Re-Thinking Packaging for *Circular* and *Sustainable* Food Supply Chains of the *Future* Online

26-29 September 2021

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CONFERENCE PROGRAM(*)

Sunday, September 26th <u>17:00 – 17:15</u> Opening/Greetings (Milena Corredig, Aarhus University, Chair of CA19124) 17:15 – 18:00 Prologue Talk 1: "Microplastics an invisible risk" Margherita Ferrante (University of Catania, Italy) 18:00 - 18:45 Prologue Talk 2: "Everything connects us to the Ocean" Andrea Morello (Sea Shepherd Italia) Monday, September 27th 09:00 - 09:30Greetings (Pierpaolo Limone, Rector of the University of Foggia)

00.00 00.00	
	Session 1A (Chair: <u>Giancarlo Colelli</u>)
09:30 – 10:00	Keynote 1: "Packaging requirements for reducing food losses" Victor Rodov (ARO Volcani Institute, Israel)
10:00 – 10:15	Impact of different packaging strategies on the shelf-life of semi-hard cheese - <u>Ana G. Azevedo</u> , Portugal (130)
10:15 – 10:30 10:30 – 10:45	Effects of retail compostable packages on retaining fruit and vegetable quality - <u>Ron Porat</u> , Israel (053) Tailor-made packaging strategies to extend the shelf life of fresh pork belly - <u>Begonya Marcos-Muntal</u> , Spain
10:45 – 11:00	(083) The applicability of PHBV thermoformed trays to pack fresh food products under modified atmosphere packaging - <u>An Vermeulen</u> , Belgium (113)
<u>11:00 – 11:30</u>	Coffee break
11:30 – 12:00	Session 2A (Chair: <u>Matthijs Dekker)</u> Keynote 2: "Active and intelligent packaging as tool to improve food quality and safety" <u>Rafael</u> Gavara (CSIC-IATA, Spain)
12:00 – 12:15	A novel breathable package system to improve the fresh fig (<u>Ficus carica</u> 'Dottato') shelf life – <u>Attilio Matera</u> , Italy (070)
12:15 – 12:30	Bioactive antioxidant coating for active poly(lactic acid) film packaging- polyphenols affect coating structure and their release in a food simulant – <u>Frédéric Debeaufort</u> , France (052)
12:30 – 13:30	Stakeholder Forum (Chair: <u>Emmanouil Tsochatzis</u>) Introduction: "Towards sustainable food packaging legislation from the prospective of EU policymakers" <u>Anna Trubetskaya</u> (University of Limerick, Ireland) Forum contributors: <u>Bastiaan Schupp</u> , DG Health and Food Safety - European Commission <u>Eddo Hoekstra</u> , JRC, EURL-FCM - European Commission
<u>13:30 – 14:30</u>	Lunch break
<u>14:30 – 15:00</u>	Poster session
15:00 – 15:30	Session 3A (Chair: <u>Loredana Incarnato)</u> Keynote 3: "Challenges on obtaining high oxygen and water barrier compostable films" <u>Rafael</u> Auras (Michigan State University, USA)
15:30 – 15:45 15:45 – 16:00	Organocatalytic acetylation of pea starch - <u>Natalia Prieto Vidal</u> , Denmark (99) Design and development of innovative high performance PVOH/PLA bio-coatings for food packaging - <u>Annalisa Apicella</u> , Italy (098)
16:00 – 16:15	Improving starch-based biomaterial properties by addition of spent frying potato oil - Silvia Petronilho, Portugal (090)
16:15 – 16:30	Multilayer barrier paperboard based on nanocellulose and biodegradable thermoplastics - <u>Johanna Lahti</u> , Finland (134)

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16:30 – 16:45	NeoPalea: bio-based material for packaging applications - <u>Leonardo Conti</u> , Italy (054)
16:45 – 17:00	Investigation of stereocomplexed poly(lactide acid)/layered double hydroxides for high-performance mono-
	material packaging solutions – <u>Qi Chen</u> , Denmark (128)

<u>17:00 – 17:30</u> Coffee break

	Session 2B (<u>Begonya Marcos-Muntal</u>)
17:30 – 17:45	Use of gallic acid based oxygen scavenger to prevent the discoloration of processed meat products under
	industrial conditions - Selcuk Yildirim, Switzerland (116)
17:45 – 18:00	Influence of an innovative, biodegradable multilayer active packaging on "pesto" sauce characteristics during storage – <i>Virginia Glicerina</i> , Italy (097)
18:00 – 18:15	Bioactive complexes of chitosan and green coffee bean or artichoke extracts for food packaging applications - <i>Ramune Rutkaite</i> , Lithuania (105)
18:15 – 18:30	Diffusion of thyme, cinnamon and oregano essential oils in different nanocellulose matrices – <u>Sara Casalini</u> , Italy (059)

Tuesday, September 28th

Session 4 (Chair: Elena Arranz) 09:00 - 09:30 Keynote 4: "The challenge of NIAS migration from emerging food packaging materials" Cristina Nerin (University of Zaragoza, Spain) 09:30 - 09:45 Deactivation kinetics of inoculated SARS-CoV-2 on a patented cardboard activated with natural antimicrobials - Lorenzo Siroli, Italy (103) 09:45 - 10:00 Next generation screening methodologies for the advanced and comprehensive monitoring of intentionally and non-intentionally added substances in food contact materials - Chrysoula Kanakaki, Greece (073) 10:00 - 10:15 Urinary levels of endocrine-disrupting chemicals, including triclosan and 4-nonvlphenol in School-Aged Children of Southern Italy population with a Plastic-Free Lifestyle – Francesco Sessa, Italy (086) Microplastics releases by packaging, a new risk for consumers – Eloise Pulvirenti, Italy (114) 10:13 - 10:30 10:30 - 10:45 Chemical testing of mechanically recycled polyethylene terephthalate - Emmanouil D. Tsochatzis, Denmark (055)10:45 - 11:00 Risk assessment in use of recycled polyethylene from post-consumer waste as food contact material - Tanja Radusin, Norway (119) 11:00 - 11:30 Coffee break Session 5 (Chair: Victoria Krauter) 11:30 - 12:00 Keynote 5: "Consumer Trends and Perceptions toward Sustainable Packaging Solutions" Polymeros Chrysochou (Aarhus University, Denmark) 12:00 - 12:15 Science and media framing the future of plastics in a transition to the circular economy - Ivanna Colijn, The Netherlands (102) 12:15 - 12:30 Analysis of sustainable packaging attributes in the confectionary sector - Anna-Sophia Bauer, Austria (112) 12:30 - 12:45 Navigating sustainable packaging solutions for food waste minimization in downstream activities - Carlos Martin-Rios, Switzerland (096) Sustainability message outlook impacts consumer response toward sustainable packaging - Polymeros 12:45 - 13:00 Chrysochou, Denmark (084) 13:00 - 13:15 Twitter is garbage: what kind of packaging waste materials do people tweet about? Exploration of #zerowaste hashtag usage - Greg Ganczewski, Poland (133) 13:15 - 13:30 Intention to purchase milk packaged by biodegradable packaging: evidence from italian consumers -Antonella Cammarelle, Italy (068) <u>13:30 – 14:30</u> Lunch break

<u>14:30 – 15:00</u> Poster session

Session 8 (Chair: Selçuk Yildirim)



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15:00 – 15:30	Keynote 8: "Disposable or Returnable Packaging: searching optimal solution using fuzzy mathematical approach" <u>Péter Böröcz</u> (Széchenyi István University, Hungary)
15:30 – 15:45	Sense-Fruit: a fruit simulator for advanced monitoring of postharvest supply chains - <u>Seraina Schudel</u> , Switzerland (074)
15:45 – 16:00	The effect of transportation vibration to the microbiological status of bottled mineral water - <u>Renáta Tihanyi-</u> Kovács, Hungary (111)
16:00 – 16:15	Reducing food waste by quality controlled logistics using intelligent packaging - <u>Matthijs Dekker</u> , The Netherlands (075)
	Session 3B (Chair: Selçuk Yildirim)
16:15 – 16:30	Development of cellulose-based packaging films from the residues after alginate extraction - <u>Vera Cebrián-</u> Lloret, Spain (106)
16:30 – 16:45	ByPro3D – Can agri-food and forest byproducts be reused in the ecological production of 3D food packaging? - Idalina Gonçalves, Portugal (088)
16:45 – 17:00	Functional biobased barriers for sustainable and renewable packaging materials – <u>Samir Kopacic</u> , Austria (062)
<u>17:00 – 17:30</u>	Coffee break
	Session 2C (Chair: <u>Fátima Poças</u>)
17:30 – 17:45	Polysaccharide-based active coatings for fresh and minimally processed fruits - <u>Marina Ramos-Santonja</u> , Spain (104)
17:45 – 18:00	Design concept of an enzymatic time-temperature integrator device for chromatic quality prediction of cherries - <u>Pedro D. Gaspar</u> , Portugal (125)
18:00 – 18:15	Development of essential oil incorporated polymer PLA/PBAT active film for food packaging applications - Kalpani Y. Perera, Ireland (101)
18:15 – 18:30	When nanochemistry meets food packaging: development of active materials based on polyoxymetalates and nanocelluloses - <i>Filomena Silva</i> , Spain (107)

Wednesday, September 29th

	Session 7 (Chair: <u>Philip Scholten</u>)
09:00 - 09:30	Keynote 7: "One Bin To Rule Them All" Michael Shaver (University of Manchester, UK)
09:30 – 09:45	Recycling of polypropylene by supercritical CO ₂ for extraction of contaminants from beverage cups - <u>Srishti</u> <u>Singh</u> , Portugal (072)
09:45 – 10:00	Deinking efficiency of industrial waste and invasive plant papers for paper bags - <u>Mija Sežun</u> , Slovenia (071)
	Session 1B (Chair: Frédéric Debeaufort)
10:00 – 10:15	Impact of polylactic acid packages on microbiological spoilage of fresh produce: A case study with cherry tomatoes – <u>Salvatore D'Aquino</u> , Italy (121)
10:15 – 10:30	Effect of humidity on ethylene removal kinetics of various scavengers in active packaging - <u>Spoorthy</u> <u>Shenoy</u> , Germany (117)
10:30 - 10:45	Advances to save the packaging plastic film in Grapefruits - Rafael Torregrosa-Coque, Spain (056)
10:45 – 11:00	Zein based antimicrobial edible coating for 'granny smith' apple quality - <u>Zinash A. Belay</u> , South Africa (060)
<u>11:00 – 11:30</u>	Coffee break
	Session 3C (Chair: <u>Ilke Unalan</u>)
11:30 – 11:45	Biopolymer-based electrically conductive biocomposite films for food packaging applications - <u>Ana Barra</u> , Portugal (092)
11:45 – 12:00	Utilization of chestnut shell lignin in alginate films - Ece Sogut, Turkey (064)
12:00 – 12:15	High solids, solvent free modification of engineered poly-saccharides for food packaging applications - <u>Athanasios D. Porfyris</u> , Greece (109)
12:15 – 12:30	<i>Bio-based platelet-shaped biochars as reinforcements in biopolymers for food packaging applications – Jon <u>Trifol</u>, Finland (079)</i>



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- 12:30 13:30 Industry forum (Chair: Milena Corredig, Aarhus University) **Contributors:** Thomas Bak Thellesen, Faerch A/S, Denmark Tim Van Caelenberg, Puratos, Belgium <u>13:30 – 14:30</u> Lunch break 14:30 - 15:00 Poster session Session 6 (Chair: Marit Kvalvåg Pettersen) 15:00 - 15:30 Keynote 6: "The most sustainable packaging: how to define your best individual solution" Peter Désilets (Pacoon GmbH, Germany) Assessing the environmental sustainability of packaging on seafood supply chains: A critical review - Cheila 15:30 - 15:45 Almeida, Portugal (115)
- Food waste and eco-design: synergy between food and packaging LCA Andrea Casson, Italy (076) 15:45 - 16:00
- <u>16:00 16:30</u> Final Remarks & Conference conclusions (Milena Corredig & Giancarlo Colelli)