

1st Summer School Zelcor

'Zero waste biorefineries: technical advances and sustainability assessment'

2 – 6 September 2018, Wageningen, the Netherlands

DAY 0 Sunday September 2, 2018	
18:30-19:00	Registration
19:00-20:00	Welcome drinks & preparing poster exhibition

DAY 1 Monday September 3, 2018			
09:00-09:30	Registration		
09:30-10:00	Plenary session	Welcoming and introductive presentation	Stéphanie Baumberger & Richard Gosselink
10:00-11:00	Plenary session	Lignocellulosic feedstocks for biorefineries	Stephan Piotrowski
11:00-11:30	Coffee/ tea break & Poster Presentation		
11:30-12:30	Plenary session	Aqua Feed market, an opportunity for waste valorization	Alex Obach
12:30-12:45	Group photo!		
12:45-13:30	Lunch		
13:30-14:30	Plenary session	Lignocellulosic biorefineries with integrated side stream valorization: reality or future?	Ed de Jong
14:30-15:30	Plenary session	Functionalities and markets for lignins	Jairo Lora
15:30-16:00	Coffee/ tea break & Poster Presentation		
16:00-17:00	Plenary session	Cosmetics needs in active biomolecules	Fabio Apone
17:00-18:00	Plenary session	Use of biomolecules for extending food shelf-life through Active Packaging	Jérome Vachon
18:45-20:30	Dinner @ 'Beau' Hotel Restaurant		

DAY 2 Tuesday September 4, 2018			
08:45-09:45	Plenary session	Potential of bacteria and synthetic biology for lignin conversion	Tim Bugg
09:45-10:45	Plenary session	Microbial consortia and waste valorization	Guillerma Hernandez
10:45-11:15	Coffee/ tea break & Poster Presentation		
11:15-12:15	Plenary session	Insect potential in biorefineries	Nathalie Berezina
12:15-13:15	Plenary session	Thermochemical processes for the production of platform biomolecules	Daan van Es
13:15-14:00	Lunch		
14:00-15:00	Plenary session	Technical and "green" potential of ionic liquids	Guy Marlair & Betty Cottyn
15:00-16:00	Plenary session	Tool box for tuning lignin structure	Stéphanie Baumberger
16:00-16:30	Coffee/ tea break & Poster Presentation		
16:30-17:30	Plenary session	Analytical tools review for lignin characterization	Richard Gosselink
17:30-18:30	Plenary session	Humins: production and progress in structural investigation	Annelie Jongerius

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DAY 3 Wednesday September 5, 2018			
08:45-09:45	Plenary session	Value-chain environmental assessment	Harriëtte Bos
09:45-10:45	Plenary session	Taking into account techno-economic criteria in the design of biomass conversion processes	Elke Breitmayer
10:45-11:15	<i>Coffee/ tea break</i>		
11:15-12:15	Plenary session	LCA and environmental aspects	Xun Liao
12:15-13:15	Plenary session	"Closing the loop" in the context of an integrated biorefinery: A sweet sorghum-based discussion	Iulian Boboescu
13:15-14:00	<i>Lunch</i>		
14:30-15:00	Travel to Heelsum		
15:00-17:00	Site visit @ Schut Paper - Heelsum		
17:00-17:30	Travel to Wageningen Campus – Wageningen University and Research		
17:30-19:30	<i>Course Dinner @ Impulse Wageningen Campus</i>		
19:30-20:30	Plenary session	Bio-based Economy	Rafael Luque
20:30-21:00	Travel to WICC		

DAY 4 Thursday September 6, 2018			
08:45-09:15	Case studies	Introduction	Richard Gosselink
09:15-10:30	Case study 1	Pulp & paper mill including full valorization of side streams	
09:15-10:30	Case study 2	Lignocellulosic biorefinery with focus on production of biochemicals including full valorization of side streams	
10:30-11:00	<i>Coffee/ tea break</i>		
11:00-12:00	Continue on the case studies		
12:00-13:00	Short presentation on the case study per group		
13:00-13:45	<i>Lunch</i>		
13:45-14:15	Closing Session		Stéphanie Baumberger & Richard Gosselink