Proceedings of 13th International Congress on

BIOFUELS & BIOENERGY and BIOFUELS & BIOECONOMY

October 18-20, 2018 | Ottawa, Canada

Conference Series LLC Ltd | 47 Churchfield Road, London, UK, W3 6AY Toll Free: +44-800-014-8923.

Day 1 October 18, 2018 Conference Hall: Diefenbaker

08:00-08:30 Registrations

08:30-09:00 Opening Ceremony		
Keynote Forum		
	Introduction	
09:00-09:30	Title: How do we make bioeconomy and biofuels research relevant and accessible to	
	politicians, the public, industry, and the media?	
	Anton Holland, NIVA Inc., Canada	
09.30-10.00	Title: Thermo Catalytic Reforming (TCR [®]) sustainable resources from sewage sludge and	
07.30-10.00		
	organic waste Bruse Hillen System Technologies Canada Itd. Canada	
10.00.10.00	Bruce Hillen, Susteen Technologies Canada Ltd., Canada	
10:00-10:30	Title: Dual fuel combustion in compression ignition engines and the application for low carbon fuels	
	Hongsheng Guo, National Research Council Canada, Canada	
	Networking & Refreshment Break 10:30-10:50	
10.50-11.20	Title: An overview of renewable fuels ethanol from cellulose and bio-diesel from	
10.30-11.20		
	conventional/algae feed status and economic options for ETBE	
11 00 11 50	Amarjit Bhakshi, Refining Hydrocarbon Technologies LLC, USA	
11:20-11:50	Title: Implantable biofuel cells operating <i>in vivo</i> — Potential power sources for bioelectronic	
	Evgeny Katz, Clarkson University, USA	
	Panel Discussion: 11:50-12:10	
Sessions I: Bio	mass Biomass feed stocks for renewable energy generation Biomass technologies	
	Roger Ruan, University of Minnesota, USA	
	Session Intoduction	
	Title: Microwave assisted fast catalytic pyrolysis and gasification of biomass for biofuels and	
12:10-12:35	bioenergy production	
	Roger Ruan, University of Minnesota, USA	
12:35-13:00	Title: Flexible bioenergy system integration into energy supply systems of urban areas	
	Rafal Strzalka, Stuttgart University of Applied Sciences, Germany	
	Lunch Break 13:00-14:00 Title: Lessons from IPRs involving biomass-related patents	
14:00-14:25	Peter A Jackman, Sterne, Kessler, Goldstein & Fox PLLC, USA	
	Title : Business in emerging bioeconomy. How can forest biomass help emerging	
14:25-14:50	economies in Eastern Europe?	
14:23-14:50	Cristian Panaite, ForstPan, Romania	
_	Panel Discussion 14:50-15:00	
Sessions II. Ad	Ivanced Biofuels Production of Biofuels	
	Elsa Weiss-Hortala, IMT Mines Albi, France	
	Title: Properties of biofuels versus petrofuels as transportation fuels	
15:00-15:25	M R Riazi, Kuwait University, Kuwait	
	Title: Impact of composition of kitchen waste for biofuel production under hydrothermal	
15:25-15:50	liquefaction condition	
10.20 10.00	Elsa Weiss-Hortala, IMT Mines Albi, France	
	Networking & Refreshment Break 15:50-16:10	
	Title: A novel approach to monitoring and controlling biofilms in an ethanol cooling	
16:10-16:35	system resulting in maximized ethanol production and minimized corrosion failures of	
	piping and heat exchangers	
	Andrew Ledlie, Solenis Canada ULC, Canada	

16:35-17:00	Title: Maximizing IP protection of lignocellulosic biofuel technology: Challenges and opportunities	
	Wendy E Lamson, Perley-Robertson, Hill & McDougall, Canada	
	Title: Utilization of waste biomass for fuel and energy productions using large-scale	
17:00-17:25	plants with hydrothermal treatment	
	Takeshi Sako, Shizuoka University, Japan	
17:25-17:50	Title: Bio-Fuels: Need of the hour	
	Satindar Kaur, Guru Nanak Dev University, India	
Panel Discussion 17:50-18:00		
	Day 1 Concludes	

Day 2 October 19, 2018 Conference Hall: Diefenbaker

	Keynote Forum
09:00-09:30	Title: Biofuel & Bioenergy in the energy mix
	Anumakonda Jagadeesh, Nayudamma Centre for Development Alternatives, India
09:30-10:00	Title: Advanced Biofuels: Opportunities and challenges
07.00-10.00	Lorenz Bauer, LJBill Chemical Consulting, USA
10:00-10:30	Title: Cascade utilization of biomass waste for the prodction of high quality BDF whose
	price is competitive to petro-diesel
	Yasuaki Maeda, Osaka Prefecture University, Japan
	Networking & Refreshment Break 10:30-10:50
10:50-11:20	Title: Syngas cleaning and characterization
	Ange Nzihou, IMT Mines Albi, France
	Panel Discussion 11:20-11:35
Sassians, Biaa	nergy Biorefineries Biogas
	Deepika Awasthi, Lawrence Berkeley National Laboratory, USA
Session chan.	Title: Conversion of methane to bio-products by an engineered microbial platform
11:35-12:00	
	Deepika Awasthi, Lawrence Berkeley National Laboratory, USA
12:00-12:25	Title: Development of a simplified model for design of CHP systems to operate on residual, low-value feedstocks
12:00-12:25	Jennifer Littlejohns, National Research Council Canada, Canada
	Title: Biosynthesis of the platform chemical 3-hydroxypropionate
12:25-12:50	Guang Zhao, Chinese Academy of Sciences, China
	Lunch Break 12:50-13:50
	Title: Concept and challenges of modern biorefineries
13:50-14:15	Alex Michine, MetGen, Finland
	Title: Biomasss tar removal using wet packed-bed scrubber
14:15-14:40	Samira Lotfi, National Research Council Canada, Canada
_	Panel Discussion: 14:40-15:00
	Young Researcher Forum
	Title: Valorisation of rice straw by using it as a substrate for production of cellulolytic-
15:00-15:20	hemicellulolytic enzyme cocktail and second generation ethanol
	Jaspreet Kaur, Panjab University, India
	Title: Co-pyrolysis of synthetic oily waste containing heavy metals: Influence of
15:20-15:40	operational conditions on the oil recovery and heavy metal immobilization
	Yuan Tian, University of Northern British Columbia, Canada
15:40-16:00	Title: Mixture design of wastes hydrolysis by amylase, xylanase and cellulase rich extracts
	Vanessa Elisa Pinheiro, Universidade de São Paulo, Brazil
	Networking & Refreshment Break 16:00-16:20

16:20-16:40 Title: Sustainability assessment of arid crops for the American southwest bioeconomy Hailey Summers, Colorado State University, USA

	naney sommers, Colorado State Oniversity, OSA	
	Panel Discussion 16:40-16:55	
	Poster Presentations 16:55-17:45	
P 01	Title: Biodiesel fuel synthesis using dolomite as catalyst	
	Egle Sendzikiene, Aleksandras Stulginskis University, Lithuania	
P 02	Title: Syngas upgrading to SNG: Demonstration units in Europe	
	F Javier Escudero Sanz, IMT Mines Albi, France	
P 03	Title: Small farms and biogas production in Brazil	
	Bruno Henrique Crespo Porto, Brasília University, Brazil	
P 04	Title: Cleaning of a renewable energy source with vitreous waste and natural zeolite	
	membranes	
	Lianys Ortega Viera, Technological University of Havana, Cuba	
P 05	Title: Preparation and characterization of biomass carbon-based solid acid catalysts for	
	the esterification biodiesel from marine algae	
	Abdulaziz A Al-Saadi, King Fahd University of Petroleum and Minerals, Saudi Arabia	
Best Poster Certification 17:45-18:00		

Day 2 Concludes...

Day 3 October 20, 2018

Conference Hall: Diefenbaker

Sessions: Algae	e Biofuels Biodiesel Renewable Energy Food Vs Fuels Debate
Session Chair: S	Seema Singh, Sandia National Laboratories, USA
09:00-09:25	Title: Scaling-up bio-diesel blending with high speed diesel by exploring new feedstock to substitute the growing demand of fossil fuel to ensure a greener planet
	Shantanu Gupta, Indian Oil Corporation Limited, India
	Title: A comparative study of biocrude production from two marine microalgae biomass
09:25-09:50	produced in large scale raceway pond
	Probir Das, Qatar University, Qatar
	Title: Assessment of lipid productivity and biodiesel quality prediction in Chlorella
09:50-10:15	sorokiniana and Botryococcus spp
	Dolly Wattal Dhar, ICAR-Indian Agricultural Research Institute, India
10:15-10:40	Title: Suncor Energy – Sustainable development based on innovation
10.15-10.40	Mario Ochoa, Suncor Energy Inc., Canada
	Networking & Refreshment Break 10:40-11:00
	Title: Adding waste scrap iron to enhance anaerobic digestion of sewage sludge and
11:00-11:25	production of methane
	Yaobin Zhang, Dailan University of Technology, China
11:25-11:50	Title: Production of a universal plant-based substrate system for cellulase activity assays
11.20-11.00	Kathleen Hefferon, Cornell University, USA
	Title: Compatibility of sealing materials with biofuels and biodiesel heating oil blends at
11:50-12:15	different temperatures
	Margit Weltschev, The Federal Institute for Materials Research and Testing, Germany
	Title: Study of crustaceans and bivalves residue as catalyst in the synthesis of biojet fuel
12:15-12:40	and biodiesel
	Claudia C Cardoso, Federal Rural University of Pernambuco, Brazil
12:40-13:05	Title: Streamlining of forest flow for lasting and long-term bio-based economy
	Matts Lilja, Tracy of Sweden AB, Sweden
	Panel Discussions & Closing Ceremony 13:05-13:15
	Lunch Break 13:15-14:15
	Refreshment Break 16:00-16:20