



Final Program

ISBPS2023

**International Summit on
BioPolymers and Polymer Science**

May 11-12, 2023 | Brussels, Belgium



Day 01, May 11, 2023

09:00-09:30		On Spot Registrations
Chair		Geoffrey Robert Mitchell , Polytechnic of Leiria, Portugal
Co-Chair		Dieter E. Kaufmann , Clausthal University of Technology, Germany
09:30-10:10	P	Title: The Dilemma for Polymer Science-Materials and Processing Geoffrey Robert Mitchell, Polytechnic of Leiria, Portugal
10:10-10:50	P	Title: Plant-Based Protein Adhesives: What we know, What we don't know and How to know these Adhesives Better Joseph J. Marcinko, Polymer Synergies LLC, USA
10:50-11:05		Refreshment Breaks
11:05-11:45	P	Title: Industrial Development of Biodegradable and Bioderived Polymers for a more Sustainable Future Wei Gao, Fellow at Dow, USA
11:45-12:25	P	Title: BioAdditives for Plastics Rudolf Pfaendner, Division Director-Fraunhofer Institute for Structural Durability & System Reliability, Germany
12:25-12:55	K	Title: Sustainable Surface Tuning of Wood and Plant Fibres by Covalent Modification Dieter E. Kaufmann, Clausthal University of Technology, Germany
12:55-13:55		Group Photo Lunch
13:55-14:25	K	Title: Plants to Plastix-Rethinking How we Use Our Natural Resources Sharina Perry, Founder/Inventor-Utopia Plastix, USA
14:25-14:55	K	Title: Electrohydrodynamic Atomization-A New Versatile Route for Designing Smart Textiles Fabien Salaun, GEMTEX-Textile Research Laboratory, France
14:55-15:25	K	Title: Polysorb®-A Versatile Monomer for Improving Thermoplastics and Thermosetting Properties, Case Study of Polyesters René Saint-Loup, Lestrem Research Center, France

15:25-15:55	K	Title: Towards Environmental Sustainability of Super Polymers for 3D Printing
		Alessandra D'Anna, R&D Scientist and Compound Expert-Roboze, Italy
15:55-16:10		Refreshment Breaks
16:10-16:40	K	Title: N6L-Functionalized Particles for Nanomedicine in Pancreatic Cancer Therapy: A Promising Option
		Sabrina Belbekhouche, Institute of Chemistry of Materials Science, France
Scientific Sessions		Bio-Based Materials; Polymers Role in Biology; Polymer Plastics & their Roles
Session Chair		Rene Saint-Loup, Lestrem Research Center, France
16:40-17:00	I	Title: Influence of the Characteristics of Biopolymers with the Diffusion of the Different Active Principles in Microencapsulation
		Manuel-Jose Lis Arias, INTEXTER-UPC, Spain
17:00-17:20	I	Title: What Real Time Image Capture Can bring to Your Polymer Thermal Analysis Results?
		Olivier Savard, Hitachi High-Tech Analytical Science Ltd, United Kingdom
17:20-17:40	I	Title: Diatoms and their Expanding Research Horizons
		Shristy Gautam, BIAM, CEA Cadarache, France
17:40-18:00	I	Title: Dynamic Mechanical Analysis (DMA) of Human Hair Fibres to Understand the Effects of Ethnicity, Temperature, and Relative Humidity on their Viscoelasticity
		Jakob Adams, Dyson Institute of Engineering and Technology, United Kingdom
18:00-18:20	I	Title: Effect of Chitosan Coating Enriched with Some Natural Extracts on Vegetable, Fruit and Meat Quality during Storage
		Najla Trabelsi, Center of Biotechnology of Borj Cedria, Tunisia
Poster	P01	Title: Thermosets and Thermoplastics Derived from Lignin
		Cristian Zavala, Naval Air Warfare Center Weapons Division, USA
Poster	P02	Title: Cell Metabolic Engineering to Produce Microbial Bioplastic
		Isabel Vital-Vilchis, The University of Sheffield, United Kingdom
Closing the Conference for Day 1		

Day 02, May 12, 2023

Chair	Geoffrey Robert Mitchell, Polytechnic of Leiria, Portugal
Co-Chair	Dieter E. Kaufmann, Clausthal University of Technology, Germany
09:30-10:10	P Title: Technical Consideration for the Transformation of Sustainable Feedstock at Industrial Scale for the Plastic Industry Oscar Vernaez Hernandez, Polymer Specialist/R&D Manager-NESTE, Germany
10:10-10:50	P Title: Innovations in Recycling Technologies to Create Food Grade Recycled Polyolefins from Post Consumer Plastics Edward Kosior, CEO & Founder-Nextek Ltd, United Kingdom
10:50-11:05	Refreshment Breaks
11:05-11:35	K Title: Complete Chemical Recycling of Reinforced Epoxy Composites Dieter E. Kaufmann, Clausthal University of Technology, Germany
11:35-12:05	K Title: Unraveling the Capacities of Stochastic Modeling in Radical Polymerization Systems through the Example of Multi-Functional Biopolymers Dimitrios Meimaroglou, University of Lorraine, France
12:05-12:35	K Title: Sol/Gel Transition of Thermoresponsive Hyaluronan: From Liquids to Elastic and Sticky Materials Dominique Hourdet, Sorbonne University, France
12:35-13:05	K Title: Glass Fibre Reinforced PEKK Laminates and GF/PEKK based Titanium Fibre Metal Laminates Subjected to Low Velocity Impact Zhongwei Guan, Executive Director-Technology Innovation Institute, Abu Dhabi
13:05-14:05	Group Photo Lunch
14:05-14:35	K Title: Micro Knitting Yarn Biocomposites (Metallic Fibers, Organic Fibers and Biodegradable Resin) for the Smart Textile Market Liliana Rubio, Founder-PMO Polymer Business Intelligence, Brazil

14:35-15:05	K	Title: Directed Self-Assembly of Close-Packed Lipid A-phosphate Phases Henrich H. Paradies, The University of Salford, Joule Physics Laboratory, United Kingdom
15:05-15:35	K	Title: Dissolution Kinetics of Redispersible Polymer used in the Production of Powder Paint Nevin Karamahmut Mermer, Kalekim Chemicals Co, Turkey
15:35-16:05	K	Title: Sustainable Materials for Electrical Insulation Application: PU Renewable Raw Materials: Bio-based Polyols and Polyisocyanates, Using of Bio-Based Packaging & EU-Regulations Iryna Savych, Head of Materials & Process Engineering, Germany
16:05-16:20	Refreshment Breaks	
16:20-16:50	K	Title: Printed Polymers for Wearable Technology Haider Raad, Director-Engineering Physics Program, Xavier University, USA
Scientific Sessions	Roles of Polymers in Industry and Economy; Polymer Science & it's Applications; Polymer Electronics; Polymers in Medicine	
Session Chair	Liliana Rubio, Founder-PMO Polymer Business Intelligence, Brazil	
16:50-17:10	I	Title: Electrospun and Printed 3D Scaffolds with Biomimetic Features and Growth Factor Delivery Potential for in Vitro Maintenance of Human Bone Cells Diana Portan, University of Patras, Greece
17:10-17:30	I	Title: Molecularly Imprinted Polymers for the Selective Valorisation of Phenolic Compounds from Winemaking Residues Amir Bzainia, University of Porto, Portugal
17:30-17:50	I	Title: Design of Molecularly Imprinted Cellulose-Synthetic Particles via ATRP to Valorize Flavonoids from Olive Leaves Catarina Pereira Gomes, University of Porto, Portugal
17:50-18:10	I	Title: From Structure and Property Development of Reversible Polymer Networks to Self-Healing Soft Robotic Applications Joost Brancart, Free University of Brussels, Belgium

18:10-18:30

I

Title: Bioinspired/Bionic-based Polymeric Materials for Triboelectric Nanogenerators

Naveen Tiwari, Marie-Curie Fellow-USC, Spain

Poster

P01

Title: In Situ Bioprocessing and Cytotoxic Assessment of Bacterial Cellulose with Silicon

Christopher G. P. Miller, Northumbria University, United Kingdom

Closing the Conference for Day 2



Next Event

ISBPS2024

International Summit on BioPolymers and Polymer Science

June 10-12, 2024 | Porto, Portugal