EuroSciCon

Biofuels 2018

March 29-30

Edinburgh, Scotland



Day 1, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Biomass and Challenges**	Talks On: **Biorefineries**	Talks On: **Biogas Technologies**
	Talks On: **Biogas Production**	Talks On: **Bioethanol**	Talks On: **Industrial Waste Biomass**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Biomass and Electricity**	Panel Over: **Petroleum Refinery**	Panel Over: **Waste Biomass to Energy**
	Workshop On: **Prediction Power Generation**	Workshop On: **Bio-oil Production**	Workshop On: **Manure Derived Biogas**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Bioenergy**	Talks On: **Bioalcohol from Algae**	Talks On: **Biorefinery Products**
	Lectures on: **Renewable Energy**	Lectures on: **Bioethanol as Automobile Fuel**	Lectures on: **Bioethanol from Plant Sources**
06:00 PM	Session On: **Bioenergy Applications**	Session On: **Next Generation Renewable Energy**	Session On: **Bioethanol from Vegetable Waste**
	NETWORKING	**NETWORKING**	**NETWORKING**

Day 2, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Biodiesel**	Talks On: **Advanced Biofuels**	Talks On: **Bioeconomy**
	Talks On: **Aviation Biofuels**	Talks On: **Algal Biofuels**	Talks On: **Food vs Fuel Debate**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Algal Biodiesel**	Panel Over: **Second Generation Biofuels**	Panel Over: **Industrial Bioeconomy**
	Workshop On: **Applications of Biodiesel**	Workshop On: **Next Generation Feedstock**	Workshop On: **Biofuel Market**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Biobased Jet Fuels**	Talks On: **Green Diesel from Algae**	Talks On: **Biofuels Impact on Food Security**
	Lectures on: **New Sources for Aviation Biofuels**	Lectures on: **Jet fuel from Algae**	Lectures on: **Biofuel Policies**
06:00 PM	Session On: **Applications of Aviation Biofuels**	Session On: **Hydrogen Fuel Cells**	Session On: **Second Generation Biofuels**
	NETWORKING	**NETWORKING**	**NETWORKING**

Past Affiliates

Malgorzata Slupska USA	**Henrik V. Scheller** USA	**Antonio Padula** Brazil
Donald L. Rockwood USA	**Ange NZIHOU** France	**Shingjiang Jessie Lue** Taiwan
Jim Grey Canada	**Jason Bootsma** USA	**Leandro Soter de Mariz Miranda** Brazil
Majid Hosseini USA	**Francisco García Labiano** Spain	**james Houser** USA
Marc A. Rosen Canada	**Koji Hashimoto** Japan	**Anh Phan** UK
PRABIR BASU Canada	**Daniela Thrän** Germany	**Sally Krigstin** Canada
Charles Cai USA	**Wei-Hsin Chen** Taiwan	**Wensheng Qin** Canada
Rajai H. Atalla USA	**Brooks Henningsen** USA	**Niclas Scott Bentsen** Denmark
Animesh Dutta Canada	**Alberto Abad Secades** Spain	**Kesen Ma** Canada
Timothy A. Volk USA	**Weilan Shao** China	**Keith E. Taylor** Canada

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Gallary Bioenergy 2015













City Attractions



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Scientific Program

5th World Bioenergy Congress and Expo

June 29-30, 2017 Madrid, Spain



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Day 1 June 29, 2017

Registrations

Leon

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Opening Ceremony

Keynote Forum

Introduction

Title: Sustainable production of bioenergy and value-added products for the growing low-cost bioresource economy

Lew P. Christopher, Lakehead University, Canada

Title: Biocarbon, biomethene, and biofertilizer from corn residue: A circular economy concept

Animesh Dutta, Bio-renewable Innovation Lab, Canada

Title: Advanced molecular techniques to improve the activity and production of lignocellulases

Weilan Shao, Jiangsu University, China

Title: An overview of Biofuel production in India: Scope and future goal

Rintu Banerjee, IIT Kharagpur, India

Group Photo

Networking & Refreshments Break

Sessions: Biogas | Bioenergy Applications

Session Chair: Animesh Dutta, Bio-renewable Innovation Lab, Canada

Session Co-chair: Jana Zabranska, University of Chemistry and Technology, Czech Republic

Session Introduction

Title: Bioconversion of carbon dioxide in biogas to methane

Jana Zabranska, University of Chemistry and Technology, Czech Republic

Title: Green economic development in the city of Johannesburg: production of biogas to fuel city buses

William H. L Stafford, Council for Scientific and Industrial Research (CSIR), South Africa

Title: Biogas desulfurization by autotrophic denitrification – temperature dependence

Dana Pokorna, University of Chemistry and Technology, Czech Republic

Title: Deployment of a bio-economic 'hub' in rural Thailand by means of a centralized biogas plant

Rikke Lybaek, University of Roskilde, Denmark

Title: Energy and economical evaluation of a biogas generation plant under the Feed-in Tariff scheme in Japan

Shiho Ishikawa, Hokkaido University, JAPAN

Title:Utilization of palm oil processing waste (palm oil mill effluent/POME) as a biogas raw material in Indonesia: Economic and institution approach

Endro Gunawan, Indonesian Center for Agricultural Socio Economic and Policy Studies, Indonesia

Title: Evaluation of mechanical comminution as substrate pretreatment in biogas production

Diana Andrade, Bavarian State Research Center for Agriculture, Germany

Title: Environmental impact and technical requirements of flexible energy supply from biogas-driven cogeneration units

Simon Juan Tappen, Bavarian State Research Center for Agriculture, Germany

Lunch Break

Title: A model-based analysis of future electricity production from biogas in Germany

David Balussou, Karlsruhe Institute of Technology, Germany

Sessions: Renewable Energy | Bioenergy Transition | Processes for Bioenergy | Biodiesel

Session Chair: Patricia J Harvey, University of Greenwich, UK

Session Co-chair: David M. Babson, U.S. Department of Energy Bioenergy Technologies Office, USA

Session Introduction

Title: Extracting value from non-potable water using halophilic algae: A water-food-energy nexus approach for delivering bioenergy
Patricia J Harvey, University of Greenwich, UK
Title: Enabling next generation Biofuels and Bioproducts for the emerging bioeconomy
David M. Babson, U.S. Department of Energy, Bioenergy Technologies Office, USA
Title: Traditional or modern Bioenergy: Which developing countries can mostly benefit?
Luís Cortez, State University of Campinas - UNICAMP, Brazil
Title: Business models for bioenergy villages-A compilation of main components of business models as part of the BIOVILL project
Konstanze Stein, KEA Climate Protection and Energy Agency, Germany

Networking & Refreshments Break

Title: Is the Open Data maturity of the Spanish energy sector sufficiently high to enable the successful deployment of a circular economy strategy?
Elena Perez-Minana, University of Surrey, Spain
Title: Process analysis of hydrothermal liquefaction of Algae
Souman Rudra, University of Agder, Norway
Title: Ionic liquid based artificial cellulase type catalysts for cellulosic ethanol process
Lucia Doyle, ttz Bremerhaven, Germany
Title: Experimental and theoretical analysis of CO_2 adsorption process for optimization of carbon based (Biochar) adsorbent
Hanieh Bamdad, Memorial University, Canada
Title: Production of biodiesel by Jatropha Oil: A substitute fuel of diesel engine
Arvind K Tiwari, NIET, India
Title: A lean startup strategy to overcome the entrepreneurial challenges in Bioenergy sector: in context of National Mission for a 'Green India"
P Pachauri, NIET, India

Panel Discussion

Day 2 June 30, 2017

Leon

Keynote Forum

Title: Converting waste products into fuel and useful chemicals
Mohammed Farid, University of Auckland, New Zealand
Title: Comparison of different options for converting food waste to biogas for energy uses using life cycle assessment
Irene M C LO, The Hong Kong University of Science and Technology, Hong Kong
Title: Development of portable ultra-small biomass gasification and power generation system
Kunio Yoshikawa, Tokyo Institute of Technology, Japan
Title: Boosting bioenergy by coordinating the activities of chloroplasts and mitochondria
Boon Leong Lim, University of Hong Kong, China

Sessions: Biofuels | Bioethanol | Biomass Technology

Session Chair:Markus Brautsch, University of Birmingham, Germany
Session Co-chair: Raphael Lechner, Technical University Amberg-Weiden, Germany

Session Introduction

Title: Duel fuel technology in Biomass CHP-Systems
Markus Brautsch, University of Birmingham, Germany

Networking & Refreshments Break

Title: Hydraulic Injection Characteristics of different Biofuels
Raphael Lechner, Technical University Amberg-Weiden, Germany
Title: Market view for Bioethanol: A global perspective
Alberto Carmona Bosch, Abengoa Bioenergy, Spain

Title: Fatty acid methyl esters (FAMEs) obtained from rare seeds of Tunisia: *Ibicella lutea, Peganum harmala, Smyrnium olusatrum, Onopordum nervosum and Solanum elaeagnifolium*
David Bolonio, Universidad Politécnica de Madrid, Spain
Title: A challenging attempt towards utilization of non-edible lignocellulosics for cost-effective biobutanol production
Sanjeev Kumar, Indian Institute of Technology, India

Poster Presentations

Poster Judges

Mohammed Farid, University of Auckland, New Zealand
Kunio Yoshikawa, Tokyo Institute of Technology, Japan

BE-01	**Title: Performance of Nickel supported catalysts in steam reforming of toluene as a tar model compound for use in hot-syngas clean-up** **Abolghasem Shahbazi,** NSF-CREST Center for Bioenergy, USA
BE-02	**Title: Modeling biomass behavior during combustion: A thermochemical approach to predict slagging. Effect of the S/CL molar ratio** **Ibai Funcia,** National Renewable Energy Centre (CENER), Spain
BE-03	**Title: Microwaved-assisted deoxydehydration of glycerol to allyl alcohol** **Yanet Rodriguez Herrero,** University of Alberta, Canada
BE-04	**Title: Hemicellulosic bioethanol production from Paulownia wood** **Elena Domínguez,** University of Vigo, Spain
BE-05	**Title: Optimization of fast growing biomass fractionation processes** **Pablo G. del Río,** University of Vigo, Spain
BE-06	**Title: Specific effect of explosive decompression during steam explosion pretreatment of wheat straw** **Charlotte Loustau Cazalet,** IFP Energies Nouvelles, France
BE-07	**Title: Evaluation of a willow system for wastewater treatment and energy crop production in Norwegian climate** **Verónica Vela Vela,** Polytechnic University of Valencia, Spain
BE-08	**Title: Effect of harvest age on bioethanol production from short rotation woody crops** **Ji Young Jung,** Gyeongsang National University, South Korea
BE-09	**Title: Physical and chemical properties and growing media applications of pretreated wood chip** **Si Young Ha,** Gyeongsang National University, South Korea
BE-10	**Title: Utilization of steam-exploded *Quercus mongolica* and micro-organism materials as components in soilless growth media for herbaceous and woody plants** **Jai Hyun Park,** Gyeongsang National University, South Korea
BE-11	**Title: Enzymatic biomass deconstruction: An attempt towards selective lignin degradation for improved reducing sugar release** **Rajiv Chandra Rajak,** Indian Institute of Technology, India
BE-12	**Title: Lipid accumulation in *Oleaginous Aspergillus sp.* utilizing Glycerol – A byproduct of biodiesel biorefinery** **G Lohit K Srinivas,** Indian Institute of Technology, India
BE-13	**Title: Improved biodiesel production from *Chlorella minutissima and Aspergillus awamori* through phyco-myco co-cultivation** **Archana Dash,** Indian Institute of Technology, India
BE-14	**Title: Bioethanol production through simultaneous saccharification and fermentation from citrus fruit waste** **Debajyoti Kundu,** Indian Institute of Technology, India

BE-15 **Title: Enhanced ethanol production from sugarcane tops via co-fermentation of pentoses and hexoses**

Knawang Chhunji Sherpa, Indian Institute of Technology, India

BE-16 **Title: Simultaneous saccharification and fermentation of waste broken rice for bioethanol production**

Mohan Das, Indian Institute of Technology, India

Lunch Break

Sessions: Biomass feed stocks for renewable energy generation | Biomass | Bioenergy Conversion

Session Chair: Richard Sayre, Los Alamos National Laboratory, USA

Session Co-chair: Ralph-Uwe Dietrich, German Aerospace Center (DLR e.V.), Germany

Session Introduction

Title: Improving photosynthetic efficiency and biomass yield in plants and algae

Richard Sayre, Los Alamos National Laboratory, USA

Title: Alternative fuels from Biomass and Power (PBtL) – A case study on process options, technical potentials, fuel costs and ecological performance

Ralph-Uwe Dietrich, German Aerospace Center (DLR e.V.), Germany

Title: Effects of variable feedstock particle size on Birchwood gasification: A CFD approach

Souman Rudra, University of Agder, Norway

Title: Theoretical elucidation of the molecular behaviour of levoglucosan during biomass pyrolysis

Xiaolei Zhang, Queen's University Belfast, UK

Title: Quality of organic amendment obtained from organic waste fraction in old landfill

Khalid Fares, Cadi Ayyad University, Morocco

Networking & Refreshments Break

Title: Alkaline pretreatment and saccharification of woody biomass: Castor Stalk

Santosh Sankh, Reliance Technology Group, India

Title: Methane production through anaerobic digestion of various energy crops irrigated with wastewaters

Sonia Shilpi, University of Newcastle, Australia

Title: Prospects and barriers for the sustainable use of second generation biomass from the palm oil industry

Bobbo Nfor Tansi, BTU Cottbus, Germany

Panel Discussion

Thanks giving & Closing Ceremony

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2nd International Congress and Expo on

Biofuels & Bioenergy

August 29-31, 2016 Sao Paulo, Brazil

Scientific Program



Registrations

Lorangerie II

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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

357th OMICS International Conference

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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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