

**Joint Event** 

12th World Congresson

# Biofuels and Bioenergy

8

13th Global Summit and Expoon

## **Biomass and Bioenergy**

September 04-06, 2018 | Zurich, Switzerland



**UK: Conference Series LLC Ltd.** 

47 Churchfield Road, London, W3 6AY

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### DAY-1

**September 04, 2018** 

Meeting Hall: Brussels

08:30-09:00 Registrations

## Opening Ceremony . . . . . .

09:00-09:30

#### **Keynote Forum**

09:30-09:35 Introduction

09:35-10:15

Title: Recent advances in catalytic production of biobased furan derivatives
Christophe Len, Université de Compiègne, France

#### **Group Photo**

#### Networking & Refreshment 10:15-10:35 @ Europa Foyer

10:35-11:15

Title: Biomass valorization by means of catalytical and biological processes

Magda Constantí, University Rovira I Virgili, Spain

Title: Development of efficient bioprocesses for improved bioethanol production from a mixture of

11:15-11:55 food wastes

Vinay Sharma, Banasthali University, India

Sessions: Biomass Conversion Methods | Biomass Applications | Biomass Energy Resources | Biomass Power & Thermal

Chair: Magda Constantí, University Rovira I Virgili, Spain Co-Chair: Ferruccio Pittaluga, University of Genoa, DIME, Italy

Title: Biomass Gasification Technologies for Biochar Production and Energy Generation

Ferruccio Pittaluga, University of Genoa, DIME, Italy

Title: Nanocatalysts for oxygen removal from biomass derived biofuel

Antonia Infantes-Molina, Universidad de Málaga, Spain

Title: Bioethanol Production from Perennial Grasses
12:35-12:55

Satyawati Sharma, CRDT, IIT New Delhi, India

Lunch Break 12:55-13:40 @ La Place Al

Title: Antimicrobial activity of microalgal strains against pathogenic bacteria and fungal Strains

Sitwat Aman, The University of Lahore, Pakistan

Title: Biomass Gasification: Sustainable technology for waste to energy

Sandeep Kumar, Indian Institute of Technology (IIT) Bombay, India

15:40-16:00

#### Sessions: Production of Biofuels | Advanced Biofuels & Biochemicals

Chair: Jinying Yan, KTH - Royal Institute of Technology, Sweden

Co-Chair: Anushree Malik, Centre for Rural Development and Technology, IIT Delhi, India

resources and costs in Mediterranean Countries Eva Sevillano Marco, CEDER-CIEMAT, Spain

Peyrot Marine, CEA LITEN, Grenoble, France

Title: Sustainable Water-Energy-Environment Nexus for Thermal Bioenergy Conversion
Jinying Yan, KTH - Royal Institute of Technology, Sweden

Title: Algal-fungal interactions for dewatering and pretreatment of microalgal biomass targeting improved biofuel production
Anushree Malik, Centre for Rural Development and Technology, IIT Delhi, India

Title: Microalgae cultivation in continuous reactor using mixotrophic anaerobic effluent: Effect of dilution rate on biomass productivity and tertiary treatment
SERVIO CASSINI, Dept. Environmental Engineering UFES, Brazil

Title: Modeling of slow pyrolysis of various biomasses in a rotary kiln using TGA data Ramiar Sadegh-Vaziri, KTH Royal Institute of Technology, Sweden

Title: BIORAISE: a GIS tool for the evaluation of agricultural and forestry available biomass

Networking & Refreshment 16:00-16:20 @ Europa Foyer

Title: Numerical study of the natural -draft flow and heat transfer in a biomass plancha-type 16:20-16:40 cookstove Alberto Beltrán, Universidad Nacional Autónoma de México, México Title: Ultra thin membrane made by Atomic layer deposition for CO, separation 16:40-17:00 Ying-Bing Jiang, Univ. of New Mexico, USA Title: Advanced liquid biofuels from residue biomass by thermo-catalytic reforming 17:00-17:20 Andreas Hornung, Fraunhofer Institute for Environmental, Safety, and Energy Technology (UMSICHT), Germany Title: Chemical Characterization of Bio-oils from Cellulose, Hemicellulose and Lignin Pyrolysis 17:20-17:40 Martin Stas, University of Chemistry and Technology Prague, Czech Republic Title: Fast entrained bio-oil production in an entrained flow pilot reaction 17:40-18:00

## DAY-2

September 05, 2018
Meeting Hall: Brussels

09:00-09:05 Introduction

#### **Keynote Forum**

09:05-09:50

Title: World markets for conventional and advanced biofuels over the next five years
Abhishek Asthana, Hallam Energy, Sheffield Hallam University, United Kingdom

Networking & Refreshment 09:50-10:10 @ Europa Foyer

10:10-10:50 Title: Energy and Materials from Biomass Pyrolysis
Gerrit Brem, University of Twente, The Netherlands

Sessions: Bioenergy | Renewable Energy

Chair: Layla Salih Al-Omran, University of Basrah, Iraq

Co-Chair: Harri Ali-Löytty, Tampere University of Technology, Finland

Title: The most important factors influencing human exposure assessments of Brominated Flame
:10 Petardants (BEPs) via indear dust indear

10:50-11:10 Retardants (BFRs) via indoor dustingestion Layla Salih Al-Omran, University of Basrah, Iraq

Title: Efficient Use of Sugarcane Bioenergy for Sustainability of Indian Sugar Industry

Narendra Mohan, National Sugar Institute, Kanpur, India

Title: Operando Investigations of Electrochemical Interfaces for Solar Fuel Production by Ambient-

11:30-11:50 Pressure Photoelectron Spectroscopy

Harri Ali-Löytty, Tampere University of Technology, Finland

Title: Moroccan energy transition: development of renewable energies and energy efficiency

Touria Barradi, Ecole Centrale de Casablanca, Morocco

Title: Producing energy through gases from biomass

Aude Bertrandias, Air Liquide Centre de Recherche Paris-Saclay, France

Title: Estimated production of electrical energy for the controlled landfill in Fez (Morocco) by the

12:30-12:50 US EPA Land-GEM model

Naimi Youssef, University of Hassan II Casablanca, Morocco

Lunch Break 12:50- 13:35 @ La Place AB

#### Poster Presentations 13:35-14:20

Poster Judge: Kurt D Thelen, Michigan State University, USA

Title: Capillary electrophoresis in the analysis of volatile fatty acids, ammonium and nutrients

BM 01 from mesofilic anaerobic digestion samples

Jasmiina Haverinen, University of Oulu, Kajaani University, Finland

Title: Development of a Novel Liquid-Inerted Microwave Pyrolysis System

Benjamin Shepherd, University of Nottingham, UK

BM 03	Deivison Silveira Santos de Jesus, Automation and Control Engineer – FAMEC, Brazil
BM 04	Title: Chitin and shrimp shells liquefaction and their use in blend membranes
BM 05	Wen-Rong Xu, Hainan University, China  Title: Sustainable Water-Energy-Environment Nexus for Thermal Bioenergy Conversion
	<b>Zhi Zou,</b> KTH - Royal Institute of Technology, Sweden <b>Title:</b> Pyrolysis of aerobic sewage sludge in fluidized bed reactor between 700 & 830°C:
BM 06	Comparison with woody wastes.
BF 01	Sid Ahmed Kessas, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France Title: Renewable resource-based material synthesized from lignocellulosic biomass
	Chikakao Asada, Tokushima University, JAPAN  Title: Improved Production of Cellulosic Bioethanol using Miscanthus Hydrolysate by Engineered
BF 02	Saccharomyces cerevisiae
BF 03	Young-Lok Cha, National Institute of Crop Science, Republic of KOREA  Title: In field integration of winter cereals with corn stover to improve biomass yield and quality  Kurt D Thelen, Michigan State University, USA
BF 04	Title: Gasification characteristics of various biomass on thermal decomposition and steam reforming
	Yuya Sakurai, Kogakuin University, Japan
Sessions: Pyr	rolyis  Bioeconomy
Chair: Stephe	n Mitchual, University of Education, Ghana
	Title: Fuel characteristics of binder free briquettes made at room temperature fromblends of Ceiba
14:20-14:40	pentandra and oil palm mesocarp fibre
	Stephen J Mitchual, University of Education, Ghana
14:40-15:00	Title: I'mgreenTMPE: paving the way for sustainable plastics.
	Martin Clemesha, BRASKEM, Netherlands  Title: Waste-derived carbon: structure, properties and applications
15:00-15:20	Swati Sharma, Karlsruhe Institute of Technology, Germany
	Title: How to meet the needs of bees? - Diversification of industrial crops cultivation for a more
15:20-15:40	environmentally benign bioeconomy
15:40-16:00	Moritz Von Cossel, Universität Hohenheim, Germany
	Title: Scalable concepts for microwave pyrolysis  John Robinson, University of Nottingham, UK
	Networking & Refreshment 16:00-16:20 @ Europa Foyer
	YRF: L-Lactic acid production from cellulose and hemicellulose extract of Walnut Shell through
16:20-16:40	microwave-assisted autohydrolysis followed by microbial fermentation Richard Ahorsu, University Rovira I Virgili, Spain
16:40-17:00	YRF: Tuning biomass pyrolysis for polymer precursors John Ryan, University of Nottingham, UK
17:00-17:20	YRF: Title: Understanding the potential of energy crops in heavy metals contaminated soils  Berta Cumbane, DCTB/METRICS/FCTNOVA, Portugal

Title: Design Automation of the Manufacturing Process of a Mini – Biodiesel Plant



## DAY-3

September 06, 2018
Meeting Hall: Brussels

10:00-10:05 Introduction

Sessions: Bioalchol and Bioethanol | Biorefineries | Biodiesel

Chair: Julio Sacramento-Rivero, Universidad Autonoma de Yucatan, Mexico	
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	Title: Mechanochemistry for a smart and sustainable biodiesel production under heterogeneous
10:05-10:25	catalysis
	Irene Malpartida Garcia, University of Malaga, Spain
	Title: Ex-ante and ex-post sustainability evaluation of a biorefinery: lessons learned from jatropha
10:25-10:45	biodiesel in Yucatan, Mexico
	Julio Sacramento-Rivero, Universidad Autonoma de Yucatan, Mexico
10:45-11:05	Title: Fundamental Investigations of Electrocatalyzed Transformations of Organic Compounds
	Sneha A. Akhade, Pacific Northwest National Laboratory, Washington, USA

Networking & Refreshment 11:05-11:25 @ Europa Foyer

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11:25-11:45	Title: The strategic use of sugarcane for second generation ethanol production: Cold alkaline extraction pre-treatment  Danila Morais de Carvalho, Royal Institute of Technology, Sweden
11:45-12:05	Title: Production of ethanol and longer chain alcohols by fermentation  Johann Orlygsson, University of Akureyri, Iceland
12:05-12:25	Title: U.S Biodiesel markets and trends, with a special focus on sustainability.  Ryan Lamberg, University of California, USA
12:25-12:45	YRF: Development of Biodiesel Production from Brown Grease Mirit Kolet, Ariel University, Israel

Lunch Break 12:45-13:30 @ La Place AB

Panel Discussion & Networking 13:30-14:00 @ Europa Foyer

Awards & Closing Ceremony: 14:00-14:30

