

Program

BIOENERGY-II: FUELS AND CHEMICALS FROM RENEWABLE RESOURCES

March 8 - 13, 2009

Intercontinental Hotel Rio
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SUNDAY, MARCH 8, 2009

16:00 – 18:00 Registration

18:00 – 19:00 Reception

19:00 – 20:30 Dinner

NOTES –THIS NEEDS TO BE REVISED PER THIS EVENT INFO

- Technical sessions will be held in Quartz A and B
- Lunches will be in the Monseigneur
- Dinners will be in the Monseigneur
- Posters will be in the Topazio & Turmalina. Posters should be hung the morning of your assigned day of presentation and should be removed after your assigned session in order to make room for the next days presentations.
- Breakfasts will be in the A Varanda Restaurant
- Audiotaping, videotaping and photography of presentations are strictly prohibited.
- *Speakers – Please leave at least 5 minutes for questions and discussion.*
- *Please do not smoke at any conference functions.*
- *Turn your cellular telephones to vibrate or off during technical sessions.*
- Be sure to make any corrections to your name/contact information on the Master Participant List or confirm that the listing is correct. A corrected copy will be sent to all participants after the conference.

MONDAY, MARCH 9, 2009

08:00 – 09:00	Breakfast
09:00 – 10:00	TBA
10:00 – 10:15	Kim Olofsson , Lund University, Sweden Designing an SSCF process for bioethanol production from lignocellulosic substrates by co-fermentation of xylose and glucose
10:15 – 10:30	Michael A. Cotta , NCAUR-ARS-USDA, USA Conversion of lower lignin mutants of sorghum bicolor (L) to ethanol
10:30 – 11:00	Coffee Break
11:00 – 11:15	Mose Rossi , Institute of Protein Biochemistry-C.N.R, Italy Thermophilic enzymes for biomass conversion
11:15 – 11:30	Daewon Pak , Seoul National University of Technology, Korea
11:30 – 11:45	Aiduan Li , University College London, United Kingdom Bioethanol from municipal solid waste: the role of biomass properties and structures during the ethanol conversion process
12:00 – 13:30	Lunch
13:30 – 17:30	FREE TIME
17:30 - 17:45	Vijay Singh , University of Illinois at Urbana-Champaign, USA Increasing corn throughput dry grind process for ethanol production
17:45 – 18:00	Anthony J. Clarke , University of Guelph, Canada Real-time observation of cellulose biodegradation by atomic force microscopy
18:00 – 18:15	Geng Anli , Ngee Ann Polytechnic, Comparison of laboratory and industrial <i>SACCHAROMYCES CEREVISIAE</i> for their inhibitor resistance and xylose utilization
18:15 – 18:30	Meik Wusterhausen , Geesthacht GmbH Institute of Polymer Research, Germany High performance vapor permeation with organic membranes for dewatering ethanol and other organic solvents
18:30 – 18:45	Break
18:45 – 19:00	Byoung-In Sang , Korea Institute of Science and Technology, Korea Membrane-extractive butanol production by immobilized clostridium BEIJERINCKII NCIMB 8052
19:00 – 19:15	Fabio Napoli , University of Studies of Napoli Federico II, Italy Assessment of kinetics for butanol production by clostridium acetobutylicum
19:15 – 19:30	Bo Liao , University of Saskatchewan, Canada Use of genetically modified saccharomyces cerevisiae to convert soluble starch directly to ethanol
19:30- 21:00	Dinner
21:00- 23:00	Poster Session with Social Hour

TUESDAY, MARCH 10, 2009

07:30 – 08:30	Breakfast
08:30 – 09:30	Eduardo Cavalcanti , Instituto Nacional de Tecnologia, Brazil Oxidation, Thermal and Storage Stability and Materials Compatibility Of Brazilian Soy Methylic Biodiesel
09:30 – 09:45	Shijie Liu , Sunny ESF, USA Conversion of woody biomass to energy, chemicals and materials
09:45 – 10:00	Ho Nam Chang , Korea Advanced Institute of Science & Technology, Korea Biofuel production from biomass-derived volatile fatty acid platform
10:00 – 10:15	Sylvio Ortega Filho , PHB Industrial S/A, Brazil Production of renewable biopolymers (PHB, PHB-HV) based in a biorefinery concept
10:15 – 10:45	Coffee Break
10:45 – 11:00	Jan Piskorz , Resource Transforms International, Canada Hydrous thermolysis of biomass production of Hodge' Carbonlys and Oligomeric Lignin
11:00 – 11:15	Mohamed Hamed , Washington University in St. Louis, USA Mixing characteristics of bubble columns with internals for biomass to liquid synthesis
11:15 – 11:30	Balaji Balagurunathan , Institute of Chemical and Engineering Sciences, Singapore, Singapore In silico analysis for the production of higher carbon alcohols using <i>saccharomyces cerevisiae</i>
11:30 – 11:45	Clay M. Horiuchi , University of Colorado at Boulder, USA Investigating catalyst design strategies for selective reaction of Cyclic C ₄ oxygenates from biomass through use of spectroscopic techniques
11:45 – 12:00	Gianluca Marcotullio , Delft University of Technology, The Netherlands Selective production of furfural from C5 sugars contained in biomass, reaction kinetic assessment
12:00 – 12:15	Juray De Wilde , Universite catholique de Louvain, Belgium A novel two-glycerol based extraction- re-extraction process for the separation of chemicals produced by acidogenic fermentation of biomass
12:30 - 14:00	Lunch
14:00- 19:00	Free Time
19:00- 20:30	Dinner
20:30 – 22:00	Poster Session and Social Hour

WEDNESDAY, MARCH 11, 2009

07:30 – 08:30	Breakfast
08:30 – 9:30	Fernando Preto , Natural Resources Canada, Canada Supply and properties of agricultural residues suitable for bioenergy application
09:30- 09:45	Dietrich Meier , vTI-Institute of Wood Technology and Wood Biology, Germany Comparative fast pyrolysis of agricultural residues for use in biorefineries
09:45 – 10:00	Piotr Oleskowicz-Popiel , Technical University of Denmark, Denmark A simulation model of combined biogas, bioethanol and protein fodder coproduction in organic farming
10:00 – 10:15	Ahmed Youssef , Washington University in St. Louis, USA Novel design of multiphase reactors for biomass-to-liquid synthesis
10:15 – 10:45	Coffee Break
10:45 – 11:00	Ran Xu , The University of Western Ontario, Canada Pyrolysis of agricultural wastes into bio-oil in a bubbling fluid bed pilot plant
11:00 – 11:15	B. Vreugdenhil , Energy research Centre of the Netherlands (ECN), The Netherlands Scale-up of the milena gasification process for the production of bio-sng
11:15 – 11:30	Muthanna Al-Dahhan , Washington University in St. Louis, USA Advanced measurement and computational techniques for optimizing the design and scale-up strategy for biogas production via anaerobic digestion
11:30 – 11:45	Li Chen , Commissariat à l'Energie Atomique (CEA), France FAST PYROLYSIS UNDER GASIFICATION CONDITIONS: INFLUENCE OF PARTICLE SIZE, REACTOR TEMPERATURE AND GAS PHASE REACTIONS
11:45 – 12:00	E. Simeone , Delft University of Technology, The Netherlands Study of the behavior of a catalytic ceramic candle filter in a lab-scale unit at high temperatures
12:00 – 13:30	Lunch
13:30 – 17:00	Free Time
17:00 – 17:15	Jesús Arauzo , University of Zaragoza, Spain Synthesis gas by catalytic steam reforming of bio-oil
17:15 – 17:30	Mohammad Latifi , Institute for Chemicals and Fuels from Alternative Resources (ICFAR), Canada Effects of temperature and residence time on the thermal cracking of bio-oil for syngas production
17:30 – 17:45	Avdhesh Kr. Sharma , DCR University of science and Technology, India Exergy analysis of thermochemical conversion of woody biomass in fixed bed gasifiers

WEDNESDAY, MARCH 11, 2009 CONTINUED

- 17:45 – 18:00 **Capucine Dupont**, Commissariat à l'Energie Atomique, France
Suitability of wood chips from forestry and different biomass feedstocks for use in a semi-industrial plant of BTL production by gasification
- 18:00 – 18:15 **Isabel Paula Marques**, Universidade do Minho, Paraguay
Anaerobic digestion of OMW: anaerobic filter vs. hybrid
- 18:15 – 18:30 **Fernando Preto**, Natural Resources Canada, Canada
Combustion of pyrolysis 'bio-oils' in a tunnel furnace
- 18:30 – 18:45 Break
- 18:45 – 19:00 **Christina J. Booker**, University of Western Ontario, Canada
Characterization of bio-oils from agricultural biomass as potential pesticides
- 19:00 – 19:15 **Martin Huard**, The University of Western Ontario, Canada
Development of a novel integrated gas-solid separator for pyrolysis reactors
- 19:15 – 19:30 **M. Hakký Almaa**, University of Kahramanmaraş Sutcu Imam, Turkey
Solvolytic of wood by using bio-oil from wood
- 19:30 – 19:45 **Paul de Wild**, Energy research Centre of the Netherlands (ECN), The Netherlands
Biomass valorization by a hybrid thermochemical fractionation approach
- 19:45 – 20:00 **Denilson DA SILVA PEREZ**, Institut Technologique FCBA, France
The Impact of storage conditions on the forest biomass quality for biofuels production
- 20:00 – 21:30 Dinner
- 21:30 – 23:30 Poster Session with Social Hour

THURSDAY, MARCH 12, 2009

08:00 – 09:00	Breakfast
09:00 – 10:00	Palligarnai T Vasudevan , University of New Hampshire, USA Biodiesel production – Current state of the art and challenges
10:00 – 10:15	Jose Gerlado A. Pacheco , Universidade Federal de Pernambuco – UFPE, Brazil Production of ethylic biodiesel from hydrolysis and estherification of acidic fat residues
10:15 - 10:30	Jesús Arauzo , University of Zaragoza, Spain Hydrogen from catalytic steam reforming of bio-oil in a bench scale fluidized bed
10:30 – 10:45	Muthanna Al-Dahhan , Washington University in St. Louis, USA Microalgae culturing via advanced measurement and computation techniques for bioenergy production
10:45 – 11:15	Coffee Break
11:15 – 11:30	Zahira Yaakob , Universiti Kebangsaan Malaysia, Malaysia Transtersterification of Jatrophia Curcas oil radiated with the Gamm Ray
11:30 – 11:45	Erin E. Powell , University of Saskatchewan, Canada A novel bioreactor design for culture of photosynthetic microorganisms and its use as a cathodic half cell
11:45 – 13:30	Lunch
13:30 – 17:00	Free Time
17:00 – 17:15	Flora Ng , University of Waterloo, Canada Upgrading waster oil to biodiesel via catalytic distillation
17:15 – 17:30	Jesús Arauzo , University of Zaragoza, Spain Hydrogen production by aqueous-phase reforming
17:30 – 17:45	M.G. Devanesan , Annamalai University, India Optimization of biodiesel production in a packed red reactor using co-immobilized Canada Bugosa Lipase and rhizopus orvzae cells
17:45 – 18:00	Nádia Regina Camargo Fernandes Machado , Universidade Estadual de Maringá, Brazil Temperature effect of hydrogen production from reactions between ethanol and steam in the presence of PD-RU/NB ₂ O ₅ -TiO ₂ catalyst.
18:00 – 19:30	Poster Session with Cocktail
19:30 – 23:00	Banquet

FRIDAY, MARCH 13, 2009

07:00 – 08:00	Breakfast
08:00 – 9:00	WORKSHOP I: Bioethanol-Biobutanol
9:00 – 10:00	WORKSHOP II: Biodiesel
10:00 – 10:30	Coffee Break
10:30 – 11:30	WORKSHOP III: Thermochemical Conversion into Fuels and Chemicals
11:30 – 12:30	<i>Ad Hoc</i> Discussion – What is next? Closing of Conference
12:30 – 13:45	Lunch and Departure