Scientific Program

FIRST GREEN-MAP SUMMER SCHOOL on:

Designing bio-based polymers for circular economy: from green monomers to green polymers

19-21 September 2022, Nanotechnology Center, Al. Piastów 45, Szczecin, POLAND

	19 September 2022	20 September 2022	21 September 2022
9.00-9.15	Welcome addresses: Miroslawa El Fray, Project Coordinator		
	Session I – Synthesis of bio- based monomers and polymers	Session III – Functionalization and High Performance of Bio- based Polymers	Session IV – Industrial Production and Applications of Bio-based Polymers Session
9.15 – 10.00	From 'ad-hoc' synthesized to commercially available materials: an overview on biobased polymers (Miroslawa El Fray)	Cold atmospheric pressure plasma: a green technology for functional modification of polymers (Gulia Laghi)	Fatty acid-based building blocks for circular plastics economy (Angela Smits)
10.00 – 10.45	Green polymer chemistry: enzyme catalysis (Judit Puskas)	Green meets circular Francesco Picchioni	Foam injection moulding of eco- friendly products (Christian- Andre Keun)
10.45 – 11.00 COFFEE BREAK			
11.00 – 11.45	KEYNOTE INVITED Enzymatic synthesis of furan-based polymers Katja Loos	Biodegradability and Compostability of Biobased Polymers (Wanda Sikorska)	Rapid prototyping as future for industrial production (Kolos Molnar)
11.45 – 12.30	Production of polyhydroxy- alkanoates, a family of bio-based and biodegradable polymers (Marek Kowalczuk)	Functional additives and coatings for packaging materials (Artur Bartkowiak)	Recent trends in the plastic food packaging (Marlena Roguszewska)
12.30 – 14.30 LUNCH BREAK			
14.30 – 15.15 15.15 – 16.00	Session II – Materials Design, Physico-chemical, and Microstructural Analysis of Biobased Polymers KEYNOTE INVITED Environmentally friendly polymers. Capture of carbon dioxide and its application for synthesis Paweł Parzuchowski Molecular characterization of biobased and biodegradable polymers (Grazyna Adamus)	TA Instruments Presentation Muhammad Harris "Application of thermal and mechanical analysis in characterizing biopolymers" Exhibition of TA Instruments equipment	GREEN-MAP Consortium Meeting
16.00 – 16.15 COFFEE BREAK			
16.15 – 17.00 17.00 – 17.45	Structure-property- biodegradability relationship of polymers (Maria Letizia Focarete) Synthesis and characterization of chitosan derivatives - challenges and problems (Agnieszka Piegat)	POSTER SESSION	GREEN-MAP Consortium Meeting
19:00		Get Together at "Nowy Browar Szczecin"	