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 Quartzo 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

07:30 – 08:30	Breakfast
08:30 - 09:30	**Elba Pinto da Silva Bon**, Universidade Federal do Rio de Janeiro, Brazil "Historical and Recent Developments in the Enzymatic Hydrolysis of Brazilian Feedstocks for Ethanol Production"
09:30 – 09:45	**Andriy A. Sibirny,** NAS of Ukraine, Russia Development of non-conventional yeast hansenula polymorpha for high-temperature fuel ethanol production from lignocellulosic residues[CANCELLED]
09:45 – 10:00	**Kim Olofsson,** Lund University, Sweden Designing an SSCF process for bioethanol production from lignocellulosic substrates by co-fermentation of xylose and glucose
10:00 – 10:15	**Michael A. Cotta,** NCAUR-ARS-USDA, USA Conversion of lower lignin mutants of sorghum bicolor (L) to ethanol
10:15 – 10:45	Coffee Break
10:45 – 11:00	**Mose Rossi,** Institute of Protein Biochemistry-C.N.R, Italy Thermophilic enzymes for biomass conversion
11:00 – 11:15	**J.C. Duarte,** INETI, Department of Biotechnology, Portugal Ethanol production from different substrates by a flocculent *saccharomyces cerevisiae* strain[CANCELLED]
11:15 – 11:30	**Daewon Pak,** Seoul National University of Technology, Korea
11:30 – 11:45	**Jingquan Lu,** Bioprocess Science and Technology Group, Risø-DTU, Denmark Dependence of a thermoanaerobacter mutant (strain A10) on nutrients in the production of ethanol from wheat straw
11:45 – 12:00	**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	**Vingjay 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 *SACCHAROMYCES CEREVISIAE* 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

MONDAY, MARCH 9, 2009 CONTINUED

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	**Fernando Preto,** Natural Resources Canada. Canada Supply and properties of agricultural residues suitable for bioenergy application
11:00 – 11:15	**Jan Piskorz,** Resource Transforms International, Canada Hydrous thermolysis of biomass production of Hodge' Carbonlys and Oligomeric Lignin
11:15 – 11:30	**Mohamed Hamed,** Washington University in St. Louis, USA Mixing characteristics of bubble columns with internals for biomass to liquid synthesis
11:30 – 11:45	**Balaji Balagurunathan,** Institute of Chemical and Engineering Sciences, Singapore, Singapore In silico analysis for the production of higher carbon alcoholis using saccharomyces cerevisiae
11:45 – 12:00	**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
12:00 – 12:15	**Gianluca Marcotullio,** Delft University of Technology, The Netherlands Selective production of furfuralfrom C5 sugars contained in biomass, reaction kinetic assessment
12:15 – 12:30	**Juray De Wilde,** Universite catholique de Louvain, Belgium A novel tao-glyverol 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 Biofuels and Biochemicals: Investment Opportunities?
09:30- 09:45	**Dietrich Meier**, vTI-Institute of Wood Technlogy 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

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 pysolysis reactors
19:15 – 19:30	**M. Hakký Almaa,** University of Kahramanmaras Sutcu Imam, Turkey Solvolysis 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 estheryfication 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 Jatropha 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 Waterlo, 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	**Esben Taarning,** Haldor Topsøe A/S, Denmark Fuels and Chemicals from Biomass and Waste
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_2O_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	*Ad Hoc* Discussion – What is next? Closing of Conference
12:30 – 13:45	Lunch