



European bioeconomy university

EBU Scientific Forum

22-23 September 2021

- Preliminary program -

Program Overview

Day 1- Wednesday 22 September 2021: Public event					
10:00– 11:00 am	Welcome note & Podium discussion				
11:00 –12:30 am	Plenary Session I: EBU research and education projects				
12:30 – 1: 30 pm	Lunch break				
1:30 – 3:00 pm	Parallel Session I				
	<table border="1"> <tr> <td>Bioeconomy-related business models and sustainable entrepreneurship</td> <td>From biomass to biobased products</td> <td>Sustainable biobased resources and ecosystem services for the bioeconomy</td> <td>The integrative systems approach for the innovative bioeconomy</td> <td>Educate system changers I: novel educational concepts and required skills profiles</td> </tr> </table>	Bioeconomy-related business models and sustainable entrepreneurship	From biomass to biobased products	Sustainable biobased resources and ecosystem services for the bioeconomy	The integrative systems approach for the innovative bioeconomy
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3:00 – 3:30 pm	Break				
3:30 – 5:30 pm	Parallel Session II				
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6:00- 8:00 pm	Reception and networking in a virtual online space				

Day 2- Thursday 23 September 2021: EBU internal event	
9:00– 10:30 am	Plenary Session II: Bioeconomy strategies
10:30 –11:00 am	Workshops introduction
11:00 –11:30 am	Break
11:30 am – 1:00 pm	Parallel Workshops: Joint projects
1:00 – 2:00 pm	Lunch Break
2:00 – 6:00 pm	Parallel Workshops: Joint projects

Preliminary Detailed Agenda

Wednesday, 22 September 2021

Welcome note and Podium discussion		Public event
10:00– 11:00 am	Welcome note Prof. Dr. Stephan Dabbert, President of the University of Hohenheim	
	Podium Moderator: Marios Avraamides, Coordinator of Commission’s Knowledge Centre for Bioeconomy, JRC	
	Prof. Dr. Hubert Hasenauer, Rector, University of Natural Resources and Life Sciences (BOKU)	
	Prof. Dr. Stephan Dabbert, President of the University of Hohenheim	
	Prof. Gilles Trystram, General Director, AgroParisTech- National Institute of Technology for Life, Food and Environmental Sciences	
	Prof. Francesco Ubertini, Rector, University of Bologna, University of Bologna	
	Prof. Tapio Määttä, Academic Rector, University of Eastern Finland	
	Prof. Dr. Arthur Mol, Rector, Wageningen University and Research	

Plenary Session I		Public event
11:00 –12:30 am	Growing industrial crops on marginal land – MAGIC Prof. Dr. Benoit Gabrielle, AgroParisTech- National Institute of Technology for Life, Food and Environmental Sciences (tbc)	
	Novel biobased value chains for Europe – developed and demonstrated by GRACE Dr. Andreas Kiesel, University of Hohenheim	
	Unique reactivity of cellulosic materials mediated by surface-confined water, University of Natural Resources and Life Sciences Dr. Marco Beaumont, University of Natural Resources and Life Sciences	
	Research Flagship Forests-Human-Machine Interplay (UNITE) Prof. Jyrki Kangas, University of Eastern Finland	
	Magnificent - Microalgae as a Green source for Nutritional Ingredients for Food/Feed and Ingredients for Cosmetics by cost-Effective New Technologies Prof. Dr. Maria Barbosa, Wageningen University and Research	
	BIObec - Preparing the creation of Bio-Based Education Centres to meet industry needs and boost the contribution of the bioeconomy to societal challenges Prof. Dr. Davide Viaggi, University of Bologna	

Parallel Session I

Public event

1:30 – 3:00 pm	Bioeconomy-related business models and sustainable entrepreneurship Chair: Prof. Dr. Davide Viaggi, University of Bologna
1:30 – 1:48 pm	Role of multinational enterprises in industry development in emerging market: Uruguayan forest sector Dr. Irina Mihailova, University of Eastern Finland
1:48 – 2:06 pm	Efficiency Enhancement in Arable Farming in Hohenlohe based on Nutrient Recovery from Farm Manure: Agriplus Hohenlohe Andrea Bauerle, University of Hohenheim
2:06 – 2:24 pm	External enablement of sustainability-oriented new venture creation: Entrepreneurial opportunities in the sustainable circular bioeconomy Sebastian Hinderer, University of Hohenheim
2:24 – 2:42 pm	Entrepreneurial orientation as a factor influencing collaboration within bioeconomy clusters Nunzia Gabriella Fasolino, University of Bologna
2:42 – 3:00 pm	Developing traditional ARA model to better capture the interlinkages between actors, resources and activities within the diversified business environment: Case-evidence from forest-based bioeconomy Dr. Sara Fraccastoro, University of Eastern Finland (tbc)
1:30 – 3:00 pm	From biomass to biobased products Chair: Prof. Dr. Luisa Trindade, Wageningen University and Research
1:30 – 1:48 pm	Extractive bioconversion process for the production of bio-based organic acids: an integrated biological and separation model Pedro Arana-Agudelo, AgroParisTech
1:48 – 2:06 pm	Cascading PROcesses to extract and valorise proteins and bioactive molecules from Legumes, Fungi and Coffee agro-industrial side streams - THE PROLIFIC project Prof. Dr. Annalisa Tassoni, University of Bologna
2:06 – 2:24 pm	Conditions for a bioeconomy transformation- Increased use of wood in construction Dr. Jaakko Jussila, Helsinki University
2:24 – 2:42 pm	Designing sustainable biobased processing networks Dr. Ellen Slegers, Wageningen University and Research
2:42 – 3:00 pm	Edible basidiomycetes mediated bioprocess upcycles food side streams in a circular economy – cases study acid whey and pulse serum Prof. Dr. Yanyan Zhang, University of Hohenheim
1:30 – 3:00 pm	Sustainable biobased resources and ecosystem services for the bioeconomy Chair: Prof. Dr. Benoit Gabrielle, AgroParisTech
1:30 – 1:48 pm	Agricultural biomass at local scales: which managements and utilizations between compartmentalization, competition or integration? Prof. Philippe Lescoat, AgroParisTech (tbc)
1:48 – 2:06 pm	QUABIO project: application of simple and complex indexes to assess soil quality under conventional and organic management Dr. Martina Mazzon, University of Bologna
2:06 – 2:24 pm	Perennial wildflower mixtures for bioenergy and biobased products - Current status and future prospects Dr. Moritz von Cossel, University of Hohenheim

2:24 – 2:42 pm	Influence of environmental conditions on growth parameters, grain yield and oil quality of five Amaranth genotypes Dr. Meylin Terrel Gutierrez, University of Hohenheim
2:42 – 3:00 pm	Site impacts nutrient translocation efficiency in intra- and interspecies Miscanthus hybrids on marginal lands Elena Magenau, University of Hohenheim
1:30 – 3:00 pm	The integrative systems approach for the innovative bioeconomy Chair: Dr. Martin Greimel, University of Natural Resources and Life Sciences
1:30 – 1:45 pm	Bioeconomy and circular economy in the forest sector: a systematic review Dr. Miguel Rivière, AgroParisTech
1:45 – 2:00 pm	Potentials, subsidies and tradeoffs of cellulosic ethanol in the EU Prof. Dr. Franziska Schuenemann, University of Hohenheim
2:00 – 2:15 pm	The potential of the Living Lab approach in forest bioeconomy Dr. Maxence Arnould, AgroParisTech (tbc)
2:15 – 2:25 pm	DigiFoodTwin: Digital Biophysical Twins in Food Processing Prof. Dr. Christian Krupitzer, University of Hohenheim
2:25 – 2:35 pm	Digital twins as an enabler of a safe, sustainable, and decentralized production of biological resources Dr. Evelyn Reinmuth, University of Hohenheim
2:35 – 2:45 pm	The smart, digitized food supply chain with machine learning Prof. Dr. Christian Krupitzer, University of Hohenheim
2:45 – 3:00 pm	Discussion
1:30 – 3:00 pm	Educate system changers: novel educational concepts and required skills profiles Tools in Bioeconomy education Chair: Gerlinde van Vilsteren, Wageningen University and Research
1:30 – 1:50 pm	ABBEE – the Bioeconomy MOOC platform Dr. Gerlinde van Vilsteren, Wageningen University and Research
1:50 – 2:05 pm	Collection of awareness-raising, communication and education tools from European sources Marco Maria Grande, University of Bologna
2:05 – 2:20 pm	New education project which promotes transition to an ecologically sustainable society. Solutions to biodiversity questions are sought through networked co-operation between universities Elli Hämynen, University of Eastern Finland
2:20 – 2:35 pm	Shaping the concept of bioeconomy in participatory projects - An example from the post-graduate education in Finland Dr. Jukka Tikkanen, University of Eastern Finland
2:35 – 2:50 pm	Insights on jointly organized Bioeconomy specialisation education in Eastern Finland – Life-long learning formats Dr. Piritta Torssonen, University of Eastern Finland
2:50 – 3:00 pm	Discussion

Parallel Session II

Public event

3:30 – 5:30 pm	Educate system changers: novel educational concepts and required skills profiles Chair: Prof. Dr. Iris Lewandowski, University of Hohenheim
3:30 – 4:30 pm	Bioeconomy Qualification programs
3:30 – 4:30 pm	EBU label Lina Marcela Mayorga Duarte, University of Hohenheim FOEBE Tbd, AgroParisTech Pitch Bioceb: an Erasmus Mundus Joint Master Degree addressing the global Bioeconomy need for new skills Prof. Stéphanie Baumberger, AgroParisTech Pitches of Bioeconomy Master education programs of the EBU members Tbd
4:30 – 5:30 pm	Networks on Bioeconomy education
4:30 – 5:30 pm	BE CHANGE: A community of practice inspiring and encouraging bioeconomy education for systemic change Dr. Sophie Urmetzer, University of Hohenheim ICA Community of Practice for Bioeconomy Education in Europe (CoP Bio-Edu) Han van Osch, CoP Bio-Edu Bioeconomy Education towards Sustainability and Creativeness in the BioEast Region Prof. Dagnija Blumberga, Riga Technical University
3:30 – 5:30 pm	Research short presentations I Chair: tbd
3:30 – 4:05 pm	Forestry Forest Ecosystem Services in policy – an example of Swedish forest policy Dr. Camilla Widmark, Swedish University of Agricultural Sciences (tbc) Strong sustainability: a review of forest-based bioeconomy literature Satu Helenius, University of Eastern Finland Innovative bioeconomy and forest ecosystem services Dr. Camilla Widmark, Swedish University of Agricultural Sciences (tbc) National regimes and drivers of change in multi-national pulp industries – case Uruguay and Finland Anu Laakkonen, University of Eastern Finland So Many Myths, So Much Uncertainty: Can EU LULUCF Policy Manage the Pressure? Dr. David Ellison, Swedish University of Agricultural Sciences (tbc)
4:05 – 4:25 pm	New crops and biobased resources

	<p>Acrocomia: a multipurpose palm with high potential for becoming a sustainable industrial crop for the bioeconomy in Latin America Ricardo Vargas-Carpintero, University of Hohenheim</p> <p>Miscomar+: Exploration and Optimisation of Miscanthus Cultivation under Marginal Conditions” Eva Lewin, University of Hohenheim</p> <p>Environmental impact and nutritional value of seaweed-based food products Dr. Ellen Slegers, Wageningen University and Research</p>
4:25 – 4:50 pm	Environmental dimension in the bioeconomy
	<p>Automated Data Acquisition for farm LCA Jan Weik, University Hohenheim</p> <p>Valorisation of ecosystem services for a more sustainable intensification of agricultural biomass production in the growing bioeconomy: Development of an integrated assessment approach Bastian Winkler, University of Hohenheim</p> <p>Urban gardening and domestic compost production as climate change mitigation practices in a city environment Dr. Luca Mariani, University of Natural Resources and Life Sciences</p>
4:50 – 5:30 pm	<p>Value chain organization</p> <p>Analysis of bio-based value chains for accelerating the transition towards a sustainable bioeconomy Stephanie Lang, University of Hohenheim</p> <p>DAGFOR-Digital tools for agricultural advisors in agroforestry systems Beatriz Herrera, University of Hohenheim</p> <p>Challenges and opportunities of circular biomass management in the agro-food-waste system – An application of the innovation platform approach in a nutrient-saturated area Sabine Neuberger, Rhine-Waal University of Applied Sciences</p>
3:30 – 5:30 pm	<p>Research short presentations II Chair: tbd</p>
3:30 – 4:15 pm	<p>Process</p> <p>Biobased molecule production from renewable resources using an integrated strategy of fermentation/bioconversion and on-line extraction processes Dr. Marwen Moussa, AgroParisTech</p> <p>Showing the Capabilities of Experimental and Computational Fluid Dynamics in Bio-Process Intensification: the Case of a Stirred Bioreactor for Bio-H₂ Production Dr. Francesco Maluta, University of Bologna</p> <p>Sustainable Industrial Chemistry for Innovation in Bio-Refinery Processes Dr. Martina Milano, University of Bologna</p> <p>Urease inhibitory potential and soil ecotoxicity of pyrolysis liquids</p>

	<p>Dr. Chiara Samorì, University of Bologna (tbc)</p> <p>In stream extractive fermentation for intensified 2-phenylethanol production from renewable resources by <i>Kluyveromyces marxianus</i> Dr. Ana-Karen Sanchez-Castaneda, AgroParisTech</p> <p>Comparative environmental assessment of HMF produced from fructose and lignocellulosic biomass Jan Lask, University of Hohenheim</p> <p>A comparative economic evaluation of scenarios for the extraction of an oil containing fucoxanthin and EPA from <i>P. tricornutum</i> using FPA-PBR with artificial light or natural sunlight in Germany. Sebastian Weickert, University of Hohenheim</p>
4:15 – 4:40 pm	<p>Products</p> <p>Eco-friendly synthesis of (R)-3-hydroxydecanoic acid and analogues: New green pathway to highly potent elicitor(s) of plant immune system Dr. Amandine Flourat, AgroParisTech</p> <p>Green polymerization of readily accessible levoglucosenone-derived monomers: towards fully renewable functional crosslinked materials Dr. Sami Fadlallah, AgroParisTech</p> <p>Simultaneous extraction and enzymatic hydrolysis from mustard bran for the recovery of sinapic acid Valentin Reungoat, AgroParisTech</p>
4:40 – 5:10 pm	<p>Side streams</p> <p>Effect of the pH on the Extraction of Sinapic Acid Derivatives from Mustard Seed Meal Dr. Morad Chadni, AgroParisTech</p> <p>Myco-conversion of agro-waste into by-products Prof. Dr. Ornella Francioso, University of Bologna</p> <p>Polyhydroxyalkanoates from waste as a sustainable platform for the production of materials and chemicals Prof. Dr. Paola Galletti, University of Bologna</p> <p>Valorization of hempseed meal by the extraction of phenolic compounds Emilie Isidore, AgroParisTech</p>



Thursday, 23 September 2021

Plenary Session II		EBU internal event
09:00 –10:30 am	Moderator: tbd	
	Bioeconomy activities of the EBU alliance partners University of Hohenheim, Iris Lewandowski University of Natural Resources and Life Sciences, tbd University of Eastern Finland, tbd Wageningen University and Research, tbd University of Bologna, tbd AgroParisTech- National Institute of Technology for Life, Food and Environmental Sciences, tbd	
	Bioeconomy activities of the EBU associated partners European Bioplastics European Forest Institute Swedish University of Agricultural Sciences Warsaw University of Life Sciences BIOEAST – Central and Eastern European initiative for knowledge-based agriculture, aquaculture and Forestry in the bioeconomy	

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10:30 –11:00 am	Workshops introduction	
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