6th World Congress on
Biofuels and Bioenergy

September 5-6, 2017  London, UK

Theme: Integration of Advanced Biofuels in the Circular Economy

Interactive Sessions
Keynote Lectures
Plenary Lectures
Workshops
Exhibitors
B2B Meetings

***For available speaker slots***
biofuelscongress@chemseries.com
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<th>Day 1</th>
<th>Time</th>
<th>Session 1</th>
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<td>08.00-09.00</td>
<td>General Session</td>
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<td>Reception/Registration</td>
<td>09.00-09.15</td>
<td>Inaugural Address</td>
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<td>09.15-09.45</td>
<td>Keynote/Plenary Talk 1</td>
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<td>09.45-10.15</td>
<td>Keynote/Plenary Talk 2</td>
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<td>10.15-10.45</td>
<td>Keynote/Plenary Talk 3</td>
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<td>Panel Discussions/Group Photo</td>
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<td>Coffee/Tea Break 10.45-11.00 (Networking)</td>
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<td>11.00-12.40</td>
<td>Bioenergy, Conversion and Transition of Bioenergy</td>
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<td>Lunch Break 12.40-13.30</td>
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<td>13.30-15.30</td>
<td>Bionergy Applications</td>
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<td>Coffee/Tea Break 15.30-15.45 (Networking)</td>
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<td>15.45-17.25</td>
<td>Workshop</td>
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<th>Day 2</th>
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<tr>
<td>Morning Sessions</td>
<td>09.00-10.40</td>
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<td>Coffee/Tea Break 10.40-10.55 (Networking)</td>
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<td>10.55-12.35</td>
<td>Aviation Biofuels, Advanced Biofuels</td>
<td>Algae Biofuels, Biohydrogen</td>
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<td>Lunch Break 12.35-13.25</td>
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<td>13.25-15.05</td>
<td>Biogas and Biorefineries</td>
<td>Biomass Technologies</td>
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<td>Coffee/Tea Break 15.05-15.20 (Networking)</td>
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<td>15.20-17.00</td>
<td>Bioethanol</td>
<td>Bioethanol Economics</td>
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**Poster presentation @ 17.00-18.00**

**Awards & Closing Ceremony**

*NOTE: Program Schedule is subject to change with final allotment of the speaker slots*
• Advanced Biofuels
• Algae Biofuels
• Aviation biofuels
• Biomass
• Biogas
• Biodiesel
• Bioethanol
• Bioenergy
• Bioenergy Applications
• Biohydrogen

• Biorefineries
• Bioethanol Economics
• Biomass Technologies
• Bioenergy Conversion
• Bioenergy Transition
• Biomass feed stocks for renewable energy generation
• Food vs Fuels Debate
• Production of Biofuels
• Process for Bioenergy
• Renewable Energy

Call for Abstract: http://biofuels-bioenergy.conferenceseries.com/europe/call-for-abstracts.php
Registration: http://biofuels-bioenergy.conferenceseries.com/europe/registration.php
Glimpses of Bioenergy 2016
Glimpses of Biofuels 2016
London, being the capital city of England and the United Kingdom, it is the most populous region, urban zone and metropolitan area in the United Kingdom. Standing on the River Thames, London has been a major settlement for two millennia, its history going back to its founding by the Romans, who named it Londinium. London is a leading global city, with strengths in the arts, commerce, education, entertainment, fashion, finance, healthcare, media, professional services, research and development, tourism and transport all contributing to its prominence. It is one of the world’s leading financial centers and has the fifth-or sixth-largest metropolitan area GDP in the world depending on measurement. London is a world cultural capital. It is the world’s most-visited city as measured by international arrivals and has the world’s largest city airport system measured by passenger traffic. London’s 43 universities form the largest concentration of higher education in Europe. In 2012, London became the first city to host the modern Summer Olympic Games three times. London has a diverse range of peoples and cultures, and more than 300 languages are spoken within its boundaries. It is a major center of higher education teaching and research and its 43 universities form the largest concentration of higher education in Europe. London contains four World Heritage Sites: the Tower of London; Kew Gardens; the site comprising the Palace of Westminster, Westminster Abbey, and St Margaret’s Church; and the historic settlement of Greenwich. Other famous landmarks include Buckingham Palace, the London Eye, Piccadilly Circus, St Paul’s Cathedral, Tower Bridge, Trafalgar Square, and The Shard. London is home to numerous museums, galleries, libraries, sporting events and other cultural institutions, including the British Museum, National Gallery, Tate Modern, British Library and 40 West End theatres.

**Venue**

Park Inn by Radisson
Bath Rd, Sipson, Heathrow
UB7 0DU, London, UK

**Important Dates**

Abstract submission opens: November 25, 2016
Registration opens: November 25, 2016
On spot registration: September 05, 2017

**Contact Details:**

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Email: biofuelscongress@chemseries.com, biofuelscongress@chemicalengg.org

http://biofuels-bioenergy.conferenceseries.com/europe/
Keynote Forum

**Introduction**

*Consolidated bioprocessing of lignocellulosic materials for cost-competitive bioenergy production*

**Lew P Christopher**, Lakehead University, Canada

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

**Jianzhong Sun**, Jiangsu University, China

*Germany’s future biogas market – Back to the roots?*

**Michael Kottner**, German Biogas and Bioenergy Society, Germany

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**Track 2: Biomass feed stocks for renewable energy generation**

**Session Introduction**

**Session Chair**: David Lewis, Muradel Pty Ltd, Victoria, Australia  
**Session Co-chair**: Rob Mitchell, University of Nebraska, USA

<table>
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<tr>
<th>Title</th>
<th>Author and Institution</th>
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<tr>
<td>Microalgae - Are they an appropriate feedstock for biofuels? What are the alternatives?</td>
<td>David Lewis, Muradel Pty Ltd, Victoria, Australia</td>
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<tr>
<td>Herbaceous perennial feedstocks for marginally-productive landscapes in the central USA</td>
<td>Rob Mitchell, University of Nebraska, USA</td>
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<td>Optimization of sustainable forest-based biomass supply chains</td>
<td>Tareq Dehbi, University of British of Columbia, Canada</td>
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<td>Characterisation of spent sulphite liquor and its valorisation using Aspen Plus® simulation software</td>
<td>Alberto Coz, University of Cantabria, Spain</td>
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<td>Miscanthus for biogas production – Influence of harvest date and stand age on the biochemical methane potential (BMP) and soil properties</td>
<td>Axel Schmidt, University of Trier, Germany</td>
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**Lunch Break @ Restaurant**

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<th>Title</th>
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<tr>
<td>Production of polyhydroxybutyrate (PHB) from wheat bran through enzymatic hydrolysis and fermentation</td>
<td>Nallusamy Sivakumar, Sultan Qaboos University, Muscat, Oman</td>
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<td>Yellow laccase mediated delignification: An attempt towards eco-friendly pretreatment of lignocellulosics</td>
<td>Rintu Banerjee, Indian Institute of Technology, India</td>
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<td>Electricity generation by refined biogas from municipal solid waste</td>
<td>Mohammed Khader Karunnappilli, Petrocare Engineering &amp; Consultancy Services Private Limited, India</td>
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<tr>
<td>Cassava production as an energy crop in Nigeria: Analysis of present and future potentials</td>
<td>Nelson Abila, Busho Serenity Foundation, Ondo State, Nigeria</td>
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Compare the ability to generate electricity by Azolla fern's biogas in different systems of small scale CHP
Alireza Mehrdadfar, Islamic Azad University, Tehran, Iran

Coffee Break @ Foyer

Track 4: Bioenergy Transition
Track 7: Processes for Bioenergy

Session Introduction

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

Title: Ionic liquid based artificial cellulase type catalysts for cellulosic ethanol process
Ananda S Amarasekara, Prairie View A&M University, USA

Title: Gasification of lactose in supercritical water as a model compound of dairy industry effluent
Janusz A Kozinski, York University, Canada

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

Title: Study on Submerged Anaerobic Membrane Bioreactor (SAMB) treating hypersaline raw tannery wastewater for biogas production
Umaiyyakunjaram R, Central Leather Research Institute, India

Day 2 June 14, 2016
Olimpica 2

Keynote Forum

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

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

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

Coffee Break @ Foyer

Track 3: Bioenergy Conversion

Session Chair: Foster Agblevor, Utah State University, Logan UT, USA
Session Co-chair: Blake A Simmons, Joint BioEnergy Institute, USA

Title: Production of infra-structure ready biofuels from olive mill wastewater sludge
Foster Agblevor, Utah State University, Logan UT, USA

Title: Synthesis and characterization of renewable ionic liquids for biomass conversion
Blake A Simmons, Joint BioEnergy Institute, USA

Title: Method for hot real-time sampling of Gasification Products
Marc Pomeory, National Renewable Energy Laboratory, USA

Title: “Milking” of cyanobacterial cells as a strategy for sustainable production of biofuels
Tatsuo Omata, Nagoya University, Japan

Title: Co-gasification of biomass and coal in fluidized bed gasifier
Pinakeswar Mahanta, Indian Institute of Technology Guwahati, Guwahati, India

Title: An eco-friendly enzyme mediated biomass pretreatment and hydrolysis towards bioethanol production
Rajiv Chandra Rajak, Indian Institute of Technology, India
Title: Valorization of pineapple leaf waste through integrated production of bioethanol and biomanure
Anjani Devi Chintagunta, Indian Institute of Technology, India

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

Session Chair: Sandra D Eksioglu, Clemson University, USA

Title: Bioenergy supply chains optimization: models and applications
Sandra D Eksioglu, Clemson University, USA

Title: Integrated bioenergy and food systems: Building sustainable options based on evidence
Sergio Luis Rivero Acha, Food and Agriculture Organization of the United Nations, Italy

Title: Food waste co-digestion with sewage sludge – Realising its potential in Malaysia
Kumaran Palanisamy, Universiti Tenaga Nasional, Malaysia

Title: Performance evaluation of large scale anaerobic digester using gas mixing for wholesale vegetable complex waste producing biogas and power
C Prem Ananth Surendran, Central Leather Research Institute–CSIR, India

Session Introduction

Poster Presentation

BE-01  Title: Substitution of maize in biogas production – Biochemical Methane Potential (BMP) of composites of maize and perennial energy crops
Christoph Emmerling, University of Trier, Germany

BE-02  Title: Complete saccharification of cellulose through chemoenzymatic hydrolysis
In Taek Hwang, Biorefinery Research Group, Republic of Korea

BE-03  Title: Alkaline pretreatment with recycled process wastewater using twin- screw system for bioethanol production
Young-Lok Cha, Bioenergy Crop Research Institute, KOREA

BE-04  Title: Development of Upflow Multi-layer Anaerobic Reactor (UMAR) treating high-solids organic wastes and bacterial community analysis
Si-Kyung Cho, Dongguk University, Republic of Korea

BE-05  Title: Can microalgae be alternative candidates for biodiesel production?
Khaled Nageh Mohammed Elsayed, Jacobs University Bremen, Germany

BE-06  Title: Synchronous lignin degradation and enhanced reducing sugar production along with fermentation to bioethanol: A single step bioprocessing of mixed lignocellulosic feedstocks
Avanthi Althuri, Indian Institute of Technology, India

BE-07  Title: Efficient production of butyric acid from lignocellulosic hydrolysate by Clostridium sp. S1
Youngsoon Um, Korea Institute of Science and Technology, Republic of Korea

BE-08  Title: Amino acids as a source of higher alcohols
Henry Oamen Patrick, The University of Manchester, United Kingdom
| BE-09 | Title: Optimization of Isopropanol-Butanol (IB)-fermentation with Clostridium sp. A1424  
Youngsoon Um, Korea Institute of Science and Technology, Republic of Korea |
| BE-10 | Title: Biogas production potential from teak leaves (Tectona grandis)  
Anongnart Wannapokin, Maejo University, Thailand |
| BE-11 | Title: Biodiesel production from sunflower oil using ZSM5 supported catalysts  
Jane Estephane, University of Balamand, Lebanon |

**Award Ceremony**
2nd International Congress and Expo on

Biofuels & Bioenergy

August 29-31, 2016  Sao Paulo, Brazil

Scientific Program
### Keynote Forum

**Introduction**

- **Title: Biodiesel and ethanol from modified 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 Penicillium 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**

**Title: Production and chromatographic characterization of bio-oil from the rice husk pyrolysis**

**Title: Image analysis based ash fusion testing**

**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-bed reactor**  
**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 *Penicillium 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 gcXgc/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 biorefineries 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 catalytic 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
Track 4: 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 feedstocks
Daniel Hayes, Celignis Limited, Ireland
Title: Optimization models in support of biomass co-firing decisions in coal fired power plants
Sandra D Ekşioğlu, 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, Israel |
| 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?  
| Rocío A Díaz-Chávez, 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 catLiq-process 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 |

| 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 Brasilia, 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-Butanol production from co2 by *Synechococcus elongatus* in Turkey  
Cansu Dogan, Dokuz Eylül 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 liquids 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 |

### 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 nanocrystalline 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
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<tr>
<th>Title: The development of a wheat straw based biorefinery for bioethanol fermentation</th>
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<td>Chenyu Du, University of Huddersfield, UK</td>
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<td>Title: The development of a bio refining strategy to convert municipal solid waste into bioethanol</td>
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<td>Jwan Abdullah, University of Nottingham, UK</td>
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<td>Coffee Break</td>
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<tr>
<td>Title: Itaconic acid production from sorghum bran-a biorefining approach</td>
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<td>Amina Ahmed, University of Nottingham, UK</td>
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<td>Title: Biorefinery annexed to typical South African sugar mill, Part 1: Flowsheet development and simulation</td>
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<td>M. Ali Mandegari, University of Stellenbosch, South Africa</td>
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<tr>
<td>Title: Biorefinery annexed to South African sugar mill, Part II; Energy sufficiency analysis</td>
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<td>Somayeh Farzad, University of Stellenbosch, South Africa</td>
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