

# ProBioRefine 2021

International workshop on system analysis and technologies for biorefineries



## Program

Thursday May 6<sup>th</sup>, 2021 – Day 1

9:30 – 10:00	Seyed S. Mansouri & John Woodley	Welcome address
<b>Session I - Global perspectives on bioeconomy</b>		
10:00 -10:30	Christos Maravelias	A Systems Engineering View of Biofuels and the Bioeconomy
10:30 - 11:00	David Chiaramonti	Biorefining in the context of the EU and International policies: opportunities and challenges
11:00 -11:30	Solange I. Mussatto	Sustainable solutions for advanced biorefineries
11:30 - 12:00	Peter Fantke	Assessing environmental sustainability to support a bio-based economy
Lunch break		
<b>Session II – Sustainability implementation in biorefineries</b>		
13:00 – 13:30 (6pm Thailand)	Suttchai Assambumrungrat	Bio-Circular-Green Economy Model - Action in Thailand
13:30 -14:00	Morten Ambye Jensen	Sustainable production of proteins from grass and legumes in a green biorefinery - development from pilot scale to commercial implementation
14:00 – 14:30	Jesper Ahrenfeldt	SkyClean biorefinery concept
14:30 – 15:00	Ondrej Masek	Integration of biomass pyrolysis and biochar in biorefineries
Break		
<b>Session III - Biotechnology and bioeconomy</b>		
15:30 – 16:00	Irini Angelidaki	Biotechnology as a Tool for Capturing and Recycling CO <sub>2</sub>
16:00 – 16:30	Xavier Flores-Alsina	Model-based assessment of carbon fluxes in a full-scale industrial water treatment system
16:30 – 17:00 (11:30 Brasil)	Aline Machado de Castro	Increasing value of by-products from biodiesel and bioethanol industries through biotechnological routes
17:00		Closing of day 1

**Friday May 7<sup>th</sup> , 2021 – Day 2**

09:15 – 09:30		Intro to second day
<b>Session IV – Design tools and technologies for biorefineries</b>		
09:30-10:00 (16:30 Seoul)	Jay H Lee, Seongwhan Kang	GIS based design and evaluation of biorefinery supply chain
10:00- 10:30 (20:00 Auckland)	Saeid Baroutian	Recovery of flavour and bioactive compounds from New Zealand’s native trees
10:30-11:00 (16:30 China)	Dehua Liu	A commercial demonstration of Biorefinery of Lipids - coproduction of Biodiesel and 1,3-Propanediol
11:00 -11:30	Anker Degn Jensen	Enhancing bio-oil quality and energy recovery by atmospheric hydrodeoxygenation of wheat straw pyrolysis vapors using Pt and Mo-based catalysts
Lunch break		
<b>Session V – Industry perspectives</b>		
12:30 - 13:00	Bent Sarup	Pretreatment for Hydrotreated Vegetable Oil Production
13:00 – 13:30	Niels Bech	<i>Equinor</i> - Co-processing of Pyrolysis Liquids at Refineries: Challenges and opportunities
13:30 - 14:00	Hans-Martin Friis Møller	Kalundborg Forsyning A/S
14:00 – 14:30	Per Møller	Kalundborg Symbiosis
14:30 – 15:00	Christian Beenfeldt	<i>Biotech city Kalundborg</i>
<b>Session VI – Process intensification and integration</b>		
15:30 – 16:00 (10:30 am Brazil)	Fernando Pellegrini Pessoa	SENAI CIMATEC Competence Center in Chemical and Biochemical Process Intensification Engineering
16:00 – 16:30 (9am Mexico)	Mauricio Sales-Cruz	Comprehensive assessment of a 2G bioethanol biorefinery: Process Intensification
16:30 – 17:00 (9:30 am Alabama)	Mario Eden	Process Intensification for Scalable Desulfurization of Biogas
17:00		Wrap up of 6 <sup>th</sup> ProBioRefine