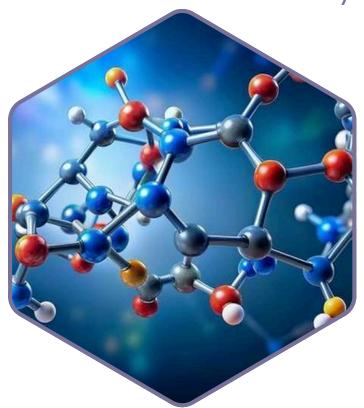


3rd International Summit on

Biopolymers and Polymer Science

Hotel NH Frankfurt Airport West, Frankfurt, Germany July 21–22, 2025





Final Program

ISBPS2025

		Day 01 July 21, 2025
09:00 - 09:30		On-Spot Registrations
Conference Chair		Geoffrey Robert Mitchell, Professor, Centre for Rapid and Sustainable Product Development, Portugal
Conference Co-Chair		Feng-Huei Lin , President-Formosa Associate of Regeneration Medicine, Dept-Biomed. Eng., National Taiwan University, Taiwan
		Plenary Talks
09:30 - 10:10	P	Title: Operando X-ray Scattering Measurements during Injection Moulding: Clues to Increasing Circularity
		Geoffrey Robert Mitchell, Professor, Centre for Rapid and Sustainable Product Development, Portugal
10:10 - 10:50	P	Title: Iron-doped Calcium Sulfide Magnetic Nanoparticles Surface Modified with PVP and SiO2 as Thermoseeds for Hyperthermia
		Feng-Huei Lin , President-Formosa Associate of Regeneration Medicine, Dept-Biomed. Eng., National Taiwan University, Taiwan
10:50 - 11:05		Refreshment Break
11:05 - 11:45	P	Title: Shaping the Future of Polymer Processing and Durability by using Biobased Stabilizers
		Elke Metzsch-Zilligen , Head of the Division Plastics - Fraunhofer Institute for Structural Durability & System Reliability LBF, Germany
11:45 - 12:25	P	Title: Plant-Based Protein Adhesives and Plant-Based Protein Hydrophobes the Conundrum of Water in Bio-Based Composites
		Joseph J. Marcinko, Principal Scientist & President - Polymer Synergies LLC, USA
12:25 - 13:05	P	Title: Latest Market Trends for Renewable Polymers from Biomass, CO2 and Recycling
		Michael Carus, Physicist, Germany
13:05 - 14:05		Group Photo / Lunch Break
		Keynote Talks
14:05 - 14:35	K	Title: From the T-string World of RNA to Genes and Curricula: T-society Self-similarity as a Turning Point in Earth's Natural History
		Magnus Magnusson, University of Iceland, Iceland

14:35 - 15:05	K	Title: Methodology for the Development of Essential Oil Microcapsules using Complex Coacervation with Biopolymers
		Manuel-Jose Lis Arias, INTEXTER-UPC, Spain
15:05 - 15:35	K	Title: Novel Polymer-based Approaches for Self-Assembly of mRNA-based Pharmaceuticals
		Heinrich Haas, Chief Technology Officer-NeoVac, Germany
15:35 - 16:05	K	Title: Process Development of Remote Atmospheric Pressure Plasma-Assisted Functionalization on Biodegradable Polymeric Textiles for Bone Tissue Engineering
		Wei-Yu Chen, Ming Chi University of Technology, Taiwan
16:05 - 16:20		Refreshment Break
		Invited Talks
		Invited laiks
16:20 - 16:45	I	Title: Process Optimization of Exopolysaccharide Production: An Iterative and Integrative Approach
		Venessa Dsouza, Technical University Munich, Campus Straubing, Germany
16:45 - 17:10	I	Title: Development of Dextran-Pluronic Thermo sensitive Hydrogel Containing Extracellular Vesicles from Adipose Derived Stem Cells for Nerve Repair
		Cheng-Hao Yeh, National Taiwan University, Taiwan
17:10 - 17:35	I	Title: XLANCE® EOL Yarn: Tailoring Elasticity while Advancing Textile Sustainability
		Lorenza Gardella, Head of R&D-XLANCE® SRL, Italy
17:35 - 18:00	I	Title: Assessing the Green Shift: Comparing Conventional and Biopolymer Packaging
		Bruna Gabriela Mendes Machado , PIEP – Centre for Innovation in Polymer Engineering, Portugal
18:00 - 18:25	I	Title: Innovative Biomedical Materials and Advanced Animal Models for Infection disease: Bridging Research and Clinical Application
		Shu-Wei Huang, National Taitung University, Taiwan
18:25 - 18:50	I	Title: Development of Innovative Thermotropic Materials for Cost- Effective Solar Energy Collectors
		Nurten Sahan, Marie Curie Postdoctoral Fellow, UK

Poster	P-O1	Title: Comparative Study of Chain Extenders for the Reactive Extrusion of PLA
		Franka Malsch, Fraunhofer UMSICHT, Germany
Poster	P-O2	Title: Co-polymerization of Carbon Dioxide with Propylene Oxide by Heterogeneous and Homogeneous Catalysts to Produce Low Molecular Weight Polycarbonate Ether Polyols
		Afsoon Farzan , Technical Research Center of Finland (VTT), Finland

End of Day 01

		Day 02 July 22, 2025
		Plenary Talks
09:30 - 10:10	P	Title: Multivalent Targeted Protein Degradation Polymeric Chimeras for Cancer Treatment Hsin-Cheng Chiu , National Tsing Hua University, Taiwan
10:10 - 10:50	P	Title: Fermentative Production of Monomers for Polymers Walter J. Koch , Director Biochemical Technology, Biotech for Net Carbon Zero-BASF, Germany
10:50 - 11:05		Refreshment Break
11:05 - 11:45	P	Title: Superior Nonlinear Optical Response of Single Crystalline Bio-Reachable Polymers Satoshi Okamoto, Team Director of RIKEN, Japan
11:45 - 12:25	P	Title: Cradle to Cradle Design Innovations Albin Kaelin, Founder & CEO-EPEA Switzerland, GmbH, Switzerland
		Keynote Talks
12:25 - 12:55	K	Title: Polycarboxylate Ether as Super Plasticizers in Concrete, their Current Impact on CO2 Emissions and how to reduce them through Biopolymer Synthon Vincent Froidevaux, Saint-Gobain Construction Chemicals, France

12:55 - 13:55		Group Photo / Lunch Break
13:55 - 14:25	K	Title: Biodegradable Polycaprolactone for Cartilage Repair and Drug Delivery Applications Ming-Fa Hsieh, Chung Yuan Christian University, Taiwan
14:25 - 14:55	K	Title: Biopolymers Extracted from Food Waste for Packaging Dalila Hammiche , Editor-in-Chief-Biopolymer Applications journal, University of Bejaia, Algeria
		Invited Talks
14:55 - 15:20	I	Title: Using Biology to Create Improves Performance in Engineering Plastics: The Challenges & Successes
		Chris Schroder, Pegasus Materials, Netherlands
15:20 - 15:45	I	Title: From Waste to Value: Environmental and Economic Assessment of Biodegradable Shoe Shapers from Olive Pits
		Catarina Faria, PIEP – Centre for Innovation in Polymer Engineering, Portugal
15:45 - 16:00		Refreshment Break
16:00 - 16:25	I	Title: Operationalising an Integrated Holistic impact Assessment to Accelerate Safe and Sustainable Design (SSbD) Acceptance in the Plastic Value Chain
		Ines Costa, PIEP – Centre for Innovation in Polymer Engineering, Portugal
16:25 - 16:50	I	Title: Influence of Amorphous PHA on the Crystallization Behaviour and Rheological Properties of Semi-Crystalline PHA Blends: Key Insights for Foaming Potential Malvina Boutigny , University of Bayreuth, Germany
16:50 - 17:15	I	Title: Development of Beta-Cyclodextrin based MOFs for Volatile
		Molecule Stabilisation and Delivery Siddanth Saxena, INTEXTER-UPC, Spain
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17:15 - 17:40	I	Title: Innovative Applications of Injectable Hyaluronic Acid Hydrogels in Orthopedics
		Yu-Chun Chen, National United University, Taiwan

17:40 - 18:05

Title: Home Compostability of Thermoplastic Biocomposites under Laboratory Conditions: Multiscale Characterization and Bioaugmentation Strategy to Increase Biodegradability

Jules Bellon, UniLaSalle Polytechnic Institute, France

18:05 - 18:30

Title: Beyond the Surface: How Degradation Transforms Microplastic-Soil-Plant Interactions

Helen Gordillo, Free University of Berlin, Berlin

Poster

P-O3 Title: Polyhydroxyalkanoate Copolymer Production fro Brewery Wastewater via Mixed Microbial Cultures

Jeyran Ghased, Seoul National University of Science and Technology, South Korea

End of the Conference

