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13th World Congress on

Biofuels and Bioenergy

August 26-27, 2019
Vienna, Austria



SCIENTIFIC PROGRAM

DAY 1
Monday, 26th August

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10

MEETING HALL 01	MEETING HALL 02
Talks On: Advanced Biofuels	**Talks On:** Renewable Energy
Newest technologies in Biofuels	Solar Energy
Fast pyrolysis process	Wind Energy
Thermochemical & Biochemical Routes	Renewable chemicals
Microbial pathways for	Green Energy
advanced biofuels product	Green Economy

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On: Nanomaterials and Nanotechnology	**Talks On:** Graphene and 2D Materials
Conversion technologies	Culturing Algae
Biomass and electricity	Harvesting and oil extraction systems
Industrial waste biomass	Cyanobacterial biofuels production
Sustainable feedstock development	Commercialization of algae biofuels

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Biofuels Congress 2019	Workshop

DAY 2
Tuesday, 27th August

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50

MEETING HALL 01	MEETING HALL 02
Talks On: Biodiesel	**Talks On:** Biomass feed stocks for renewable energy generation
Biodiesel as automobile fuel	Biomass Resources for Bioenergy
Biodiesel to hydrogen-cell power	Agriculture residues
Biodiesel production on industry level and scale up	Forestry materials
Biodiesel feed stocks	Energy crops
Crops for biodiesel production	
Efficiency and economic arguments	

12:50-13:35 LUNCH BREAK

13:35-15:55

MEETING HALL 01	MEETING HALL 02
Talks On: Biogas	**Talks On:** Biomass Technologies
Biogas from algae	Latest conversion Technologies in Biomass
Biogas technologies	Liquid Biofuels from Biomass
Biogas from agricultural waste	Trending Research from Biomass
New & possible substrates for biogas production	Cellulosic Ethanol from Biomass
Anaerobic packed-bed biogas reactors	
Biogas from breeding farms	

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	Workshop

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Vienna Attractions



















Glimpses of Biofuels and Bioenergy Conference

















Scientific Program

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Joint Event

12th World Congress on

Biofuels and Bioenergy

&

13th Global Summit and Expo on

Biomass and Bioenergy

September 04-06, 2018 | Zurich, Switzerland

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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

11:15-11:55 **Title: Development of efficient bioprocesses for improved bioethanol production from a mixture of 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

11:55-12:15 **Title: Biomass Gasification Technologies for Biochar Production and Energy Generation**
Ferruccio Pittaluga, University of Genoa, DIME, Italy

12:15-12:35 **Title: Nanocatalysts for oxygen removal from biomass derived biofuel**
Antonia Infantes-Molina, Universidad de Málaga, Spain

12:35-12:55 **Title: Bioethanol Production from Perennial Grasses**
Satyawati Sharma, CRDT, IIT New Delhi, India

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

13:40-14:00 **Title: Antimicrobial activity of microalgal strains against pathogenic bacteria and fungal Strains**
Sitwat Aman, The University of Lahore, Pakistan

14:00-14:20 **Title: Biomass Gasification: Sustainable technology for waste to energy**
Sandeep Kumar, Indian Institute of Technology (IIT) Bombay, India

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

14:20-14:40
Title: Sustainable Water-Energy-Environment Nexus for Thermal Bioenergy Conversion
Jinying Yan, KTH - Royal Institute of Technology, Sweden

14:40-15:00
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

15:00-15:20
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

15:20-15:40
Title: Modeling of slow pyrolysis of various biomasses in a rotary kiln using TGA data
Ramiar Sadegh-Vaziri, KTH Royal Institute of Technology, Sweden

15:40-16:00
Title: BIORAISE: a GIS tool for the evaluation of agricultural and forestry available biomass resources and costs in Mediterranean Countries
Eva Sevillano Marco, CEDER-CIEMAT, Spain

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

16:20-16:40
Title: Numerical study of the natural-draft flow and heat transfer in a biomass plancha-type cookstove
Alberto Beltrán, Universidad Nacional Autónoma de México, México

16:40-17:00
Title: Ultra thin membrane made by Atomic layer deposition for CO_2 separation
Ying-Bing Jiang, Univ. of New Mexico, USA

17:00-17:20
Title: Advanced liquid biofuels from residue biomass by thermo-catalytic reforming
Andreas Hornung, Fraunhofer Institute for Environmental, Safety, and Energy Technology (UMSICHT), Germany

17:20-17:40
Title: Chemical Characterization of Bio-oils from Cellulose, Hemicellulose and Lignin Pyrolysis
Martin Stas, University of Chemistry and Technology Prague, Czech Republic

17:40-18:00
Title: Fast entrained bio-oil production in an entrained flow pilot reaction
Peyrot Marine, CEA LITEN, Grenoble, France

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

10:50-11:10 Title: **The most important factors influencing human exposure assessments of Brominated Flame Retardants (BFRs) via indoor dust ingestion**
Layla Salih Al-Omran, University of Basrah, Iraq

11:10-11:30 Title: **Efficient Use of Sugarcane Bioenergy for Sustainability of Indian Sugar Industry**
Narendra Mohan, National Sugar Institute, Kanpur,India

11:30-11:50 Title: **Operando Investigations of Electrochemical Interfaces for Solar Fuel Production by Ambient-Pressure Photoelectron Spectroscopy**
Harri Ali-Löytty, Tampere University of Technology, Finland

11:50-12:10 Title: **Moroccan energy transition: development of renewable energies and energy efficiency**
Touria Barradi, Ecole Centrale de Casablanca, Morocco

12:10-12:30 Title: **Producing energy through gases from biomass**
Aude Bertrandias, Air Liquide Centre de Recherche Paris-Saclay, France

12:30-12:50 Title: **Estimated production of electrical energy for the controlled landfill in Fez (Morocco) by the 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

BM 01 Title: **Capillary electrophoresis in the analysis of volatile fatty acids, ammonium and nutrients from mesofilic anaerobic digestion samples**
Jasmiina Haverinen, University of Oulu, Kajaani University, Finland

BM 02	**Title: Design Automation of the Manufacturing Process of a Mini – Biodiesel Plant** **Deivison Silveira Santos de Jesus,** Automation and Control Engineer – FAMEC, Brazil
BM 03	**Title: Chitin and shrimp shells liquefaction and their use in blend membranes** **Wen-Rong Xu,** Hainan University, China
BM 04	**Title: Sustainable Water-Energy-Environment Nexus for Thermal Bioenergy Conversion** **Zhi Zou,** KTH - Royal Institute of Technology, Sweden
BM 05	**Title: Pyrolysis of aerobic sewage sludge in fluidized bed reactor between 700 & 830°C: Comparison with woody wastes.** **Sid Ahmed Kessas,** Université de Toulouse, CNRS, INPT, UPS, Toulouse, France
BF 01	**Title: Renewable resource-based material synthesized from lignocellulosic biomass** **Chikakao Asada,** Tokushima University, JAPAN
BF 02	**Title: Improved Production of Cellulosic Bioethanol using Miscanthus Hydrolysate by Engineered Saccharomyces cerevisiae** **Young-Lok Cha,** National Institute of Crop Science, Republic of KOREA
BF 03	**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: Pyrolyis| Bioeconomy

Chair: Stephen Mitchual, University of Education, Ghana

14:20-14:40	**Title: Fuel characteristics of binder free briquettes made at room temperature from blends of Ceiba pentandra and oil palm mesocarp fibre** **Stephen J Mitchual,** University of Education, Ghana
14:40-15:00	**Title: I'm green™ PE: paving the way for sustainable plastics.** **Martin Clemesha,** BRASKEM, Netherlands
15:00-15:20	**Title: Waste-derived carbon: structure, properties and applications** **Swati Sharma,** Karlsruhe Institute of Technology, Germany
15:20-15:40	**Title: How to meet the needs of bees? – Diversification of industrial crops cultivation for a more environmentally benign bioeconomy** **Moritz Von Cossel,** Universität Hohenheim, Germany
15:40-16:00	**Title: Scalable concepts for microwave pyrolysis** **John Robinson,** University of Nottingham, UK

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

16:20-16:40	**YRF: L-Lactic acid production from cellulose and hemicellulose extract of Walnut Shell through 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

17:20-17:40 **Title: Development of a Novel Liquid-Inerted Microwave Pyrolysis System**
Benjamin Shepherd, University of Nottingham, UK

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

10:05-10:25 **Title: Mechanochemistry for a smart and sustainable biodiesel production under heterogeneous catalysis**
Irene Malpartida Garcia, University of Malaga, Spain

10:25-10:45 **Title: Ex-ante and ex-post sustainability evaluation of a biorefinery: lessons learned from jatropha 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

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