EuroSciCon

Biofuels 2018

March 29-30

Edinburgh, Scotland



http://biofuels.euroscicon.com/

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
Lignocellulosic Research Director POET, USA

Henrik V. Scheller
Senior Researcher,USA

Antonio Padula
Universidade Federal do Rio UFRGS, Brazil

Donald L. Rockwood
president Florida FGT, USA

Ange NZIHOU
Director RAPSODEE Research Centre, France

Shingjiang Jessie Lue
Chang Gung University,Taiwan

Jim Grey
Chair of Renewable Industries,Canada

Jason Bootsma
Director of Technology,USA

Leandro Soter de Mariz Miranda
Universidade Federal do Rio, Brazil

Majid Hosseini
The University of Texas, USA

Francisco García Labiano
ICB-CSIC,Spain

james Houser
Appalachian State University, USA

Marc A. Rosen
University of Ontario, Canada

Koji Hashimoto
Tohoku University,Japan

Anh Phan
Newcastle university, UK

PRABIR BASU
President & CEO Greenfield Incorporated,Canada

Daniela Thrän
Helmholtz Centre, Germany

Charles Cai
CTO, MG Fuels,USA

Wei-Hsin Chen
National Cheng Kung University,Taiwan

Rajai H. Atalla
Chairman and CTO Cellulose Sciences International,USA

Brooks Henningsen
Mascoma LLC, USA

Animesh Dutta
Director Bio-Renewable Innovation Lab,Canada

Alberto Abad Secades
ICB-CSIC, Spain

Weilan Shao
Jiangsu University, China

Glimpses of Biofuels Conferences







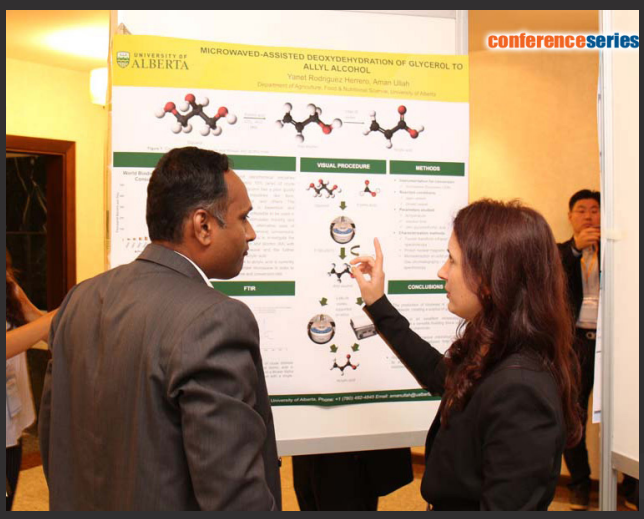






Glimpses of Biofuels Conferences













City Attractions







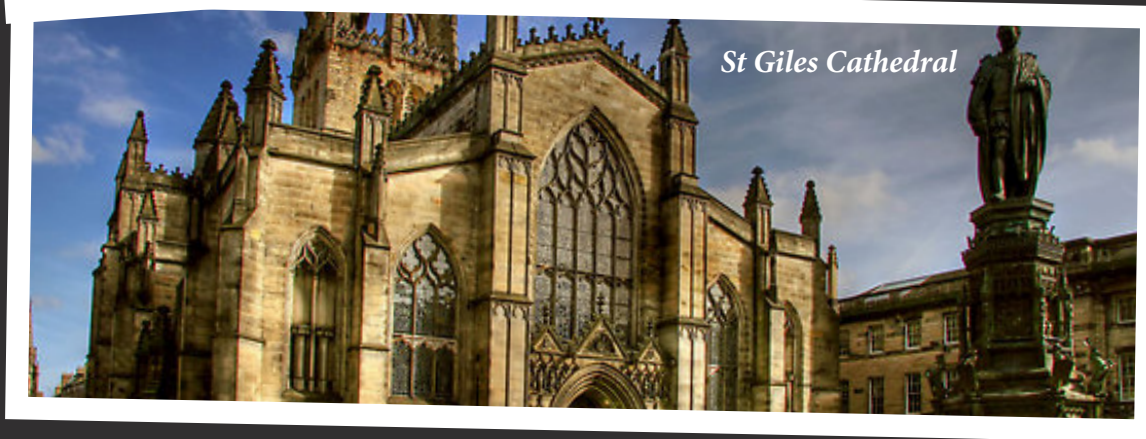


City Attractions









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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 2August 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 3August 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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Proceedings of

International Congress and Expo on

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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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