

# 4th CIRCUL-A-BILITY CONFERENCE

Re-thinking Packaging for Circular & Sustainable Food Supply Chains of the Future

11.-13. September 2024, Aarhus, Denmark



DAY 1 - 11 SEPTEMBER 2024		
8:30-9:00	REGISTRATION	
9:00-10:40	<b>OPENING SESSION</b>	<b>Chair: Giancarlo Colelli, Co-Chair of Circul-a-bility, Universita'di Foggia, Italy</b>
9:00-9:10	WELCOME	Giancarlo Colelli, Universita'di Foggia, Italy
9:10-9:20	What is sustainable food packaging? The Circul-a-bility definition	Milena Corredig, Chair of Circul-a-bility, Aarhus University, Denmark
9:20-10:00	Keynote: A circular economy for plastic packaging	Bahar Koyuncu, Ellen MacArthur Foundation
10:00-10:40	Keynote: Adapting to change: Achieving sustainability through life cycle perspectives in packaging systems.	Rafael Auras, School of Packaging, Michigan State University, USA.
COFFEE BREAK		
11:15-12:05	<b>SESSION 1 BIO-BASED PACKAGING (1)</b>	<b>Chair: Marit Pettersen, NOFIMA -Norwegian Institute of Food, Fisheries and Aquaculture Research, Norway</b>
11:15-11:45	Invited talk: Review and assessment of fully molded cellulose (paper) bottle production technologies.	Alexander Bardenstein, DTI - Danish Technological Institute, Denmark
11:45-12:05	Contributed talk: Biodegradable PVOH-based barrier coatings on kraft paper for sustainable food packaging applications	Paola Scarfato, University of Salerno, Italy
LUNCH BREAK, POSTER SESSION and NETWORKING		
13:10- 14:00	<b>SESSION 2</b>	<b>Chair: Fatima Pocas,</b>

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	<b>BIO-BASED PACKAGING (2)</b>	<b>Universita Catolica Porto, Portugal</b>
13:10-13:40	Invited talk: Innovative approaches to valorizing food side streams: Transforming Swiss waste into sustainable packaging materials	Selcuk Yildirim, Zurich University of Applied Sciences, Switzerland
13:40-14:00	Contributed talk: Innovative sustainable food active packaging films through bioactive pectic polysaccharides from agricultural waste valorization	Esther Rincón, Universidad de Córdoba, Spain
<b>COFFEE BREAK, NETWORKING and POSTER SESSION</b>		
<b>14:30-16:30</b>	<b>SESSION 3 CIRCULARITY, ECO-DESIGN AND END OF LIFE</b>	<b>Chair: Milena Corredig, Aarhus University, Denmark</b>
14:30-15:00	Invited talk: Turning challenges into opportunities: Food-centric approach for compostable bioplastic packaging	Ilke Uysal-Unalan, Aarhus University, Denmark
15:00-15:30	Invited talk: Spectroscopic techniques enablers of sustainable food packaging	Begonya Marcos Muntal, IRTA - Institute of Agrifood Research and Technology, Spain
15:30-15:50	Contributed talk: Re3-Plast; Reduce, Reuse and Recycle - a new Green Platform project	Marit Kvalvag Pettersen, NOFIMA -Norwegian Institute of Food, Fisheries and Aquaculture Research, Norway
15:50-16:10	Contributed talk: A review of LCA tools used to optimize the food packaging supply chain	Brecht Van Der Hoeven, Pack4Food, Belgium
16:10-16:30	Contributed talk: Strategies for future decarbonized food cold supply chains	Igor Karlovits, Danfoss Power Solutions, Denmark
<b>FREE EVENING</b>		

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## DAY 2 - 12 SEPTEMBER 2024

08:15-08:45			REGISTRATION	
08:45-09:55			<b>SESSION 4 STUDIES ON SUSTAINABLE FOOD PACKAGING</b>	<b>Chair: Begonya Marcos, IRTA, Spain</b>
08:45-9:15			Invited talk: Sustainable packaging for meat and fish products	Paula Quinterio, University of Aveiro, Portugal
09:15-09:35			Contributed talk: Vegan edible coatings based on fresh produce waste with active properties for preserving perishable fruits	Luana Carnaval, Technological University Dublin, Ireland
09:35-09:55			Contributed talk: Multi-dimensional sustainability assessment (MuDiSa); coffee packaging examples	Maxence Paillart, Wageningen Food & Biobased Research, Netherlands
COFFEE BREAK				
10:30-12:00			<b>SESSION 5 SAFETY OF FOOD PACKAGING</b>	<b>Chair: Matthijs Dekker, Wageningen University</b>
10:30-11:00			Invited talk: Sustainability and risk assessment	Cristina Nerin, Zaragoza University, Spain
11:00-11:20			Contributed talk: Migration of non-intentionally added substances in packaging of fresh cut vegetables	Sandra Pati, University of Foggia, Italy
11:20-11:40			Contributed talk: A study on migration from cork-polypropylene composites	Fatima Pocas, Universidade Católica Portuguesa, Portugal
11:40-12:00			Contributed talk: Chemical food safety and hazard assessment of a circular mono-plastic material film with improved barrier properties	Bina Bhattarai, Technical University of Denmark, Denmark
LUNCH BREAK, POSTER SESSION and NETWORKING				

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<b>13:00-14:40</b>	<b>SESSION 6 MARKETING AND CONSUMER SCIENCE</b>	<b>Chair: Krisztina Dornyei, Hungary</b>
13:00-13:30	Invited talk: It is a matter of fairness: How partitioned pricing strategies can shift preferences for reusable food packaging	Polymeros Chrysochou, Aarhus University, Denmark
13:30-14:00	Invited talk: Consumer behavior results for a reuse packaging project in Finland	Angelos Balatsas Lekkas, University of Vaasa, Finland
14:00-14:20	Contributed talk: Research to reality: Survey and focus group analysis of starch-protein blend bioplastics—exploring applications and public perception	Jade Stanley, South East Technological University, Carlow, Ireland
14:20-14:40	Contributed talk: Insights into sustainability benchmarkings for food and non-food packaging in the DACH region	Michelle Klein, University of Applied Sciences Vienna, Austria
<b>COFFEE BREAK, NETWORKING and POSTER SESSION</b>		
<b>15:30-18:00</b>	<b>SESSION 7 REUSE</b>	<b>Chairs: Polymeros Chyrsochou, Aarhus University, Denmark &amp; Selcuk Yildirim, Zurich University of Applied Science, Switzerland</b>
15:30-16:00	Invited talk: How to make reuse systems the new normal?	Fernando Rodriguez-Mata, New ERA - New European Reuse Alliance, Belgium
16:00-16:30	Invited talk: Transparency in Reuse: Environmental impact of our large-scale Reuse System with verified data	Davide Mazzanti, Einfach Mehrweg, Germany
16:30-17:30	Panel- Perspectives on reuse	<u>Jeanette Morath</u> ReCIRCLE, Switzerland <u>Diana Schiffer</u> LCA Center, Netherlands <u>Simon Rossau</u> City of Aarhus, Denmark Fernando Rodriguez-Mata





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		New ERA - New European Reuse Alliance, Belgium <u>Daive Mazzanti</u> Einfach Mehrweg, Germany
17:30-18:00	Q&A and discussion	
<b>CONFERENCE DINNER</b> Place: Spise Lauget, Aarhus, 20:00 “Rotake Reusable” project in Aarhus - Simon Rossau, Aarhus Municipality		

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DAY 3 - 13 SEPTEMBER 2024		
08:15-08:45	REGISTRATION	
08:45-09:45	<b>SESSION 8 NEW PACKAGING REGULATIONS</b>	<b>Chair: Alexander Bardenstein, Danish Technological Institute (DTI), Denmark</b>
08:45-9:15	Invited talk: Packaging and Packaging waste directive	Diana Schiffer, LCA Center, Netherlands
9:15-09:45	Q&A and discussion	
COFFEE BREAK		
10:15-12:45	<b>SESSION 9 RECYCLING TECHNOLOGIES &amp; END OF LIFE DESIGN</b>	<b>Chair: Ilke Unalan, Aarhus University, Denmark</b>
10:15-10:45	Invited talk: EFSA's New Guidance on mechanical Recycling of PET	Emmanouil Tsochatzis EFSA - European Food Safety Authority, Italy
10:45-11:15	Invited talk: 50 years of experience in industrial recycling of plastic: what has changed in a product developer portfolio?	Maria Dahl, Aage Vestergaard Larsen, Denmark
11:15-11:45	Invited talk: Chemical recycling -where are we	Pieter Billen, University of Antwerp, Belgium
	PANEL PRESENTATION	<b>Chairs: Ilke Unalan, Aarhus University, Denmark; Alexander Bardenstein, DTI - Danish Technological Institute, Denmark</b>
11:45-12:15	Panel presentations	<u>Emmanouil Tsochatzis</u> European Food Safety Authority, Italy <u>Maria Dahl</u> Aage Vestergaard Larsen, Denmark <u>Pieter Billen</u> University of Antwerp, Belgium <u>Peter Sommer Larsen</u> Danish Technological Institute, Denmark
12:15-12:45	Q&A and Discussion	
CLOSING		



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LUNCH from 12:45 to 13:30

14:00

OPTIONAL SITE VISITS TO Food Packaging Labs at AU FOOD SCIENCE  
& Consumer and Behaviour Lab ([www.cobelab.au.dk](http://www.cobelab.au.dk)) at AU MAPP center