YUKTAN TECHNOLOGIES

POLYMER CONNECT

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TENTATIVE PROGRAM

6th International Conference on ADVANCED POLYMER SCIENCE AND ENGINEERING

October 28-30, 2025 | Tenerife, Canary Islands

GF Gran Costa Adeje Hotel
Santa Cruz de Tenerife, Spain

committee@polymersconference.com

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Keynote Presentations

Improving Pvdf Piezoelectricity by Various Means
Abdellah Ajji, CREPEC, Polytechnique Montreal, Canada

From Waste to Opportunities: The WPC, understanding the Properties through the Structure
Pablo Raimonda,Universidad de la Republica, Uruguay

Modified Traditional Initiator Systems with Unrivaled Arrhenius-MW Behavior. Greener and More Sustainable Cationic Polymerizations
Stewart P. Lewis, Pyramid Polymers LLC,United States

Chitosan-derived Smart Nanocarbons for High-value Applications
Juan Matos Lale, Universidad Autonoma de Chile, Chile

Advanced Simulation of Injection Molding: Material Characterization and Main Phenomena Involved
Roberto Pantani,University of Salerno, Italy

Environmental 100% Biobased Poly(Trimethylene Furanoate (PTF) Modified with Sebacic Acid and Suberic Acid
Valentina Siracusa, University of Catania, Italy

Polymer Engineering for Biomedical Applications - Material development for implants
Ines Kuehnert, Leibniz-Institut für Polymerforschung Dresden e. V., Germany

Oral Presentations

Structural Numerical Simulation in Plastic Pallets
Ines Gomes, PIEP, Portugal

Numerical Analysis of Fatigue in Plastic Parts
Vicente Barroso, PIEP, Portugal

Fatigue Behavior of Injection Molded Polymer Matrix Composites at Different Temperatures: A Case Study of a Bicycle Frame
Catarina Rebelo, PIEP, Portugal

Influence of Material Characterization Methods on Liquid Silicone Rubber Injection Moulding Simulations
Maurício Azevedo, Polymer Competence Center Leoben GmbH, Austria

Science and Applications of One-dimensional Uneven-structured C60 Polymer
Jun Onoe, Nagoya Universiy, Japan

UV-Assisted Synthesis of Gel Polymer Electrolytes for Sustainable Li-Ion Battery Design
Ana Luisa BARRERA ALMEIDA, Universite de Lille (UMET), France

Small Biogas Plants made of Textile Materials
Hofmann Josef, University of Applied Sciences Landshut, Germany

Upscaling High Glycolic Acid Polyesters: A Study into the Synthesis, Recycling and (Bio)degradation of Polylactic-co-glycolic
Angus McLuskie, University of Amsterdam, Netherlands

High Performance Recycled CFRP Composites Based on Reused Carbon Fabrics through Sustainable Mild Solvolysis Route
Wael Ballout, UCLouvain/IMCN/BSMA,Belgium

Exploiting Self-assembly of Block Copolymers to Control the Positioning of Lead Halide Perovskite Nanocrystals onto Conductive Supports
Anna Malafronte, University of Naples Federico II, Italy

Tuning Lamellar Nanostructure Alignment in Crystalline Block Copolymers
Rocco Di Girolamo, University of Naples Federico II, Italy

Nanogels for Pulmonary Drug Delivery
Nikolaos Politakos, National Hellenic Research Foundation, Greece

Optimizing Pore Environment in a Cationic Polymetric Nanotrap for Highly Efficient Remediation of Short-Chain Per- and Polyfluoroalkyl
Bin Wang, Soochow University, China

Designing and Synthesis Routs for Conductive Ionomers for Durable Anion Exchange Membrane-based Water Electrolyzers
Mehdihasan Shekh, Shenzhen Wenshi Hydrogen Energy Technology Co. Ltd, China

Preparation of Original Hydrophobic, and Surface-Functionalized Microparticles via Suspension Polymerization
Kishen Haumeer, IMP Laboratory/Claude Bernard Lyon1 university, France

Interaction of Human Cells with Bacterial Nanocellulose
Lubica Stankova, Institute of Physiology, ASCR, Czech Republic

From Skin to Bone: Engineering Biomimetic in Vitro Models using Polymeric Materials
Martina Doubkova, Institute of Physiology, Czech Academy of Sciences, Czech Republic

Hydrogel formulation for sustained release of biomimetic nanoparticles
Oshrat Regev Yehishalom, Technion- Israel Institute of Technology, Israel

3D printing of Pea Protein – κ-Carrageenan nanoparticles for Edible Pickering Emulsions
Galia Hendel, Technion- Israel Institute of Technology, Israel

Direct Mixed-mode Partitioning using DIC and J-integral in Beam-like Specimens
Alojz Ivankovic, University College Dublin, Ireland

Synthesis of fully-biobased composites from isosorbide monomethacrylates reinforced with flax by Resin Transfer Molding (RTM)
Sara Barriga Valdez, Université de Lille, France

From Waste to Vehicles: Ageing and Durability of Post-Industrial and Post- Consumer Recycled Polypropylene
Valentina Brunella, Università di Torino, Italy

Poster Presentations

Study of Homogeneous and Heterogeneous Catalysts Based on Zinc (II) Complexes for the Synthesis of PLA via Ring-Opening Polymerization
Dario Gonzalez, Pontificia Universidad Catolica de Valparaiso, Chile

Cellulose-derived Nanoporous Carbons for the UV-driven Photocatalytic Remediation of Tluene Pollution
Juan Matos Lale, Universidad Autonoma de Chile, Chile

XAFS Analysis of Polymer-supported Osmium Oxide Catalyst
Tomoko Yoshida, Nagoya University, Japan

Engineering Green Rubber Composites: Utilization of Devulcanized Rubber Crumb and Lignin
Michaela Dzuganova, Slovak University of Technology in Bratislava, Slovak Republic

Synthesis and Physical Characterization of Covalently Linked thieno[2,3-b]thiophene-fullerene Dimers
Abdulrahman M. Alazemi, Kuwait University, Kuwait

The Effect of the Frequency of the Ultrasonic Field on the Swelling Kinetics of PMAA Xerogel and PMAA-LTA Zeolite Composite Xerogel
Jelena Jovanovic, Institute of General and Physical Chemistry, Yugoslavia

Investigating Metal Complexes of Poly(tartaric acid) and Poly(hydroxymandelic acid) as Thermal Interface Materials
Natalia Terenti, National Institute for Research and Development of Isotopic and Molecular Technologies, Romania

Sustainable Polypropylene Light-Weight Skateboards
Andreas Charalambous, Capsule Skateboards Ltd, Cyprus

Synthesis and Characterization of a New Ionic Poly(IMIDE) With Potential Application As a Membrane for Gas Separation
María Victoria, Pontificia Universidad Católica de Chile, Chile

Design BioCP-doped films based on chia seed mucilage
Sabina Weronika Jaros, Uniwersytet Wrocławski, Poland

Technologies for obtaining biocomposites with improved durability against environmental factors
Natalia Kubiak, Adam Mickiewicz University, Poland

Sustainable PLA Composites Reinforced with Agricultural Waste for FDM 3D Printing
Magdalena Kustosz, Adam Mickiewicz University, Poland

Breaking the Limits of PLA Toughness: The Role of Dual-Functional Organosilicon Additives in Structure–Property

Julia Glowacka, Adam Mickiewicz University, Poland

Liquid for Fused Deposition Modeling Technology - new possibilities in composite manufacturing

Roksana Konieczna, Adam Mickiewicz University, Poland

Pilot Study on the Application of L-FDM Technology for Printing Controlled-Release Tablets Containing Active Pharmaceutical Ingredients
Ewa Gabriel, Adam Mickiewicz University, Poland

Thermal Characterization of FFKM: A DOE-Based Optimization of DSC and TG Parameters
Caio Rosemberg Fonseca do Nascimento, Instituto Nacional de Tecnologia, Brazil

Residual tensions in multilayers for clear aligners with tunable thermomechanical properties
José Ignacio, IMDEA materials, Spain

Hydrophobic/hydrophilic Bifunctional Cryogel for the SPE-LC-MS Analysis of PFAS in Water
Gabriel Cabral da Fonseca, BCMaterials, Spain

Yet to be confirmed

Oral Presentations

Synthesis and Ring Opening Metathesis Polymerisation of O-Dialkoxy Paracyclophanedienes
Yurachat Janpatompong, The University of Manchester, United Kingdom

Protic Ionic Liquid-based Polymer Electrolyte Membrane for Enhanced Proton Conduction
Jay Narayan Mishra, IIT (BHU) Varanasi, India

Electrically Conductive Silver-Polyaniline Core-Shell Nanoparticle Composite Membranes for Enhanced Water Filtration
Zulfiqar Ahmad Rehan, Sultan Qaboos University Muscat Oman, Oman

Role of Magnetic $NiFe_2O_4$ and Conductive rGO in Tailoring the Dielectric and EMI Shielding Properties of TPU Nanocomposite Films
Yadav Avadhesh Anantram, IIT Delhi, India

Understanding Long-Term User Engagement in Surplus Food Rescue Platforms: The Role of Psychological and Behavioral Factors
Muhammad Khan, Institute of Business and Leadership Studies, Pakistan

Sustainable Approach Towards Extraction and Preparation of Micro-fibrillated Cellulose Based Composite Biofilm from Aegle Marmelos
Prince Kumar Sonu, Central University of Haryana, India

Developing Sustainable Plant-Based High Water Repellent Coatings Using Hydrophobic Pine and Palm Pollen

Brenda Resendiz Diaz, Queen Mary University of London, United Kingdom

Influence of Dispersion Routes on the Multifunctional Properties of LLDPE/CNF Nanocomposites
Vaibhav Jain, IIT Delhi, India

Fabrication of Plasmonic Gold Semi-Shell-Embedded Polyion Complex Vesicles (PICsomes) via RAFT Polymerization for
Deepak Bains, Institute of Nano Science and Technology (INST), India

Poroelastic Evolution of Agarose Hydrogels During Drying
Maryama Hammi, university Mohammed v, Morocco

Effect of Porosity Changes on the Flexural Behavior of FG-CNT Composite Beams Supported by Winkler, Pasternak,
Abdelillah Benahmed, University of Blida, Algeria

Multifunctional rGO-based Coatings: Mechanical Strength, Thermal Resistance, and Durability of Anti-icing
Rajat Kumar, Thapar Institute of Engineering and Technology, India

Evaluation of Overprotection in ICCP-Coated Steel Structures: Microscopic Evidence of Precipitation Effects
Mona Maadani, Marine Institute of Memorial University of Newfoundland, Canada

Automated Swelling and Degradation Testing for Hydrogels: Advancing Precision and Reproducibility in Polymer
Sinan Golhan, GelTech Labs, United States

Fabrication of Smart Microgels for Intelligent Drug Delivery
Mohammad F. Bayan , Philadelphia University, Jordan

Dual-Action Electrospun Nanofibrous Membrane: Efficient Bacterial Removal and Real-Time Electrochemical Biosensing
Manish Kumar, Shri viswakarma skill university, India

Development and Characterisation of Wet-Spun Alginate–Moringa and Cellulose–Moringa Composites for Potential Water Purification
Abimbola Oluwatayo Orisawayi, Cranfield University, United Kingdom

Biomimetic Reaction of Cellulose Nanofibrils via Amino Acids: A Morphological and Structural Study
Daniel José da Silva, Palacky University, Czech Republic

Diagnostic Accuracy of Polymerase Chain Reaction Against Giemsa Staining on Tissue Biopsy for Cutaneous Leishmaniasis
Aleena Khalid, Islamabad Medical & Dental College (IMDC), Pakistan

Virtual Presentations

OEGMA Based Copolymers: Tuning Amphiphilicity and Thermoresponsive Behavior
Zacharoula Iatridi, University of Patras, Greece

Insights into Selective Behavior of NiFe2O4/Graphene Oxide@Polyaniline Nanocomposite as a Novel Adsorbent
Azam Jabbari, Damghan university, Iran

Influencia da Velocidade de Correntes de Ar Sobre a Porosidade Em Juntas Soldadas Pelo Processo MIG/MAG
Emiliam Bezerra da Silva, Universidade Federal De Campina Grande, Brazil

Poster Presentations

Tribological Behavior of Epoxy-Nanofilled Composites Casing Coating under Dry Conditions in Oil Well Casing Applications
Ahmad Bawagnih, King Fahd University of Petroleum and Minerals, Saudi Arabia

Self-assembled Bioactive Protein/HA/CUR-based Amyloidogenic Nanohydrogel Dressing for Rapid Infected Diabetic Wound Healing via Enhanced Angiogenesis and Anti-inflammation
Saurabh Kumar Srivastava, IIT(BHU), India

Pegylated Graphene Oxide For 4'-Fluorouridine Delivery: An Ab Initio Approach to Antiviral Therapy
Oluwasegun Adekoya, Tshwane University of Technology, South Africa

Exploring Ferrite-Cobalt Composites for Enhanced Supercapacitor Performance

Yeni Sanchez, Venezuelan Institute of Scientific Research, Venezuela

Comparative Analysis of Classic Network vs. Nanogel Junction Network in Konjac Glucomannan/Kappa

Or Peleg Evron, Technion- Israel Institute of Technology, Israel

Enhancing the Photocatalytic Efficiency of g-C3N4 by Sonochemical Dispersion of CdSe Quantum Dots for Degradation of Industrial
Nagy N. Mohammed, Saxony Egypt University for Applied Science and Technology, Egypt

Gadolinium–Alginate Hydrogel Composites for Sensitive and Rapid Electrochemical Detection of Microplastics
Abrar Hussain, University of Science and Technology (UST), South Korea

Sustainable fabrication of a combination of alginate and Moringa oleifera composites via electrospinning
Abimbola Oluwatayo Orisawayi, Cranfield University, United Kingdom

* Tentative Program is Subjected to Change*

We wish to see you at

Polymer Connect-2025

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