

Polymer Science and Composite Materials Conference

February 26-28, 2020

Exhibitor



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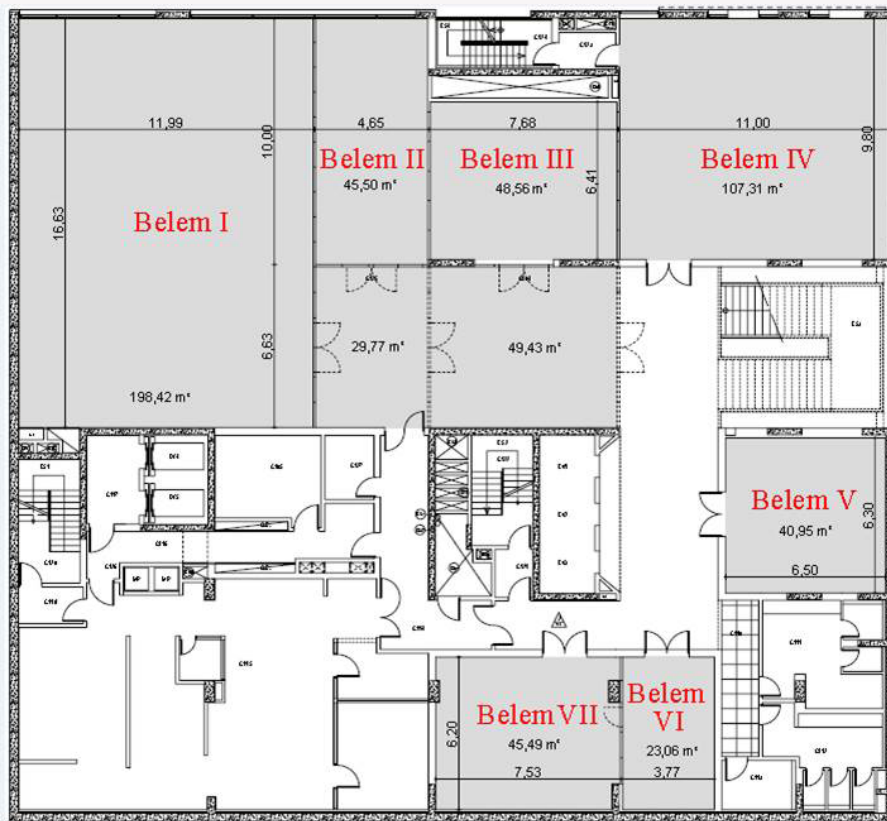


The event invitation code is: **polcl**

Venue

Sana Malhoa Hotel
Lisbon, Portugal

Floor Plan



Wi Fi access code

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Session Chairs

Day-1

Geoffrey Robert Mitchell, Vice Director, CDRSP, Portugal
Artur Mateus, CDRSP, Portugal
Filippo Pierini, Polish Academy of Sciences, Poland
Joana Maria Curto, The University of Beira Interior, Portugal

Day-2

Paula Marques, University of Aveiro, Portugal
Ana Paula Piedade, The University of Coimbra, Portugal
Thomas Gkourmpis, Borealis AB, Sweden

Day-3

Geoffrey Robert Mitchell, Vice Director, CDRSP, Portugal
Giuliana Gorrasi, University of Salerno, Italy
Pedro Martinho, Polytechnic of Leiria, Portugal

Day 01

February 26, 2020

@ Belem-3

- 09:00-09:45 Conference Registrations
- 09:45-10:00 Opening Ceremony by Prof. Geoffrey Robert Mitchell, Vice Director, CDRSP, Portugal

Keynote Session

- 10:00-10:30 **Manufacturing Novel Polymeric Material without Synthetic Chemistry**
Geoffrey Robert Mitchell, Vice Director, CDRSP, Portugal
- 10:30-11:00 **Polymeric Nanoparticles for the Intracellular Delivery of Biotherapeutics**
Wim Hennink, Utrecht University, The Netherlands

11:00-11:20 Coffee Break and Networking @ Foyer

- 11:20-11:50 **Recent Studies on the Synthesis and Functions of Advanced Nanocomposite Gel**
Kazutoshi Haraguchi, Nihon University, Japan
- 11:50-12:20 **Portugal in the 2020 World of Plastics**
Maria Elvira Callapez, University of Lisbon, Portugal
- 12:20-12:50 **Photo-responding Water-solubilization of Itaconic BIONYLON Contributable to Marine Environment Protection**
Tatsuo Kaneko, Japan Advanced Institute of Science and Technology, Japan

12:50-14:00 Lunch Break and Networking @ Restaurante Mediterrâneo

- 14:00-14:30 **Magnetic Polymer Nanocomposites: Opportunities in Imaging and Therapy Applications**
Manuel Bañobre-López, INL - International Nanotechnology Laboratory, Portugal
- 14:30-15:00 **Polymer Nanocomposites: From Laboratory Concept to Large Scale Production**
Thomas Gkourmpis, Borealis AB, Sweden
- 15:00-15:30 **Biomaterials for *In Situ* Tissue Regeneration**
Saba Abdulghani, Polytechnic of Leiria, Portugal
- 15:30-16:00 **Tacticity and Chirality Effects in Molecular Self-assembly of Polymers**
Jing-Cherng Tsai, National Chung Cheng University, Taiwan
- 16:00-16:20 **Portuguese Plastics Industry Sector and the Circular Economy Challenges**
Nuno Aguiar, Technical Director, APIP, Portugal

16:20-16:35 Coffee Break and Networking @ Foyer

Polymer Connect Session-1

- 16:35-16:55 **Scientific Advances and Challenges in Sustainability of Food Packaging Materials**
Keith Vorst, Iowa State University, USA
- 16:55-17:15 **Suitability of Poly(Butylene Succinate) as a Direct Melt Paperboard Coating for Rapid Reheat Applications**
Greg Curtzwiler, Iowa State University, USA
- 17:15-17:35 **Functional Polymers for Deterministic Doping**
Michele Laus, University of Piemonte Orientale, Italy

- 17:35-17:55 **Reinforced PLA Composites for Use in Medical Applications**
Yuanyuan Chen, Athlone Institute of Technology, Ireland
- 17:55-18:15 **Orientationally Cross-linked Hydrogels of Extracellular LC Mega-saccharides Secreted from Freshwater Cyanobacteria, *Aphanothece sacrum***
Maiko Okajima, Japan Advanced Institute of Science and Technology, Japan
- 18:15-18:35 **Resin Synthesis and Characterizations for Carbon Materials**
Nathanael Chaussoy, The CEA Ripault, France

18:35-19:35 **Cocktails**

@ Foyer

Day 02

February 27, 2020

@ Belem-3

Keynote Session

- 09:00-09:30 **The Dual Role of Electricity on Scaffolds: Preparation and Applications**
Frederico Ferreira, The University of Lisbon, Portugal
- 09:30-10:00 **Modification of Rheological Properties for Biopolyesters**
Masayuki Yamaguchi, Japan Advanced Institute of Science and Technology, Japan

10:00-10:20 **Coffee Break and Networking**

@ Foyer

Polymer Connect - Session-2

- 10:20-10:40 **Natural Active Component Loaded Biopolymer-based Electrospun Nanofibers**
Branka Pilic, University of Novi Sad, Serbia
- 10:40-11:00 **Graphene-based Biopolymers Macrostructures for Water Remediation**
Paula Marques, University of Aveiro, Portugal
- 11:00-11:20 **Respirometry Methods for Measuring Biodegradation in Different Media from Soil to Sea**
Andrej Holobar, CEO, ECHO, D.O.O, Slovenia
- 11:20-11:40 **Cellulose-based Chiral Hierarchical Structures**
Maria Helena Godinho, New University of Lisbon, Portugal
- 11:40-12:00 **Armadillo 3dprinters, Case Studies of Material R&D for Industrial Applications (Stone like Materials, Geopolymers, Refractories, Polymers and Biopolymer)**
Matteo Baldassari, concr3de, The Netherlands
- 12:00-12:20 **An Innovative Approach in Injection Molds for Plastics**
Pedro Martinho, Polytechnic of Leiria, Portugal
- 12:20-12:40 **Mixing the Unmixable**
Ana Paula Piedade, The University of Coimbra, Portugal
- 12:40-12:55 **A New Recycling Method for Polyanion-based Thermal Insulator Composites**
Matteo Cibinel, University of Trieste, Italy

12:55-14:00 **Lunch Break and Networking**

@ Restaurante Mediterrâneo

Polymer Connect - Session-3

- 14:00-14:20 **Polyurethane Films and Nanocomposites Made from Polycarbonate-based Waterborne Dispersions and Nanofiller**
Milena Spirkova, Institute of Macromolecular Chemistry CAS, Czech Republic
- 14:20-14:40 **Network Topology in DGEBF Resins: Understanding Chemical Barrier Performance**
Patrick Fairclough, The University of Sheffield, UK
- 14:40-15:00 **Tire Compounds Based on Thermoplastic Matrix for Multipurpose Moulding Processes**
Artur Mateus, CDRSP, Portugal
- 15:00-15:20 **Performance and Processing of Moulded Pulps from Agro-wastes: Effects of Micro vs. Nanocellulose and its Modification**
Nattakan Soykeabkaew, Mae Fah Luang University, Thailand
- 15:20-15:40 **Marine Biopolymers: New Materials for Sustainable Films and Coatings**
Maria Manuel Gil, MARE- Polytechnic of Leiria, Portugal

15:40-16:00 Coffee Break and Networking @ Foyer

- 16:00-16:20 **Mechanical Milling: A Useful Top-down Approach to Produce Bio-Nano-Composites Using Materials from Renewable Sources**
Giuliana Gorrasi, University of Salerno, Italy
- 16:20-16:40 **Macromolecular Cross-Metathesis as a Route to New Multiblock Copolymers**
Yulia Denisova, A.V. Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation
- 16:40-17:00 **Biomimetic Inspired Materials for Purification in Pharmaceutical Industry**
Teresa Esteves, IBB-TAE, Portugal
- 17:00-17:20 **New Silver(I) Coordination Polymers with Antibacterial Action Against *Escherichia coli* and *Staphylococcus aureus***
Aurel Tabacaru, University of Galati, Romania
- 17:20-17:40 **Self-assembly of Amphiphilic Homopolymers and Diblock Copolymers with Amphiphilic Blocks**
Elena Govorun, Moscow State University, Russian Federation

17:40-18:30 Poster Session @ Foyer

- PC-01 Green Nanocomposites Prepared with Rosin-Limonene Copolymer and Algerian Clay**
Geoffrey Robert Mitchell, Vice Director, CDRSP, Portugal
- PC-02 Glass Transition Temperature (T_g) by Molecular Dynamics Simulations**
Elena Luiza Epure, Gheorghe Asachi Technical University of Iasi, Romania
- PC-03 Multilayer Thin Films Based on Epoxy-Aamine Polymers and Ag Nanoparticles**
Ivan N. Senchikhin, Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Russian Federation
- PC-04 On the Reversibility of 1,2,4,5-Tetrachlorobenzene Solubility in Low-density Polyethylene**
Yaroslav Kudryavtsev, A.V. Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation
- PC-05 Identification of Unknown Plastic Wastes and their Distribution Away from Nigerian Landfills**
Wilfred Osita, Bangor University, United Kingdom

- PC-06 Enhanced Flowability of Polycarbonate by Addition of Another Polymer**
Yuki Tanaka, Japan Advanced Institute of Science and Technology, Japan
- PC-07 Mechanical and Optical Properties of Biomass-based Polycarbonate**
Maho Miyashita, Japan Advanced Institute of Science and Technology, Japan
- PC-08 Structure and Properties of Polypropylene Containing Poly(Vinyl Alcohol) Fibers**
Riho Nishikawa, Japan Advanced Institute of Science and Technology, Japan
- PC-09 Material Design of Polyamide Resin to Control the Adhesive Strength with Metal**
Ryo Takatani, Japan Advanced Institute of Science and Technology, Japan
- PC-10 Thermoplastic Starch Foams Reinforced with Silylated Starch and Cotton Fibers**
Bruno Felipe Bergel, The Federal University of Rio Grande do Sul, Brazil
- PC-11 Dual Crosslinkable Alginate-based Hydrogels by Riboflavin Photoinitiator**
Eunu Kim, Chungnam National University, Republic of Korea
- PC-12 Mussel-inspired Poly(allylamine)/Iaponite Composite Hydrogels**
Jeena Lee, Chungnam National University, Republic of Korea
- PC-13 Glycidyl Methacrylate (GMA)-Modified Silk Fibroin Nanofibrous Webs with Dual Crosslinking**
Su Bin Bae, Chungnam National University, Republic of Korea
- PC-14 Hyaluronate/Tyramine Photo-Crosslinkable Hydrogel**
Bo Min Hong, Chungnam National University, Republic of Korea
- PC-15 Electrochemical Catalytic Activity Metallophthalocyanine Functionalized with Graphene Quantum Dots: A Density Functional Theory Approach**
Nguyet Thi Nhu Pham, Pusan National University, Republic of Korea
- PC-16 Weight Reduction and Dyeing Properties of Sea-Island Type UltramicrofiberPET/co-PET Tricot Disperse Dyes with Beige Color**
Jeongmin Kang, Pusan National University, Republic of Korea
- PC-17 Lignin Based Electrospun Fibers**
Turganbay Anar, Al-Farabi Kazakh National University, Almaty, Kazakhstan
- PC-18 Additive Technology for Energy Materials**
Naurzbayeva, Al-Farabi Kazakh National University, Almaty, Kazakhstan
- PC-19 A New Recycling Method for Polyanion-based Thermal Insulator Composites**
Matteo Cibinel, University of Trieste, Italy
- PC-20 Armadillo White, R&D AM Systems for Polymers & Biopolymer**
José A. Fernández Concr3de, The Netherlands

Day 03

February 28, 2020

@ Belem-3

Polymer Connect - Session-4

- 09:00-09:20 **In Situ Gellable Poly(Amino Acid)S for Controlled Drug Delivery**
Benjamin Gyarmati, Budapest University of Technology and Economics, Hungary
- 09:20-09:40 **Nature-inspired Smart Drug Delivery Platforms Based on Electrospun Nanofibers and Plasmonic Hydrogels for Near-infrared Light-controlled Polytherapy**
Filippo Pierini, Polish Academy of Sciences, Poland
- 09:40-10:00 **Single Point Incremental Forming of Composites: Mold Free Composite Manufacturing**
Patrick Fairclough, The University of Sheffield, UK

10:00-10:20 Coffee Break and Networking @ Foyer

- 10:20-10:40 **Microstructure Formation in Styrene-Vinyl Pyridine Block Copolymers Doped with Au Nanoparticles**
Yaroslav Kudryavtsev, A.V. Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation
- 10:40-11:00 **Polymeric Films Based on Thermo- and pH-sensitive Interpenetrating Polymer Networks Microgels for Biomedical Applications**
Oxana Vyshivannaya, Moscow State University, Russian Federation

Polymer Connect - Session-5

- 11:00-11:20 **Macroporous Polymeric Hydrogels Based on Polyvinyl Alcohol**
Mikhail I. Shtilman, Mendeleev University, Russian Federation
- 11:20-11:40 **Design of Nano Polymeric Materials Using 3D Computational Tools**
Joana Maria Curto, The University of Beira Interior, Portugal
- 11:40-11:55 **Chitosan Extracted from Mushrooms: Physicochemical and *In Vitro* Cytotoxic Properties**
Alona Oberemko, Vytautas Magnus University, Lithuania
- 11:55-12:10 **Enhancing Synthetic Scaffolds Biological Performance and Osteoinductive Properties Using Stem Cell-derived Extracellular Matrix**
Joao Silva, IBB-IST, University of Lisbon, Portugal
- 12:10-12:25 ***Chlorella vulgaris* and Tea Tree Essential Oil-based Biopolymeric Delivery Systems for Cosmetic Applications**
Flávia P. Morais, FibEnTech-UBI, University of Beira Interior, Portugal

12:25-13:30 Lunch & Departure @ Restaurante Mediterrâneo

**We wish to see you
at
POLYMER CONNECT 2021
Lisbon, Portugal**

Organising Partner

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