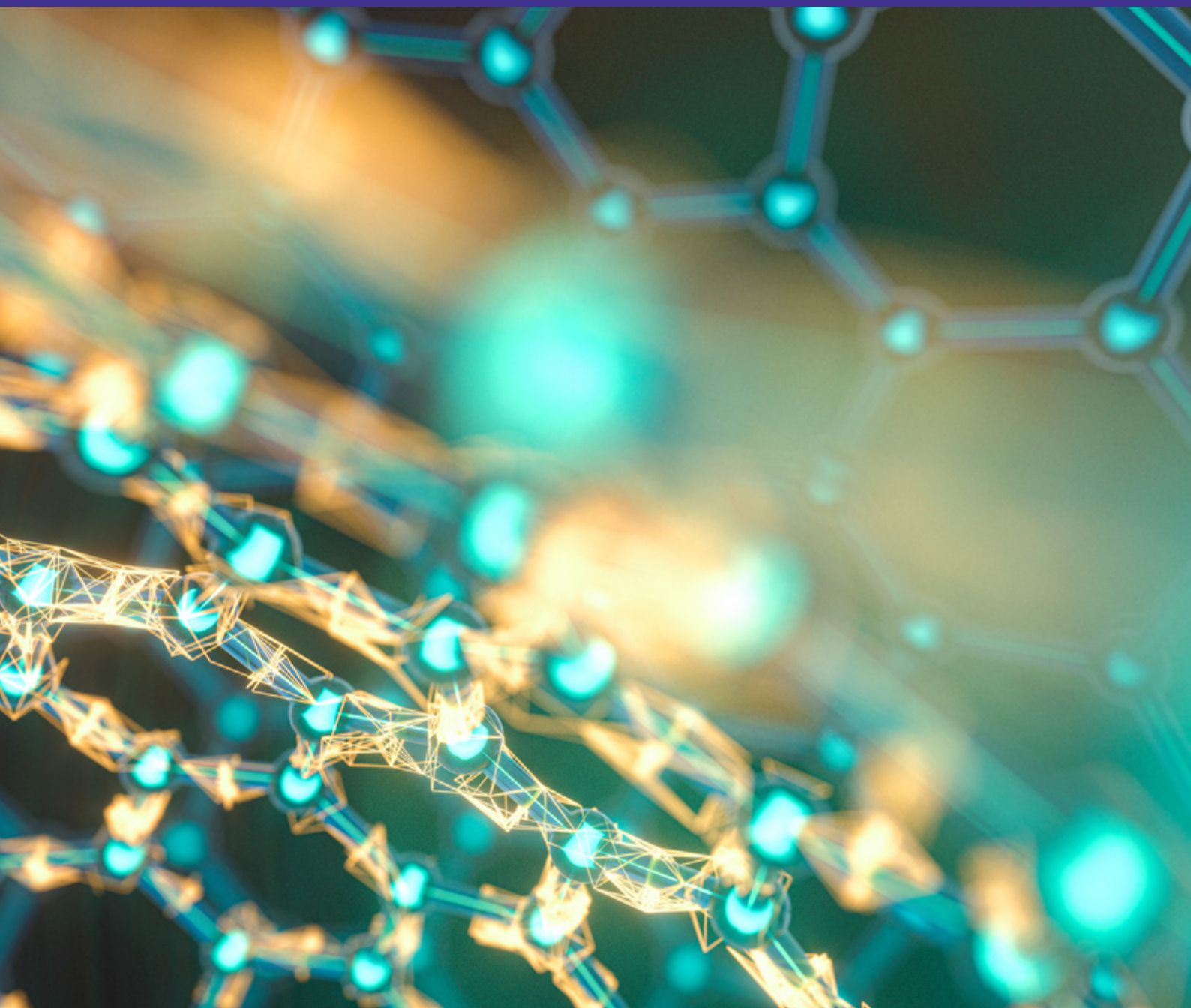


PPC-2023



3rd Global Conference On
**POLYMERS, PLASTICS
AND COMPOSITES**

Sep 11 - 12, 2023 at Barcelona, Spain



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INTERNET <https://polymers-plastics.org/>

Day-1 (September 11, 2023)

Hall - Sant Boi

Registrations Open (08.00-08.40)

Moderator:
Manuela Facchin,
Università Ca' Foscari Venezia, Italy

Opening Ceremony (08.40-09.00)

Keynote Talks

Thomas J. Webster,
Interstellar Therapeutics,
USA

09:00-09:30

Polymeric Biomaterials: What Has Gone Right, What Has Gone Wrong

Urs Meier,
Empa, Swiss Federal
Laboratories for Materials
Science and Technology,
Switzerland

09:30-10:00

Railway network arch bridge fully relying on CFRP hangers

Alberto José Coelho
Cotón,
Universidade de Santiago
de Compostela, Spain

10:00-10:30

3D printing of heterogeneous monolith catalysts and other catalytic devices: application in drug discovery

Group Photo & Refreshment Break (10:30-10:50)

Technical Session-I

THEMES:
Reinforced Plastics and Composites
Plastics Recycling Technology Landscape
Circular economy models

Session Chairs:
Olben Falco Salcines, *Univeristy of Oxford, United Kingdom*
Urs Meier, *Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland*

Brian Johnston , <i>University of Wolverhampton, United Kingdom</i>	10:50-11:10	Bioconversion of Plastic Waste and Waste Stream Separation to Create Value-Added Bioplastics
Beate Kummer , <i>Kummer umwelt:kommunikation GmbH, Germany</i>	11:10-11:30	New Sorting Technology for better recycling quotas and qualities
Olben Falco Salcines , <i>Univeristy of Oxford, United Kingdom</i>	11:30-11:50	Low- and high-velocity impact behaviour of composite laminates Insights of different numerical modelling approaches
Alberto Barranca , <i>AIMPLAS (Instituto Tecnológico del Plástico), Spain</i>	11:50-12:10	Chemical recycling alternatives for recycling of EoL composite and biocomposites materials
Rafael Miguel , <i>GAIKER Technology Center, Spain</i>	12:10-12:30	Recovery of Green Polyols from Rigid Polyurethane Waste by Catalytic Depolymerization
Manuela Facchin , <i>Ca' Foscari University of Venice, Italy</i>	12:30-12:50	Possible applications of Agri-food Wastes on bioplastics in Their Second Life for circular economy

Lunch Break @ Restaurant (12:50-13:50)

Technical Session-II

THEMES:
Polymeric Composites
Polymer Engineering and Processing
Polymer Synthesis and characterization

Session Chairs:
Christian Andrew Griffiths, *Swansea University, United Kingdom*
Nick Rowe, *CNRS France, France*

Christian Andrew Griffiths,
Swansea University, United Kingdom

13:50-14:10

Methods to Reduce Energy and Polymer Consumption for Fused Filament Fabrication 3D Printing

Taher Meydando, <i>Standard Profil Group, Turkey</i>	14:10-14:30	An experimental study on the derivation of the thermophysical properties of EPDM rubber during curing
Tarik Turkistanli, <i>Turkish Aerospace, Turkey</i>	14:30-14:50	Swelling Phenomenon in Rubber Weatherstrip Manufacturing Under Real Process Conditions Imposed in a Commercial Extrusion Line
Debasis Mohanty, <i>Dhenkanal Autonomous College, Dhenkanal, India</i>	14:50-15:10	Green Synthesis, Characterisation and Application of Some Novel Polymeric Nano Materials for Treatment of Contaminated Drinking Water and Industrial Effluents
Jean Andre Medina Martínez, <i>Pontifical Catholic University of Chile, Chile</i>	15:10-15:30	Novel poly(azomethine)s based on diphenylsiloxane and polythiophene moieties. Synthesis, characterization, optical and thermal properties
Shania Zehra Naqvi, <i>Advanced Nanoengineering Materials Laboratory, Kanpur, India</i>	15:30-15:50	Effect of coal fly ash cenosphere on the tan Delta properties of polyester resin composite
Refreshment Break (15.50-16:10)		
Nick Rowe, <i>CNRS France, France</i> & Patricia Soffiatti, <i>Federal University of Parana State, Brazil</i>	16:10-16:30	Soft meets hard: bioinspired concepts and applications from a climbing cactus
Alan Hase, <i>Saitama Institute of Technology, Japan</i>	16:30-16:50	Analysis of seizure-resistance-improvement mechanism of polymer additives in lubricating oils by acoustic emission sensing

Mitsuru Sasaki,
*Kumamoto University,
Japan*

16:50-17:10

Synthesis of silver nanoparticles/
poly(N-isopropylacrylamide)
composites for biomedical
applications using pulsed arc
discharge

**Víctor Manuel Serrano
Martínez,**
INESCOP, Spain

17:10-17:25

YRF: Bio-cellulosic extraction from
rice straw using steam explosion
method

Day 1 - Concludes

Day-2 (September 12, 2023)

Hall - Sant Boi

Moderator:
Shania Zehra Naqvi,
Advanced Nanoengineering Materials Laboratory, Kanpur, India

Technical Session-III

THEMES:
Bioplastics and Biopolymers
Biomedical and Biomimetic Composites

Session Chairs:
Sarit Sivan, *Braude College of Engineering, Israel*
Luís Pimentel Real, *National Laboratory of Civil Engineering – LNEC, Portugal*
John Love, *The University of Exeter, United Kingdom*

John Love,
*The University of Exeter,
 United Kingdom*

09:00-09:20

Synthetic biology for the production of polyhydroxy alkanoate bioplastic precursors in fermentative bacteria.

Helene Amedro,
Roquette Freres, France

09:20-09:40

Isosorbide: a bio-based monomer with multiple applications

Finian McCann,
*London South Bank
 University, United
 Kingdom*

09:40-10:00

Robotic 3D-printing of recycled thermoplastic structural components

Liudmyla Gryshchuk,
*Leibniz Institute for
 Composite Materials
 GmbH, Germany*

10:00-10:20

Bio-based composite epoxy foams for constructive applications

Miranda Fateri,
Aalen University, Germany

10:20-10:40

3D printing of lunar composites under lunar gravity condition

Refreshment Break (10:40-11:00)

Abdelhamid Boudiba, <i>Materia Nova, Belgium</i>	11:00-11:20	Sol-gel hybrid coatings as primer for enhancing adhesion and thermal resistance of polymer insulating materials for copper magnet wire
Sarit Sivan, <i>Braude College of Engineering, Israel</i>	11:20-11:40	Polyanhydride-based Nanoparticles for Controlled and time-scheduled Ocular drug delivery
Beate Kummer, <i>Kummer umwelt:kommunikation GmbH, Germany</i>	11:40-12:00	The new European database for chemicals of concern: How useful is SCIP for waste management?
Luís Pimentel Real, <i>National Laboratory of Civil Engineering – LNEC, Portugal</i>	12:00-12:20	Technics for Mitigation and Remediation to Prevent Radon Infiltration in Buildings
Paula do Patrocínio Dias, <i>University of São Paulo, Brazil</i>	12:20-12:40	Oven-Drying Microfibrillated Cellulose Covered with a Low Molecular Weight Copolymer for Dispersion in a Polymer Matrix
Lunch Break @ Restaurant (12:40-13:40)		
Dawid Stawski, <i>Lodz University of Technology, Poland</i>	13:40-14:00	Thermal Properties of Polylactide Nonwovens Modified with Thin Polymer-Metallic Layers
Yaqin Song, <i>China Pharmaceutical University, China</i>	14:00-14:20	P-doped iron-biochar composites activating heterogeneous Fenton reaction for superefficient degradation of sulfamethoxazole: Performance and mechanism

Poster Session & Refreshment Break (14:20-16:00)

Day-2 Conclusion and Closing Remarks

Poster Judges:

Thomas J. Webster, *Interstellar Therapeutics, USA*
Alberto José Coelho Cotón, *Universidade de Santiago de Compostela, Spain*

Stefan Dumitru Sava,
*Gheorghe Asachi Technical
 University of Iasi, Romania*

PPC-1

DMA investigation of the factors influencing the glass transition in 3D printed specimens of shape memory recycled PET

Aya M. Mostafa,
Kingston University, United Kingdom

PPC-2

Comparing the performance of two different fluorescent dyes in the development of fluorescent molecularly imprinted polymers for pepsin enzyme

Michela Arnoldi,
Politecnico di Milano, Italy

PPC-3

Mechanical effects of aging in silicone breast prostheses

Isabel Marín Beltrán,
*Centro de Ciências do
 Mar do Algarve (CCMAR),
 Portugal*

PPC-4

Bacteria from marine caves with potential to biodegrade petroleum-based and biobased microplastics

Yik Ting Chan,
*The University of Exeter,
 United Kingdom*

PPC-5

An Enzymatic Microplastic Filter for Washing Machines Developed by the Exeter iGEM Team

Yang Zhang,
Donghua University, China

PPC-6

Microelastic response mechanism of poly(butylene succinate)/microcrystalline cellulose composite monofilaments

Ting Wei,
Donghua University, China

PPC-7

The characteristics of alkaline hydrolysis of PET industrial filament were analyzed based on the change of structural properties under alkaline environment

Ruiling Fan, <i>Donghua University, China</i>	PPC-8	Quantitative characterization of branching degree of chain extended polyester based on rheological test
Na Sun, <i>Donghua University, China</i>	PPC-9	The viscosification of titanium catalyzed PET was designed based on the kinetics of solid-phase polycondensation
Kristine V. Aleksanyan, <i>Russian Academy of Sciences, Russia</i>	PPC-10	Development of PLA-based composites with antibacterial activity
Zhuo Meng, <i>China Pharmaceutical University, China</i>	PPC-11	Formation of phosphate modified biochar loaded nano zero valent iron and the mechanism of its highly efficient removal of Cr (VI) from water
Hileia Souza, <i>University of Minho, Portugal</i>	PPC-12	Development and characterization of a new PBAT-cork-composite.
Tae-Wook Kim & Jae-Myung Lee, <i>Pusan National University, South Korea</i>	PPC-13	Evaluation of Mechanical Performance of PVC-type Insulation Foam under Cryogenic Temperatures
Hannah Walters, <i>University of Exeter, United Kingdom</i>	PPC-14	Engineering bioplastic precursor production in fermentative bacteria, using genetic and feedstock approaches

*We wish to
see you again at*

**4th GLOBAL CONFERENCE ON
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