Tech, USA

Title: Hydrothermal liquefaction of eucalyptus: Effect of reaction conditions on product distribution
Carmina Reyes Plascencia, Universidad de la República, Uruguay

Title: Modification of biomass ash by aluminosilicates and other additives
David Nichols, University of Nottingham, UK

Lunch Break

Title: Fractionation of bio-oils from the pyrolysis of coconut fibers
Débora Tomasini, Universidade Federal do Rio Grande do Sul, Brazil

Title: Unravelling new strategies for butanol production in *Clostridium acetobutylicum* using *in silico* approaches
Carla Andreia Freixo Portela, Centro Tecnologico de Bioetanol, Brazil

Title: Explosibility and burning properties of pulverised rice husk and their dependence on particle size
Muhammad Azam Saeed, University of Leeds, UK

Session Chair: Daniel Bastos de Rezende, UFMG, Brazil
Session Co-Chair: Nestor Proenza Pérez, São Paulo State University, Brazil

Title: Characterization of sugarcane bagasse produced in the central region of São Paulo state in Brazil
Nestor Proenza Pérez, São Paulo State University, Brazil

Title: Production and chromatographic characterization of bio-oil from the rice husk pyrolysis
Eliane Lazzari, Universidade Federal do Rio Grande do Sul, Brazil

Title: Image analysis based ash fusion testing
Patrick James Dale, University of Nottingham, UK

Networking and Refreshment Break

Title: Hydrothermal carbonization of biomass to produce reduced-ash fuel
Robert J Stirling, University of Nottingham, UK

Title: Performance of CaO from different sources as a catalyst precursor in soybean oil transesterification: kinetics and leaching evaluation
Daniel Bastos de Rezende, UFMG, Brazil

Title: Towards an optimal formulation of alternative fuels for aeronautics – Thermal and oxidation stability and polymers compatibility

Arij Ben Amara, IFP Energies Nouvelles, France

Panel Discussion

Day 2 August 30, 2016

Lorangerie II

Keynote Forum

Title: Green technology for biodiesel: Production of methyl esters from macauba oil over egg shell and marble heterogeneous catalysts

Vânya Márcia Duarte Pasa, UFMG, Brazil

Title: A biorefinery approach to genetic manipulation of microalgae for biofuels production

Majid Hosseini, The University of Texas Rio Grande Valley, USA

Sessions: Biodiesel | Biogas | Bioethanol

Session Chair: Vânya Márcia Duarte Pasa, UFMG, Brazil

Session Co-Chair: Majid Hosseini, The University of Texas Rio Grande Valley, USA

Session Introduction

Title: Ethanolysis and methanolysis of soybean and macauba oils catalyzed by mixed oxide Ca-Al from hydrocalumite for biodiesel production

Camila Santana Carriço, UFMG, Brazil

Title: Producing hydrocarbons for green diesel and jet fuel formulation from palm kernel fat over Pd/C

Cristiane Almeida Scaldaferri, UFMG, Brazil

Networking and Refreshment Break

Title: Biodiesel and glycerol transesterification by layered double hydroxides in stirring packed-bedreactor

Jeffrey C S Wu, National Taiwan University, Taiwan

Title: Etherification of biodiesel-derived glycerol with isobutene as fuel additives

Du Zexue, Research Institute of Petroleum Processing, China

Title: Hydrotreatment of waste fats and oils with heterogeneous catalysis for tailor made production of biofuels

Martin Mittelbach, University of Graz, Austria

Title: Advances in carbohydrates production and hydrolysis of agroindustrial residues for fuel ethanol production

Pedro de Oliva Neto, São Paulo State University, Brazil

Title: Improvement of *Penicillum oxalicum* cellulase production via reconstruction of expression regulation network (RERN)

Xin Song, Shandong University, China

Title: Industrial production of bioethanol from sugarcane. Use of a large-scale non-sterile self-adaptive bioprocess for fermentation

Jaime Finguerut, CTC- Centro de Tecnologia Canavieira SA, Brazil

Lunch Break

Title: FTIR spectroscopy for the studies of catalysts and catalytic reaction mechanisms

Alexey Tsyganenko, St. Petersburg State University, Russia

Workshop

Title: Technical challenges of fermentative bio-hydrogen production from biomass

Majid Hosseini, The University of Texas Rio Grande Valley, USA

Poster Presentations

BFBE-010 **Title: Challenges for alternative fuels for aeronautics - CAER project**

Arij Ben Amara, Laurie Starck, IFP Energies Nouvelles, France

BFBE-011 **Title: Optimization of production of the coffee silver skin bio-oil using a fixed bed reactor and chemical characterization of the organic fraction by gc×gc/qms**

Allan dos Santos Polidoro, Universidade Federal do Rio Grande do Sul, Brazil

BFBE-012 **Title: Physicochemical properties of *Cnidoscolus rostratus* seed oil as feedstock for biodiesel production**

Benito Reyes Trejo, Universidad Autónoma Chapingo, México

BFBE-013 **Title: Recovery of nitrogen compounds from tobacco seeds bio-oil : Acid-extraction and gc×gc/qms analysis**
Bruna Onorevoli, Universidade Federal do Rio Grande do Sul, Brazil

BFBE-014 **Title: Pressurized solvent fractionation of bio-oil from spent coffee grounds: Characterization of compounds by gc×gc/tofms**
Carmem Tatiane Primaz, UNAM, Mexico

BFBE-015 **Title: *Cyanobacteria* isolated from Amazonian rivers growing in vinasse for biodiesel production**
Wallace Rafael de Souza, University of São Paulo, Brazil

Networking and Refreshment Break

Panel Discussion

Day 3 August 31, 2016

Lorangerie II

Keynote Forum

Title: Expanding wood chip exports via long-term international relationships: Trust and commitment relationships - developing enduring transactions
Arthur T House, President, Maine Woods Biomass Exports LLC, USA

Title: Integrated forest biorefi neries of the emerging bioeconomy
Lew Christopher, Biorefining Research Institute, Canada

Title: GC×GC/qMS in the analysis of bio-oils from pyrolysis of biomass
Claudia Alcaraz Zini, Universidade Federal do Rio Grande do Sul, Brazil

Networking and Refreshment Break

Sessions: Biodiesel | Biogas | Bioethanol

Session Chair: Claudia Alcaraz Zini, Universidade Federal do Rio Grande do Sul, Brazil
Session Co-Chair: Vânya Márcia Duarte Pasa, UFMG, Brazil

Session Introduction

Title: Alternative process of deacidification of Macauba oil (*Acrocomia aculeata*) aiming the biodiesel production
Daniel Bastos de Rezende, UFMG, Brazil

Title: Production of bioethanol and chemicals from oil palm empty fruit bunch by bisulfite process
Jian Zhao, Shandong University, China

Title: Biokerosene and green diesel from macauba oils via catalityc deoxygenation over Pd/C
Vânya Márcia Duarte Pasa, UFMG, Brazil

Title: Engineering on wild type diploid *Saccharomyces cerevisiae* for second generation bioethanol production
Xiaoming Bao, Shandong University, China

Sessions: Food V/S Fuels debate | Biorefineries | Bioenergy

Session Chair: Electo Eduardo Silva Lora, Federal University of Itajubá – UNIFEI, Brazil

Title: State-of-the-art of biomass gasification for electricity generation
Electo Eduardo Silva Lora, Federal University of Itajubá – UNIFEI, Brazil

Title: Cellulose-derived carbon aerogel as catalyst support Part I: Improving carbon yield and further resistance to oxidant atmosphere
Luis E Arteaga-Perez, University of Concepcion, Chile

Title: A systems approach mapping of primary forest residues supply chain for sustainable production of bioenergy in Malawi
Maxon L Chitawo, Stellenbosch University, South Africa

Lunch Break

Title: Some projects of institute of bionergy research (IPBEN) at UNESP guaratinguetá
José Luz Silveira, São Paulo State University, Brazil

Title: Biofuels: A solution to energy shortage in Pakistan
De Montfort University, United Kingdom

Title: Algae-based wastewater treatment for biofuel production: Processes, species and extraction methods
Hossein Ahmadzadeh, Ferdowsi University of Mashhad, Iran

Networking and Refreshment Break

Award & Closing ceremony

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Euro-Global Summit and Expo on

Biomass

August 08-09, 2016 Birmingham, UK

Scientific Program



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Day 1 August 08, 2016

Registrations

Hampton Suite

conferenceseries.com

Opening Ceremony

Keynote Forum

Introduction

Title: Biomass energy: A forest management perspective
Han-Sup Han, Humboldt State University, USA

Title: Desert cultivation and its contribution to the greening of the world
Bo G Eriksson, Swedish center for applied sociology AB, Sweden

Group Photo @ Hampton Suite

Networking and Refreshment Break

Sessions: Biomass Conversion Methods | Biomass Applications | Environmental Impact of Biomass | Biomass Market Analysis

Session Chair: Tatjana Stevanovic, Laval University, Canada

Session Introduction

Title: High purity lignin from new organosolv biorefinery
Tatjana Stevanovic, Laval University, Canada

Title: Cellulose-based films for electronics: Enzymatic triggered degradation for metal recovery
Álvaro Cruz-Izquierdo, University of Bath, United Kingdom

Title: Spatial planning pattern of biomass energy developing network in Heilongjiang province's village-town system
Yifei Zhang, Harbin Insititute of Technology, China

Title: Forests carbon input and changes in soil properties of the tropical rain forest Malaysia
Mande Kate Hosea, Kaduna State University, Nigeria

Lunch Break

Title: Bio-fertilizers from biomasses and wastes: High added value products for agriculture
Saida Tayibi, Mohammed VI Polytechnic University, Morocco

Sessions: Advanced Biofuels | Production of Biofuels

Session Chair: Markku Saloheimo, VTT Technical Research Centre of Finland Ltd., Finland

Session Introduction

Title: Development of the filamentous fungus *Trichoderma reesei* as an enzyme production cell factory for bio-refineries
Markku Saloheimo, VTT Technical Research Centre of Finland Ltd., Finland

Title: Heating biogas digester with solar energy: Research status and prospects
Huang Juanjuan, Lanzhou University of Technology, China

Title: Biofertilizers based on biomass: Efficiency and impact on the chemical and biological soil quality
Saloua Fertahi, Mohammed VI Polytechnic University, Morocco

Networking and Refreshment Break

Title: Catalytic upgrading of HTL bio-oil using bio-Pd/C catalyst
Joseph Wood, University of Birmingham, UK

Title: Characterization and gasification of biomass macaúba (*Acrocomia aculeata*)
Laura Vieira Maia de Sousa, University of Brasília, Brazil

Title: Potential of biomass gasifiers in India
Darshit S Upadhyay, Nirma University, India

Panel Discussion

Day 2 August 09, 2016

Hampton Suite

Keynote Forum

Title: The combination of hydrothermal carbonization and gasification for decentralized base load electrification

Elmar Steurer, Neu-Ulm University of Applied Sciences, Germany

Session: Biomass Energy Resources | Bioenergy Conversion Methods | Renewable Energy | Waste Biomass

Session Chair: Fabiano Ximenes, NSW Dept of Primary Industries, Australia

Session Introduction

Title: Linking forest biomass production with biomass users: A perspective from Australia

Fabiano Ximenes, NSW Dept of Primary Industries, Australia

Networking and Refreshment Break

Title: The feasibility to meeting the energy demands of single building with solar energy and biomass

Li Jinping, Lanzhou University of Technology, China

Title: Towards a green future: Bacterial biomass used for feed

Subir Kumar Nandy, UNIBIO A/S, Denmark

Title: Insect-based biorefinery for converting waste biomass into energy and protein

Longyu Zheng, Huazhong Agricultural University, China

Title: Valorization and treatment of wastewater sludge by biological and thermochemical processes: Production of bio-energy and bio-fertilizers

Doha E L Alami, Mohammed VI Polytechnic University, Morocco

Lunch Break

Title: Feasibility and performances of thermostatic biogas digester heated by solar thermal collector in Northwest of China

Xiaofei Zhen, Lanzhou University of Technology, China

Title: Economic comparison of two auxiliary heating methods for a cogeneration system of heat and power with biogas in Northwest China

Ganglin Cao, Lanzhou University of Technology, China

Workshop

Title: Quality assessment of biomass fast pyrolysis liquids

AV Bridgwater, Aston University, UK

Networking and Refreshment Break

Video Presentation

Title: Biomass cogeneration with green coconut husk: An analysis of efficiency energy solutions

Hermes Jose Loschi, State University of Campinas, Brazil

Title: Physicochemical and environmental characterization of pistachio shells

Nancy Quaranta, National Technological University, Argentina

Poster Presentations

EBMS-01 **Title: Solid phase extraction of Phorbol Esters (PEs) from pinion cake (*Jatropha curcas L.*) based on computationally-designed polymers in combination with deep eutectic solvents**

Maria. A. Sandoval-Riofrio, University of Leicester, UK

EBMS-02 **Title: Study comparing a hybrid system based on renewable energy and Diesel Generator (DG) for the production of energy**

Fazia Baghdadi, University of Mouloud Mammeri, Algeria

Panel Discussion

Awards & Closing ceremony

357th OMICS International Conference

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Scientific Program

Proceedings of

International Congress and Expo on

Biofuels & Bioenergy

August 25- 27, 2015 Valencia, Spain



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Day 1 August 25, 2015

Registrations

Hall - 4

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Opening Ceremony

Keynote Forum

Introduction

David Serrano
IMDEA Energy Institute, Spain

Anthony Bridgwater
Aston University, UK

Group Photo & Coffee Break

Philip Pienkos
NREL. USA

Track4 : Biomass

Session Chair: Blake Simmons, Joint Bioenergy Institute, USA
Session Co-Chairs: Edward A. Bayer, Weizmann Institute, Israel

Session Introduction

Title: Development of advanced biofuels and biomass conversion technologies at the Joint BioEnergy Institute
Blake Simmons, Joint Bioenergy Institute, USA
Title: Cellulosome-inspired multi-enzyme assemblies for conversion of cellulosic biomass into biofuels
Edward A. Bayer, Weizmann Institute, Israel
Title: Research strategies to generate economically viable biofuels from cellulosic biomass: Approaches and results from the BioEnergy Science Center (BESC)
Paul Gilna, BioEnergy Science Center, USA
Title: Catalytic pyrolysis of olive mill wastewater sludge to produce biofuels
Kamel Halouani, University of Sfax, Tunisia

Lunch Break

Title: First and second generation fuels: How to assess their potential for sustainable transportation?
Daniela Thrän, German Biomass Research Center, Germany
Title: Improved saccharification efficiency of alfalfa for bioethanol production: From phenotypic characterization to marker-assisted selection
Annick Bertrand, Soils and Crops Research and Development Centre, Canada
Title: Use of near infrared spectroscopy for the rapid low-cost analysis of a wide variety of lignocellulosic feed stocks
Daniel Hayes, Celignis Limited, Ireland
Title: Optimization models in support of biomass co-firing decisions in coal fired power plants
Sandra D Ekşioglu, Clemson University, USA
Title: Bio-Inspired heterogeneous catalyst for sustainable biofuel production
Dhanapati Deka, Tezpur University, India

Coffee Break

Title: Removal effect of alkali and alkaline earth metallic species and ash from biomass (palm empty fruit bunch) on pyrolytic characteristics to produce oil
Yong-Chil Seo, Yonsei University, South Korea
Title: Workers' exposure to biological and chemical agents in biomass processing at CHP plants
Juha Laitinen, Finnish Institute of Occupational Health, Finland

Title: Burning characteristics of carbonized chars from RDF, scrap tire, and their blends
Hanzade Haykiri Acma, Istanbul Technical University, Turkey
Title: From biomass to biofuels: Exploiting the cellulosome of *Clostridium clariflavum* for plant cell wall degradation
Lior Artizi, Weizmann Institute, Isreal
Title: Efficiency of biomass energy use – Approach for the determination of the efficiency of diverse bioenergy projects
Diana Pfeiffer, DBFZ Deutsches Biomasse for schungszentrum, Germany

Special Session: Food V/S Fuel

Title: Moving beyond the food V/S fuel Debate
Frank Rosillo-Calle, Imperial College, London
Title: Sustainability perspectives on the energy-water-food nexus, A new technical or political paradigm?
Rocio A Diaz-Chavez, Imperial College, London
Title: Bioethanol production: Corn vs lignocellulose biomass from olive oil industry and the potential role in ensuring food security
Sebastián Sánchez, Jaén University, Spain

Closing ceremony

Day 2 August 26, 2015

Hall - 4

Keynote Forum

Javier Brey
Spanish Hydrogen Association, Spain

Thomas Foust
NREL, USA

Session: Biofuels and Aviation Companies

Session Introduction

Title: Catalytic upgrading of biomass pyrolysis vapors
Mark Nimlos, NREL, USA
Title: The bioliq-process for synthetic chemicals and fuels production
Nicolaus Dahmen, Karlsruhe Institute of Technology, Germany
Title: Bioenergy Produced from Plant Waste
Siek-Ting Yong, Monash University, Malaysia

Coffee Break

Title: Production of biocrude oil by waste biomass catLiqprocess and characterization of oils
Parvana Aksoy, TUBITAK MRC Energy Institute,Turkey
Title: CatLiq- Catalytic hydrothermal liquefaction process from pilot scale to demo scale
Mehmet Unsal, TUBITAK MRC Energy Institute,Turkey

Track3: Biodiesel & Track7: Bioalcohols

Session chair: Adam Lee, Aston university, UK
Session co-chair: Antonio Meirelles, University of Campinas, Brazil

Title: Rational design of nanoengineered catalysts for biofuels production
Adam Lee, Aston university, UK
Title: Ethylic biodiesel: The bottlenecks for process optimization
Antonio Meirelles, University of Campinas, Brazil
Title: *In- situ* transformation of municipal sewage sludge into biodiesel
Rebeca Sánchez Vázquez, Rey Juan Carlos University, Spain
Title: Supply chain planning and design for biodiesel production via wastewater sludge
Sandra D Ekşioglu, Clemson University, USA

Lunch Break

Title: Heterogeneous acid and base catalysts for biodiesel production
Jinesh C. Manayil, Aston University, UK

Title: Ethanol fuel as portable power source in alkaline fuel cells
Shingjiang Jessie Lue, Chang Gung University, Taiwan
Title: Brazilian technology of fuel ethanol fermentation: New perspectives to improve the technology and diversification
Pedro de Oliva Neto, São Paulo State University, Brazil
Title: Evaluation of alkaline peroxide pretreatment of rice husk and its potential for Bioethanol production
R. A. Pandey, CSIR-National Environmental Engineering Research Institute India.
Title: Investigation of catalytic activity of thermally treated waste mussel shells for biodiesel production from jojoba oil
Mangesh. R. Avhadad, Norwegian University of Life Sciences, Norway

Coffee Break

Track2: Biogas

Session chair: Luis Puchades Rufino, Ludan Renewable Energy, Spain
Session co-chair: Serge R. Guiot, National Research Council Canada

Title: Maralfalfa grass: Synergies with biogas plants and potential as bioenergy and biorefinery crop
Luis Puchades Rufino, Ludan Renewable Energy, Spain
Title: Screening of a wide range of pre-treatments for improving the algal biomass solubilization and biogas potential
Serge R. Guiot, National Research Council, Canada
Title: Sustainable small-scale biogas production from agro-food waste for energy self-sufficiency (BIOGAS3 project)
Paz Gomez, AINIA Technology Centre, Spain
Title:Biochemical methane potential of *Ulva* spp. seaweed biorefinery residues
Silvia Tedesco, Dublin City University, Ireland
Title: Regenerative activated carbon for upgrading of bio-gas into bio-methane
Muhammad Farooq, Heriot-Watt University, UK
Title: Biogas, tool of energy saving for companies: to transform the expenditures in savings and profits
Sofía González Hergueta., Instituto Tecnológico de la Energía, Spain
Title: Comparision of scientific studies related to biomass conversion in Europe and Turkey
Hasan Merdun, Akdeniz University, Turkey

onwards	Poster Presentations
BF-001	**Title: Comparison of bio-oil upgrading techniques**
	Hasan Merdun, Akdeniz University, Turkey
BF-002	**Title: Microbial based biodiesel production using co-hydrolysis process**
	Javid Hussain, Federal University of Bahia, Brazil
BF-003	**Title: Studies of the catalytic properties of oxides doped with tungsten for the production of biodiesel ethyl**
	Bianca Passerine, São Paulo State University, Brazil
BF-004	**Title: Influence of lanthanides (La, Ce, Yb and Lu) in the catalytic properties of hydrotalcites and their oxides to ethyl biodiesel production**
	Jéssika de Souza Rossi, São Paulo State University, Brazil
BF-005	**Title: Oxides derived from hydrotalcites containing Cu+2 e Fe+3 in the production of ethyl biodiesel**
	Adonis Coelho, São Paulo State University, Brazil
BF-006	**Title: On the influence of Gallium in the mix oxides catalysts obtained from hydrotalcites with different M^{+2}/M^{+3} ratios for transesterification reactions**
	Marcelo Mancini, São Paulo State University, Brazil
BF-007	**Title: Kinetics of diesel / biodiesel fuels oxidation and evolution of oxidation products formed at different stages of oxidation**
	Kenza Bacha, Renault Technocentre, France
BF-008	**Title: Drivers of Brazilian biodiesel governance: power, subjectivities, risk and sustainability of gaucho production poles**
	Arnoldo Santos de Lima, Universidade de Brasília, Brazil

BF-009	**Title: Production of straw pellets for the biofuel industry – energy analysis**
	Greg Schoenau, University of Saskatchewan, Canada
BF-010	**Title: Hydrogen production by cyanobacteria *Anabaena* sp. (1448) in nitrogen-deprived cultures under different light intensities**
	Sarah Regina Vargas, University of São Paulo, Brazil
BF-011	**Title: Conceptual model in aspen plus for recovery of biocrude from hydrothermal algal biomass liquefaction**
	Taimur Akhtar, University of Agder, Norway
BF-012	**Title: 1-Butanolproduction from co2 by Synechococcus elaongatus in Turkey**
	Cansu Dogan, Dokuz Eylul University, Turkey
BF-013	**Title: *Chlorella* sp microalgae suspensions rheological behaviour analyzes in different culture times**
	Daniela Guimares, University of São Paulo, Brazil
BF-014	**Title: A method development for characterization of fischer tropsch liqids in GC**
	Parvana Aksoy, TUBITAK MRC Energy Institute, Turkey
BF-015	**Title: Risks to workers' safety and health in biomass processing**
	Sirpa Laitinen, Finnish Institute of Occupational Health, Finland
BF-016	**Title: Anaerobic digestion of microalgae for gas production and nutrient recycling: Towards a sustainable closed loop**
	Lina Maria Gonzalez, University of Queensland, Australia
BF-017	**Title: Energy balance of oil recovery process using liquefied dimethyl ether**
	Kiyoshi Sakuragi, Central Research Institute of Electric Power Industry, Japan
BF-018	**Title: Direct supercritical methanol transesterification of lyophilized unwashed marine microalgae nannochloropsis gaditana to biodiesel**
	Joaquin Quesada-Medina, University of Murcia, Spain
BF-019	**Title: Biogas from agro-industrial residues. Combustion products evaluation by means of the thermodynamic equilibrium analysis approach**
	Agata Pistis, Sardegna Ricerche, Italy
BF-020	**Title: Simulation of the gasification process of a characteristic forest biomass of northern Sardinia through the thermodynamic equilibrium analysis: The case study of the Pinus pinaster**
	Claudio Tugulu, University of Cagliari, Italy
BF-021	**Title: Biodiesel production from microalgae grown on wastewater**
	Mirit Kolet , Ariel University, Israel
BF-022	**Title: Production of biodiesel from animal fat using supercritical ethanol**
	David Bolonio, Universidad Politécnica de Madrid, Spain
BF-023	**Title: Estimation of continuous alkali pretreated sweet sorghum bagasse using single screw reactor for bioethanol production**
	Young-Lok Cha, Bioenergy Crop Research Institute, South Korea
BF-024	**Title: Subcritical and supercritical water gasification of arabinose as a model compound for biomass**
	Dilek Selvi Gokkaya, Ege University, Turkey
BF-025	**Title: Construction of novel malate sensing recombinant *Escherichia coli* by bacterial two component system engineering**
	Soonho Hong , University of Ulsan, South Korea
BF-026	**Title: Metabolic engineering of *Escherichia coli* for the biosynthesis of aromatic building-blocks**
	Shuhei Noda, RIKEN Center for Sustainable Resource Science, Japan
BF-027	**Title: Direct supercritical transesterification of wet unwashed pastes from green microalgae (*Nannochloropsis gaditana, Chlorella sp. and Nannochloris sp.*) for biodiesel production**
	Souhir Jazzar, University of Carthage, Tunisia

BF-028	**Title: Regeneration of *Miscanthus* sp. for agrobacterium-mediated transformation purposes. Preliminary studies.**
	Karolina Malec, Polish Academy of Sciences, Poland
BF-029	**Title: Exergy analysis of thermochemical and biochemical pathways for bioethanol production**
	Pablo Silva Ortiz, University of São Paulo, Brazil
BF-030	**Title: Study of the fermentation process for the n-butanol production from lignocellulosic sugars**
	Ana Maria Zetty Arenas, University of Campinas, Brazil
BF-031	**Title: Alkaline pretreatment scale up study aiming second-generation ethanol production**
	Simone Coelho Nakanishi, University of São Paulo, Brazil
BF-032	**Title: Introduction of small-scale biogas digesters for households: Case study of the Maluti-a-Phofung municipality, South Africa**
	Mokhele Moeletsi, Institute for Soil, Climate and Water, South Africa
Closing Ceremony	

Day 3 August 27, 2015
Hall 4
Track1: Algae Fuels
Session chair: Philip Pienkos, NREL, USA
Title: The Algae Testbed Public Private Partnership (ATP3): facilitating the commercialization of algal technologies **Philip Pienkos,** NREL, USA **Title: Biofuels production from wastewater treatment plants** **Vincenzo Piemonte,** Università Campus Bio-Medico, Italy **Title: An outlook on microalgae production chains** **Dorinde Kleinegris,** Wageningen UR - Food & Biobased Research, Netherlands **Title: From wastewater to bioenergy: Nutrient and energy recovery with algae treatment** **Arbib, Zouhayr,** FCC Aqualia, Spain **Title: Effect of aeration flow rate on the growth of microalgae as a biofuel feedstock and wastewater treatment** **Harrison Onome Tighiri,** Cyprus International University, Turkey
Coffee Break
Session on Bio-oils Upgrading Into Advanced Biofuels & Track6: Biorefinaries
Session chair: David Serrano, IMDEA Energy Institute, Spain **Session co-chair: Andrea Kruse,** University Hohenheim, Germany
Opening Speech **David Serrano,** IMDEA Energy Institute, Spain
Session Introduction
Title: Hydrothermal liquefaction and carbonization for fuels and materials **Andrea Kruse,** University Hohenheim, Germany **Title: Optimization of bio-oil yields in fast biomass pyrolysis by demineralization of low quality biomass feedstocks** **Angelos Lappas ,** Centre for Research and Technology Hellas, Greece **Title: Catalytic deoxygenation – Industrial applications and catalysts** **David Kubička,** UniCRE-RENTECH ,Czech Republic
Lunch Break
Title: *In-situ* upgrading of eucalyptus woodchips fast-pyrolysis bio-oil using metal oxide/h-ZSM-5 catalysts **Patricia Pizarro,** IMDEA Energy Institute, Spain **Title: Hydrodeoxygenation of bio-oil model compounds over supported nickel Catalysts** **T.M. Sankaranarayanan,** IMDEA Energy Institute, Spain **Title: Catalytic cracking of stearic acid over Pd supported over nanocrysralline and hierarchical** **Marta Arroyo,** Rey Juan Carlos University, Spain
Title: Design of base catalysts for the catalytic deoxygenation of bio-oil by aldol condensation **Tobias C. Keller,** Institute for Chemical and Bioengineering, Switzerland

Title: The development of a wheat straw based biorefinery for bioethanol fermentation
Chenyu Du, University of Huddersfield, UK
Title: The development of a bio refining strategy to convert municipal solid waste into bioethanol
Jwan Abdullah, University of Nottingham, UK

Coffee Break

Title: Itaconic acid production from sorghum bran-a biorefining approach
Amina Ahmed, University of Nottingham, UK
Title: Biorefinery annexed to typical South African sugar mill, Part 1: Flowsheet development and simulation
M. Ali Mandegari, University of Stellenbosch, South Africa
Title: Biorefinery annexed to South African sugar mill, Part II; Energy sufficiency analysis
Somayeh Farzad, University of Stellenbosch, South Africa

Closing Ceremony

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Biofuels & Bioenergy

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