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2<sup>nd</sup> International Congress and Expo on

# **Biofuels & Bioenergy**

August 29-31, 2016 Sao Paulo, Brazil

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## **Scientific Program**



## Lorangerie II

conference**series.com** 09:30-09:50

## Opening Ceremony

## Keynote Forum

09:50-10:00	<b>Introduction</b>
10:00-10:30	<b>Title: Biodiesel and ethanol from modified sugarcane</b> Vijay Singh, University of Illinois, USA
10:30-11:00	<b>Title: Sink or Swim: Navigating the biofuels climate in an oil price recession</b> Jordan Godwin, Platts, USA
<b>Group Photo and Networking &amp; Refreshment Break 11:00-11:20 @ Foyer Versailles</b>	
11:20-11:50	<b>Title: On-site cellulase production with feeding spent sulfite liquor by <i>Penicillium oxalicum</i> for integrated biorefinery</b> 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

11:50-12:10	<b>Title: Lignocellulosic biomass fractionation by a deep eutectic solvent and a chelator mediated fenton system</b> L Orejuela Escobar, Virginia Tech, USA
12:10-12:30	<b>Title: Hydrothermal liquefaction of eucalyptus: Effect of reaction conditions on product distribution</b> Carmina Reyes Plascencia, Universidad de la República, Uruguay
12:30-12:50	<b>Title: Modification of biomass ash by aluminosilicates and other additives</b> David Nichols, University of Nottingham, UK

## Lunch Break 12:50-13:40 @ Vargas Restaurant

13:40-14:00	<b>Title: Fractionation of bio-oils from the pyrolysis of coconut fibers</b> Débora Tomasini, Universidade Federal do Rio Grande do Sul, Brazil
14:00-14:20	<b>Title: Unravelling new strategies for butanol production in <i>Clostridium acetobutylicum</i> using <i>in silico</i> approaches</b> Carla Andreia Freixo Portela, Centro Tecnológico de Bioetanol, Brazil
14:20-14:40	<b>Title: Explosibility and burning properties of pulverised rice husk and their dependence on particle size</b> 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

14:40-15:00	<b>Title: Characterization of sugarcane bagasse produced in the central region of São Paulo state in Brazil</b> Nestor Proenza Pérez, São Paulo State University, Brazil
15:00-15:20	<b>Title: Production and chromatographic characterization of bio-oil from the rice husk pyrolysis</b> Eliane Lazzari, Universidade Federal do Rio Grande do Sul, Brazil
15:20-15:40	<b>Title: Image analysis based ash fusion testing</b> Patrick James Dale, University of Nottingham, UK

## Networking and Refreshment Break 15:40-16:00 @ Foyer Versailles

16:00-16:20	<b>Title: Hydrothermal carbonization of biomass to produce reduced-ash fuel</b> Robert J Stirling, University of Nottingham, UK
16:20-16:40	<b>Title: Performance of CaO from different sources as a catalyst precursor in soybean oil transesterification: kinetics and leaching evaluation</b> Daniel Bastos de Rezende, UFMG, Brazil

16:40-17:00 **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

- 09:00-09:30 **Title: Green technology for biodiesel: Production of methyl esters from macauba oil over egg shell and marble heterogeneous catalysts**  
Vânia Márcia Duarte Pasa, UFMG, Brazil
- 09:30-10:00 **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: Vânia Márcia Duarte Pasa, UFMG, Brazil

Session Co-Chair: Majid Hosseini, The University of Texas Rio Grande Valley, USA

#### Session Introduction

- 10:00-10:20 **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
- 10:20-10:40 **Title: Producing hydrocarbons for green diesel and jet fuel formulation from palm kernel fat over Pd/C**  
Cristiane Almeida Scaldaferrri, UFMG, Brazil

#### Networking and Refreshment Break 10:40-11:00 @ Foyer Versailles

- 11:00-11:20 **Title: Biodiesel and glycerol transesterification by layered double hydroxides in stirring packed-bed reactor**  
Jeffrey C S Wu, National Taiwan University, Taiwan
- 11:20-11:40 **Title: Etherification of biodiesel-derived glycerol with isobutene as fuel additives**  
Du Zexue, Research Institute of Petroleum Processing, China
- 11:40-12:00 **Title: Hydrotreatment of waste fats and oils with heterogeneous catalysis for tailor made production of biofuels**  
Martin Mittelbach, University of Graz, Austria
- 12:00-12:20 **Title: Advances in carbohydrates production and hydrolysis of agroindustrial residues for fuel ethanol production**  
Pedro de Oliva Neto, São Paulo State University, Brazil
- 12:20-12:40 **Title: Improvement of *Penicillium oxalicum* cellulase production via reconstruction of expression regulation network (RERN)**  
Xin Song, Shandong University, China
- 12:40-13:00 **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 Canaveieira SA, Brazil

#### Lunch Break 13:00-14:00 @ Vargas Restaurant

- 14:00-14:20 **Title: FTIR spectroscopy for the studies of catalysts and catalytic reaction mechanisms**  
Alexey Tsyganenko, St. Petersburg State University, Russia

#### Workshop

- 14:20-15:20 **Title: Technical challenges of fermentative bio-hydrogen production from biomass**  
Majid Hosseini, The University of Texas Rio Grande Valley, USA

#### Poster Presentations @ 15:20-16:20

- 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 $\times$ gc/qms**  
Allan dos Santos Polidoro, Universidade Federal do Rio Grande do Sul, Brazil
- BFBE-012 **Title: Physicochemical properties of *Cnidocolus 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 16:20-16:40 @ Foyer Versailles**

**Panel Discussion**

**Day 3**

**August 31, 2016**

**Lorangerie II**

**Keynote Forum**

**09:00-09:30** 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

**09:30-10:00** Title: Integrated forest biorefineries of the emerging bioeconomy

Lew Christopher, Biorefining Research Institute, Canada

**10:00-10:30** 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 10:30-10:50 @ Foyer Versailles**

**Sessions: Biodiesel | Biogas | Bioethanol**

**Session Chair: Claudia Alcaraz Zini, Universidade Federal do Rio Grande do Sul, Brazil**

**Session Co-Chair: Vânia Márcia Duarte Pasa, UFMG, Brazil**

**Session Introduction**

**10:50-11:10** Title: Alternative process of deacidification of Macauba oil (*Acrocomia aculeata*) aiming the biodiesel production

Daniel Bastos de Rezende, UFMG, Brazil

**11:10-11:30** Title: Production of bioethanol and chemicals from oil palm empty fruit bunch by bisulfite process  
Jian Zhao, Shandong University, China

**11:30-11:50** Title: Biokerosene and green diesel from macauba oils via catalytic deoxygenation over Pd/C  
Vânia Márcia Duarte Pasa, UFMG, Brazil

**11:50-12:10** 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**

**12:10-12:30** Title: State-of-the-art of biomass gasification for electricity generation

Electo Eduardo Silva Lora, Federal University of Itajubá – UNIFEI, Brazil

**12:30-12:50** 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

**12:50-13:10** 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 13:10-14:10 @ Vargas Restaurant**

**14:10-14:30** Title: Some projects of institute of bioenergy research (IPBEN) at UNESP guaratinguetá  
José Luz Silveira, São Paulo State University, Brazil

**14:30-14:50** Title: Biofuels: A solution to energy shortage in Pakistan  
De Montfort University, United Kingdom

**14:50-15:10** Title: Algae-based wastewater treatment for biofuel production: Processes, species and extraction methods  
Hossein Ahmadzadeh, Ferdowsi University of Mashhad, Iran

**Networking and Refreshment Break 15:10-15:30 @ Foyer Versailles**

**Award & Closing ceremony**