

Bio-based polymers at the forefront of innovation in materials science

BERTINORO (FC, ITALY) 12-14 APRIL 2023

PROGRAM

Wednesday 12 April 2023	
16.00–19.00	REGISTRATION
20.00–22.00	WELCOME PARTY
Thursday, 13 April 2023	
8.00–9.00	Registration and preparation for poster session
9.00–9.15	Opening of conference and of sessions
9.15–10.00	Plenary presentation: EC's policy framework on biobased, biodegradable and compostable plastics: opportunities and challenges. (Dr. Silvia Forni, European Commission, Directorate-General for Environment (DG ENV))
10.00–10.15	From waste to field: an example of circular economy approach (<i>Giuseppina Cerrato</i>)
10.15–10.30	Sustainable furan-based copolyesters: enzymatic synthesis and characterization (<i>Martyna Sokołowska</i>)
10.30–10.45	Poly (diglycerol adipate) variants as Enhanced Nanocarriers in Drug Delivery Applications (<i>Benedetta Brugnoli</i>)
10.45–11.00	Biodegradable Disulfide Polymers Synthesized by a "Green" Process (<i>Kristof Molnar</i>)
11 – 11.30 COFFEE BREAK	
11.30–12.15	Plenary presentation: Design for recycling and/or (bio)degradation (prof. Minna Hakkarainen, KTH Royal Institute of Technology, Sweden)
12.15–12.30	Bio-inspired eugenol-based polymers with antioxidant and antimicrobial properties (<i>Iolanda Francolini</i>)
12.30–12.45	Characterization of P(3HB-co-3HV) with different 3HV content: Effect on properties, processability and miscibility with mcl-PHA (<i>Sara Alfano</i>)
12.45–13.00	Interlayer bonding of polylactic acid produced by material extrusion 3D printing (<i>Csenge Tóth</i>)
13.00–13.15	NADES-derived beta cyclodextrin-based polymers for the production of sub-micrometric fibrous mats and carbons via electrospinning (<i>Claudio Ceccone</i>)
13.15–13.30	Eco-friendly surface modification of polyvinyl alcohol fibers and application for dye removal using Doehlert experimental design (<i>Eya Ben Khalifa</i>)
13.30 – 15.00 LUNCH BREAK	
15.00–15.45	Plenary presentation: New cellulose chemistry from a sustainability perspective: renewability is not enough (prof. Michael A. R. Meier, Karlsruhe institute of Technology (KIT))
15.45–16.00	Esters of nature-identical engineered polysaccharides as new materials with tunable transport properties for packaging and membrane applications (<i>Maria Grazia De Angelis</i>)



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16.00–16.15	Natural polysaccharides as active coatings of the materials potentially useful in the bone and/or cartilage tissue regeneration process (<i>Sylwia Magdziarz</i>)
16.15–16.30	Fluorescent chitosan probes towards the detection of microplastics in complex environmental samples (<i>Eugenio Giovannetti</i>)
16.30–16.45	Chitosan/pectin-rich vegetable waste composites as active packaging of dry foods (<i>Danila Merino</i>)
16.45–17.00	Rheology and thermal analysis for optimising the performance and processing window of PHB copolymers (<i>Tiziana Bardelli</i>)
17.00- 17.15	Effects on Mechanical Properties of bio-based materials (<i>Marco Coletti</i>)
17.30–19.00 POSTER SESSION & APERITIF	

FRIDAY, 14 April 2023	
9.00–9.45	Plenary presentation: Synthesis and end-of-life tailoring of furan-based polymers: how to target sustainable polymers! (dr. Andreia F. Sousa, CICECO, University of Aveiro, Portugal)
9.45-10.00	Fabrication and properties of PLLA-apatite composites using melt mixing techniques (<i>Konrad Szustakiewicz</i>)
10.00-10.15	Fiber bundle cell modelling of the relationship between the structural and the mechanical properties of nano- and hybrid composites with a poly(lactic acid) matrix (<i>Roland Petrény</i>)
10.15–10.30	The effect of crystallinity on the degradation of polylactic acid under UV irradiation (<i>Ábris Dávid Virág</i>)
10.30–10.45	Green and biodegradable chitin/collagen sponges for wound dressing (<i>Devis Montroni</i>)
10.45–11.00	The environmental sustainability of biobased polymers: a review of life cycle assessment studies (<i>Simone Maranghi</i>)
11 – 11.30 COFFEE BREAK	
11.30–12.15	Plenary presentation: From agro-waste and agro-industrial residues to bioactive additives and new polymeric materials: a contribution to the circular economy concept (Prof. Annamaria Celli, University of Bologna)
12.15–12.30	Thermally protected enzyme for degradable on-demand polymers (<i>Angela Romano</i>)
12.30–12.45	Multidrug-resistant biofilm-forming microorganisms as a threat in industry and medicine (<i>Łukasz Łopusiewicz</i>)
12.45–13.00	LASER-based biogenic carbon quantification: a novel method for polymers and miscellaneous coated materials (<i>Gustavo Adrián Defeo</i>)
13.00 – 15.00 Final light lunch	



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