2nd World Congress on Biopolymers
August 04-05, 2016 Manchester, UK

Scientific Program

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### Opening Ceremony

**Day 1 | August 04, 2016**

**08:30-09:30** Registrations

**Rosewood Room**

**conferenceseries.com** 09:30-09:55

#### Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>09:55-10:00</td>
<td>Introduction</td>
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<tr>
<td>10:00-10:25</td>
<td>Title: New concept of resorbable biopolymer hybrids for implant applications</td>
<td>Xiang Zhang, University of Cambridge, United Kingdom</td>
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<tr>
<td>10:25-10:50</td>
<td>Title: Novel approaches in hydrogel design from chemically-modified polysaccharides</td>
<td>Rachel Auzely Velty, University Grenoble Alpes, France</td>
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<tr>
<td>10:50-11:15</td>
<td>Title: Radiation processed textile sludge for preparing eco-friendly bricks</td>
<td>Mubarak Ahmad Khan, Bangladesh Atomic Energy Commission, Bangladesh</td>
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#### Networking and Refreshment Break 11:15-11:30 @ Outside Room

**Sessions:**
- Advanced Biopolymers
- Natural Polymers
- Biopolymers in Biofibers & Microbial Cellulose

**Session Chair:** Maria Cristina Righetti, National Research Council, Italy

#### Session Introduction

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<tr>
<td>11:30-11:50</td>
<td>Title: Biosynthesis of block copolymer for poly(3-hydroxyalkanoate)</td>
<td>Takahiko NAKAOKI, Ryukoku University, Japan</td>
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<tr>
<td>11:50-12:10</td>
<td>Title: Magnetism in metal-free phthalocyanine and graphite-like nanostructures</td>
<td>Armen Kocharian, California State University, USA</td>
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<tr>
<td>12:10-12:30</td>
<td>Title: Constrained amorphous interphase and mechanical properties of bio-based polyesters</td>
<td>Maria Cristina Righetti, National Research Council, Italy</td>
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<tr>
<td>12:30-12:50</td>
<td>Title: Effect of additives on properties of bio-based polymers and their blends</td>
<td>Patrizia CINELLI, National research Council, Italy</td>
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<tr>
<td>12:50-13:10</td>
<td>Title: Understanding the microphase morphology of concentrated cellulose solutions from their rheological behavior</td>
<td>Yumei Zhang, College of Material Science and Engineering, China</td>
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**Group Photo @ Rosewood Room**

**Lunch Break 13:10-14:10 @ Source Grill**

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<tr>
<td>14:10-14:30</td>
<td>Title: Controlled simple green synthesis of smaller sized aqueous quasi-spherical polymer-capped silver nanoparticles</td>
<td>Samuel Oluwatobi Oluwafemi, University of Johannesburg, South Africa</td>
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<tr>
<td>14:30-14:50</td>
<td>Title: Preparation and characterization of organic montmorillonite- polyvinylalcohol-co-polyacrylic nanocomposite hydrogel for heavy metal uptake in water</td>
<td>Ehsan A. H. A. Gomaa, Ain Shams University, Egypt</td>
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<tr>
<td>14:50-15:10</td>
<td>Title: Organic modification and functionalization of biobased aromatics and their use in industrial polymer formulations</td>
<td>Elena Benedetti, AEP Polymers Srl, Italy</td>
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<tr>
<td>15:10-15:30</td>
<td>Title: Dissolution of cellulose in ionic liquids via polyelectrolyte interaction</td>
<td>Ye Chen, College of Material Science and Engineering, China</td>
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<tr>
<td>15:30-15:50</td>
<td>Title: Fabrication of reduced graphene oxide/chitosan-based conductive hydrogel for biomedical applications</td>
<td>Neslihan Alemdar, Marmara University, Turkey</td>
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#### Networking and Refreshment Break 15:50-16:05 @ Outside Room

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>16:05-16:25</td>
<td>Title: The effect of magnetic field on biophysical properties of different water samples</td>
<td>Amani Samy Hegazy, Ain Shams University, Egypt</td>
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<tr>
<td>16:25-16:45</td>
<td>Title: Immittance responses study of dodecyltrimethylammonium bromide effect on 2-hydroxyethyl cellulose solid biopolymer electrolytes</td>
<td>Mohd Ikmar Nizam Bin Haji Mohamad Isa, Universiti Malaysia Terengganu, Malaysia</td>
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*Page 2*
16:45-17:00  Title: Lignin phenol formaldehyde resole resin: Synthesis and characteristics
Masoumeh Ghorbani, University of Natural Resources and Life Sciences, Austria

17:00-17:15  Title: Composition dependence of the synergistic effect of nucleating agent and plasticizer in poly(lactic acid)
Seyed Mohammad Kazem Fehri, University of Pisa, Italy

Day 2  August 05, 2016
Rosewood Room

Keynote Forum

09:05-09:30  Title: Superior thermoplastics prepared entirely from lipids: Synthesis, structure and properties
Suresh S. Narine, Trent University, Canada

09:30-09:55  Title: Developing environment-sensitive molecular probes for target binding-activated fluorescence imaging
Yi Pang, The University of Akron, USA

Sessions:
Biopolymers as Materials | Green Composites in Biopolymers
Session Chair: Lovely Mathew, Mahatma Gandhi University, India

09:55-10:15  Title: Study on curing condition of furan resin for matrix of green composites
Masatoshi Kubouchi, Tokyo Institute of Technology, Japan

10:15-10:35  Title: Bioactive nanofibrous systems based on natural materials
Elisa Mele, University Loughborough, United Kingdom

10:35-10:55  Title: Alcayota films: Effect of crosslinking
Martin A Masuelli, Stanford University, USA

Networking and Refreshment Break 10:55-11:10 @ Outside Room

11:10-11:30  Title: Development and characterization of bio nano cellulose reinforced polyamide nanocomposites prepared by electron spinning method
Lovely Mathew, Mahatma Gandhi University, India

11:30-11:50  Title: The physical principles underpinning the emergence of structure in plants, and their application in the development of new biopolymer based materials
Philip Turner, Edinburgh Napier University, United Kingdom

11:50-12:10  Title: Bionanocomposites derived from natural hydrogel matrices: An application for water purification
Shivani Bhardwaj Misra, University of South Africa, South Africa

12:10-12:30  Title: Maximum utilization of plant resources to produce edible nanocomposite bioplastics
Luiz Henrique Capparelli Mattoso, National Nanotechnology Laboratory for Agribusiness, Brazil

12:30-12:50  Title: Conversion of lipids into biopolymers and conjugates
Aman Ullah, University of Alberta, Canada

Lunch Break 13:10-14:10 @ Source Grill

Poster Presentations  14:10-15:00 @ Outside Room

WCBP-01  Conformational transitions of uracil transporter-uraa from escherichia coli: A molecular simulation study
Xi Zhao, Jilin University, China

WCBP-02  Title: Development and in vivo evaluation of a Copper IUD coated with a biodegradable polymer
Abi Santhosh Aprem, HLL Lifecare Ltd, India

WCBP-03  Title: Furfuryl low-molecular-weight chitosan derivative as anti-adhesion after tendon regeneration surgery
Tae-II Son, Chung-Ang University, Republic of Korea

WCBP-04  Title: Isolation and characterisation of pha-producing bacteria from the environment.
Aisha Alwuhaib, University of Portsmouth, UK

WCBP-05  Title: Investigations of takeout proteins’ ligand binding and release mechanism using molecular dynamics simulation
Xu-ri Huang, Jilin University, China

WCBP-06  Title: Biopolymer chitosan/montmorillonite/nano γ-Al2O3 nanocomposites: Preparation and characterization
Nahid Shajari, Islamic Azad University, Iran
WCBP-07 Title: Tearing resistance of blown biodegradable films based on PLA
Norma Mallegni, University of Pisa, Italy

WCBP-08 Title: Multiscale simulations of a peptide - Zinc oxide composite
Immanuel Schäfer, University of Stuttgart, Germany

WCBP-09 Title: Radiation copolymerization of different monomers and polymers producing hydrogels applied in water treatment processes
Reem Mohammed, Ain Shams University, Egypt

WCBP-10 Title: Isolation and characterization of polyvinyl alcohol (PVA) degrading fungal strains from soils
Somayeh Mollasalehi. University of Manchester, United Kingdom

Sessions:

Biopolymer Feed Stock Challenges & Opportunities | Biopolymers for Tissue Engineering | Future & Scope of Biopolymers

Session Chair: Florent Allais, ABI – AgroParisTech, France

15:00-15:20 Title: Chemo-enzymatic synthesis and polymerizations of bio-based bisphenols derived from lignin: An access to novel 100% renewable alternating aromatic/aliphatic polymers
Florent Allais, ABI – AgroParisTech, France

15:20-15:40 Title: Biodegradable and renewable polymers: How to contribute to a sustainable future
Andreas Kunkel, BASF SE, Germany

15:40-16:00 Title: Preparation and characterization of silk/diopside composite nanofibers via electrospinning for tissue engineering applications
Abbas Teimouri, Payame Noor University, Iran

Networking and Refreshment Break 16:00-16:15 @ Outside Room

16:15-16:35 Title: Preparation and characterization of bacterial cellulose-based biomaterial as scaffolds for articular cartilage tissue engineering
Huaping Wang, Donghua University, China

16:35-16:55 Title: Biopolymers – Key actors in the medicine of the future
Francisco M Goycoolea, University of Leeds, UK

16:55-17:15 Title: A tunable and scalable biomaterial for 3D cell development: applications in cartilage engineering and tumor engineering
Brigitte Deschrevel, University of Rouen, France

Panel Discussion

Award & Closing ceremony

 Bookmark your dates

6th World Congress on Biopolymers

September 07-09, 2017 Paris, France

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Website: biopolymers.conferenceseries.com