

Tentative Program

8th world Congress on

Biopolymers & Bioplastics

June 28-29, 2018 Berlin, Germany



Interactive
Sessions

Keynote
Lectures

Plenary
Lectures

Workshops

Exhibitors

B2B
Meetings

For available speaker slots

biopolymercongress@chemseries.com

8th world Congress on

Biopolymers & Bioplastics

June 28-29, 2018 Berlin, Germany

Program at a Glance				
Day 1				
Morning Sessions	Reception/Registration	08.00-09.00		
		Time	General Session	
		09.00-09.15	Inaugural Address	
	Least of 3 Keynote/Plenary Talks	09.15-09.45	Keynote/Plenary Talk 1	
		09.45-10.15	Keynote/Plenary Talk 2	
		10.15-10.45	Keynote/Plenary Talk 3	
	Panel Discussions/Group Photo			
	Coffee/Tea Break 10.45-11.00 (Networking)			
11.00-12.40		Natural Polymers		
Evening Sessions				
	Lunch Break 12.40-13.30			
	13.30-15.30		Advanced Biopolymers	
	Coffee/Tea Break 15.30-15.45 (Networking)			
	15.45-17.25		Workshop	

Day 2				
Morning Sessions		Time	Session 1	Session 2
	09.00-10.40		Keynote Forum	Bioplastics
	Coffee/Tea Break 10.40-10.55 (Networking)			
	10.55-12.35		Bioinformatics	Biopolymers as Materials

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Evening Sessions	Lunch Break 12.35-13.25		
	13.25-15.05	Green Composites in Biopolymers	Biopolymers for Tissue Engineering and Regenerative Medicine
	Coffee/Tea Break 15.05-15.20 (Networking)		
	15.20-17.00	Poster Presentations	Poster Presentations
	NOTE: Program Schedule is subject to change with final allotment of the speaker slots		

NOTE: Program Schedule is subject to change with final allotment of the speaker slots	
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Conference Highlights

- Natural Polymers
- Advanced Biopolymers
- Bioplastics
- Bioinformatics
- Biopolymer Applications
- Biopolymers as Materials
- Green Composites in Biopolymers
- Biopolymers for Tissue Engineering and Regenerative Medicine
- Biodegradable polymers
- Biopolymers in Biomedical Applications
- Recycling & Waste management of Biopolymers
- Biopolymers in Biofibers & Microbial Cellulose
- Biopolymer Feed Stock Challenges & Opportunities
- Future & Scope of Biopolymers
- Biopolymer Companies & Market

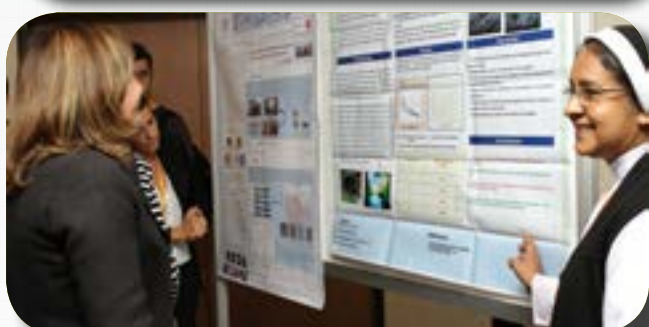
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Glimpses of Biopolymer Conferences



Best Tourist Destinations in Berlin

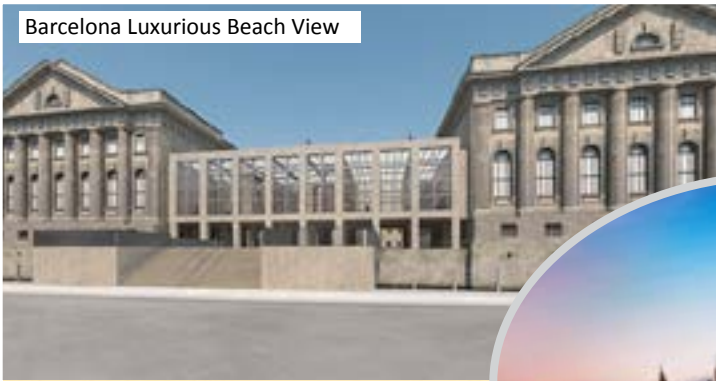
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Pariser Platz



Barcelona Luxurious Beach View



Berlin Holocaust Memorial



Berlin Panorama



Reichstag



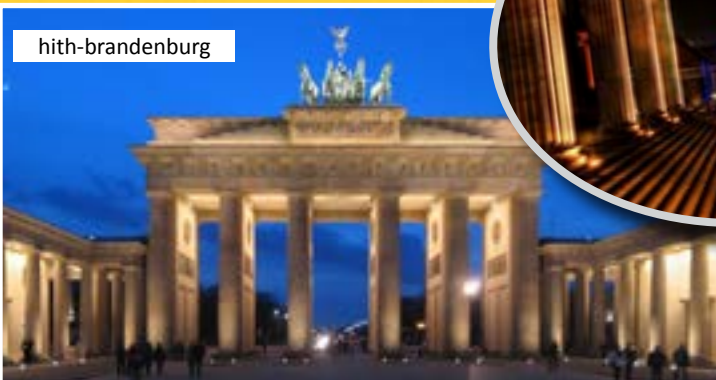
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JOINT EVENT

**5TH INTERNATIONAL CONFERENCE ON BIOPLASTICS
&
6TH WORLD CONGRESS ON BIOPOLYMERS**

September 7-9, 2017 Paris, France



Amphitheatre

conference**series**.com

Opening Ceremony

Keynote Forum

Introduction

Title: Rsin based composites, the ultimate green material

Geoffrey R Mitchell, Institute Polytechnic of Leiria, Portugal

Title: Hpma copolymer-bound doxorubicin as endogenous vaccine substantially increases therapeutic effect of check-point blockade monoclonals: Acute versus chronic model

Blanka Rihova, Institute of Microbiology AS CR, Czech Republic

Networking & Refreshment Break

Sessions: Biopolymer Applications | Advanced Biopolymers | Biopolymers for Tissue Engineering and Regenerative Medicine

Session Chair: Katrien Bernaerts, Maastricht University, Netherlands

Session Co-chair: Maia Merlani, Tbilisi State Medical University, Georgia

Session Introduction

Title: Advanced biopolymeric electrospun nanoscale fibers for controlled drug delivery

Anand Gadre, University of California, USA

Title: Sustainable composites based on biopolymers and natural fibres

Patrizia Cinelli, University of Pisa, Italy

Title: Increasing the solubility range of polyesters by tuning their microstructure with comonomers

Katrien Bernaerts, Maastricht University, Netherlands

Group photo

Lunch Break

Title: An optimized methodology to analyze biopolymer capsules by environmental scanning electron microscopy

Egle Conforto, Université De La Rochelle, France

Title: Chitosan, a promising biomaterial for tissue engineering

Christine Jerome, University of Liège, Belgium

Title: New biopolymer from comfrey: chemistry and biological activity

Maia Merlani, Tbilisi State Medical University, Georgia

YRF: Drug-free hydrogel based antibacterial hybrid polymers for wound healing applications

Isabel Orlando, University of Westminster, UK

YRF: UV-curable printed phosphorus-Polymer thin film

Hao Bai, Karlsruhe Institute of Technology, Germany

YRF: Hierarchical structure of mucin within the gastrointestinal tract and its interaction with dietary components

Oliver Meldrum, University of Queensland, Australia

Networking & Refreshment Break

Sessions: Bioplastics

Session Chair: Ivana Marova, FCH BUT, Czech Republic

Title: Application of PHA-based bioplastics in nanomaterials

Ivana Marova, FCH BUT, Czech Republic

Title: Developing thermoplastic films from wheat flours with different proportions of finely grinded bran

Paolo Benincasa, University of Perugia, Italy

YRF: Waste papers as a sustainable resource for the production of polyhydroxybutyrate (PHB) using Ralstonia eutropha ATCC 17699

Huda S Al-Battashi, Sultan Qaboos University, Oman

YRF: Beets to Biopolymers - Characterization of partially biobased polyamides with elevated glass transition temperatures from rigid galactaric acid derivatives

Aleksandra A Wroblewska, Maastricht University, Netherlands

YRF: Biodegradable and tough PLA-Cellulose based composites via stereocomplexation

Joseph K Muiruri, Singapore Institute of Manufacturing Technology, Singapore

YRF: How can Ghana attain petroleum – Based plastic to achieve clean environment

Yakubu Muntaka Musah, University of Professional Studies, Ghana

Panel Discussion

Day 2 September 08, 2017

Amphitheatre

Keynote Forum

Introduction

Title: Processing of natural polymers based materials using ionic liquids

Eric Leroy, CNRS, France

Title: Sustainable PHB production from CO₂ and sunlight using cyanobacteria

Maximilian Lackner, University of Applied Sciences FH Technikum Wien, Austria

Networking & Refreshment Break

Sessions: Biopolymers as Materials | Green Composites in Biopolymers

Session Chair: Lovely Mathew, Viswajyothi College of Engineering and Technology, India

Session Introduction

Title: Development of glycol-lignin derivatives for high performance hybrid materials

Takashi Yamashita, Tokyo University of Technology, Japan

Title: Bio-based materials from renewable resources: A brief overview

Elisabete Frollini, University of Sao Paulo, Brazil

Poster Presentations BP-01 to BP-10 @ Foyer

- | | |
|-------|---|
| BP-01 | Title: The study of some properties of papain and bromelain containing gels
Nana Gorgaslidze, Tbilisi State Medical University, Georgia |
| BP-02 | Title: Properties of bio-composites based on polylactic acid (PLA)/polycaprolactone (PCL)/cinnamon oil
Rodolfo Rendon, CEPROBI-IPN. Mexico |
| BP-03 | Title: Structure and thermal degradation of pineapple leaf cellulose after treatment
Siriwan Leesirisan, Department of Science Service, Thailand |
| BP-04 | Title: Bacterial cellulose production by komagataeibacter xylinus using a culture medium based on mango waste supplemented with different nitrogen sources
Yolanda González-García, University of Guadalajara, Mexico |
| BP-05 | Title: Elucidating Proton-mediated conformational changes in the acid-sensing Ion Channel 1a through molecular dynamics simulation
Xuri Huang, Jilin University, China |
| BP-06 | Title: Influence of substitution of phenol by lignins in PF resins on the impregnation of Kraft paper
Marion Thébault, Wood Carinthian Competence Center, Austria |
| BP-07 | Title: Biodegradability of PHA-based composites in marine and terrestrial environments
Maurizia Seggiani, University of Pisa, Italy |
| BP-08 | Title: Edible films from kefir and milk whey proteins as carrier of probiotic microorganisms
Judith Piermaria, Centro de Investigación, Argentina |
| BP-09 | Title:Regulating the Acid-sensing ion channel1a with psalmotoxin1 through molecular dynamics simulation
Xi Zhao, Jilin University, China |
| BP-10 | Title: Waste management and green synthetic approach of copolymeric hydrogel in water purification
Gigimol M.G, Alphonsa College, Pala, Kerala, India. |

Poster Presentations BP-11 to BP-19 @ Foyer

- BP-11** **Title: Biopolymer from *Anchusa italica* (Boraginaceae)**
Lali Gogilashvili, Tbilisi State Medical University, Georgia
- BP-12** **Title: Chemical modification of 5 α -steroidal oximes and amine with N-protected amino acids**
Nanuli Nadaraia, Tbilisi State Medical University, Georgia
- BP-13** **Title: Synthesis and characterization of maleic anhydride grafted orange waste**
Veronika Batori, University of Borås, Sweden
- BP-14** **Title: How ferulic acid can be turned into a biobased Non-Isocyanate polyurethane?**
Antoine Gallos, Chaire ABI - AgroParisTech, France
- BP-15** **Title: UV-curable printed phosphorus-polymer thin film**
Hao Bai, Karlsruhe Institute of Technology, Germany
- BP-16** **Title: Cellulose acetate-graft-poly(methyl methacrylate): A “graft from” approach of nitroxide mediated radical polymerization (NMP)**
Tebong Mbah Vernon, UNIVPM, ITALY
- BP-17** **Title: Research for cytochalasin B, phloretin, forskolin, and phlorizin inhibiting glucose transporter from *Staphylococcus epidermidis* through molecular dynamics simulation**
Xianyang Zeng, Jilin University, China
- BP-18** **Title: Formulation and technology development of natural biopolymer-containing films for burn treatment**
Sopio Gokadze, Tbilisi State Medical University, Georgia
- BP-19** **Title: Effect of Incorporation of bioactive agent on physical and mechanical properties of active PLA Composites**
Mohammadreza Rezaeigolestani, University of Tehran, Iran

Lunch Break

Title: Development of potentially biodegradable cellulose nanocrystal reinforced pbs-hbpp bionanocomposites

Lovely Mathew, Viswajyothi College of Engineering and Technology, India

Title: Cross-linked polyethylene foams: how to change the perception of a commodity material starting from the (bio-based) source

Fabio Silvestri, Trocellen GmbH, Germany

Title: Processing optimization and characterization for pla/mgalcu-ldh/pvp composite microsphere

Shuhua Zhang, Shanghai University of Engineering Science, China

Title: Pyridine and bipyridine end-functionalized polylactide: Synthesis and catalytic applications

Marco Frediani, Università degli Studi di Firenze, Italy

Networking & Refreshment Break

Title: Poly (allylamine hydrochloride) reduced graphene oxide (rgo/pah) nanocarriers for potential application in non-viral gene therapy

Amit Jaiswal, IIT Mandi, India

Title: How can a single methyl group drastically affect the microstructure of an injected biocomposite reinforced with natural fibers ?

Antoine Gallos, Chaire ABI - AgroParisTech, France

Panel Discussion

Day 3 September 09, 2017

Amphitheatre

Keynote Forum

Introduction

Title: Biomass waste – A source of raw materials and nanocellulose

Matjaz Kunaver, National institute of chemistry, Slovenia

Title: Cyanobacteria as model organism for PHB production

Maximilian Lackner, University of Applied Sciences FH Technikum Wien, Austria

Networking & Refreshment Break

Sessions: Biodegradable polymers | Natural polymers | Biopolymer Feed Stock Challenges & Opportunities | Biopolymers in Biofibers & Microbial Cellulose

Session Chair: Marine Janvier, Chaire ABI - AgroParisTech, France

Session Co-chair: Amandine flourat, Chaire ABI - AgroParisTech, France

Title: Chemo-enzymatic synthesis and polymerizations of bio-based bisphenols derived from ferulic and sinapic acids

Marine Janvier, Chaire ABI - AgroParisTech, France

Title: Cosmetics, a new field of applications for the interpenetrating biopolymer network technology (ibpn technology®)

Dana Michel, SILAB, Brive, France

Title: Production of polyhydroxyalkanoate (PHA) biopolyesters based on food-industrial waste- and surplus materials

Martin Koller, University of Graz, Austria

Title: Identification of biologically active compounds from symphytum (boraginaceae)

Lela Amiranashvili, Tbilisi State Medical University, Georgia

Title: Synthesis and characterization of new biodegradable polymers with antiradical and antimicrobial activities

Amandine flourat, Chaire ABI - AgroParisTech, France

Title: Rheology of alcayota gum

Martin Masuelli, Universidad Nacional de San Luis, Argentina

YRF: Green composites based on PHA and natural fibres for applications in marine and land environments

Norma Mallegni, University of Pisa, Italy

YRF: Keratin from camel and cashmere hairs: processing evaluation

Yuejiao Yang, University of Trento, Italy

YRF: Multiple scale study of hydrothermal degradation in the interfacial regions of flax fiber/bio-based polyurethane composites

Yunlong Jia, Hamburg University of Technology, Germany

Bookmark your dates

8th World Congress on Biopolymers

9th International Conference on Bioplastics

June 28-29, 2018 Berlin, Germany

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Biopolymers

August 04-05, 2016 Manchester, UK

Scientific Program



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Rosewood Room

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Opening Ceremony

Keynote Forum

Introduction

Title: New concept of resorbable biopolymer hybrids for implant applications

Xiang Zhang, University of Cambridge, United Kingdom

Title: Novel approaches in hydrogel design from chemically-modified polysaccharides

Rachel Auzely Velly, University Grenoble Alpes, France

Title: Radiation processed textile sludge for preparing eco-friendly bricks

Mubarak Ahmad Khan, Bangladesh Atomic Energy Commission, Bangladesh

Networking and Refreshment Break

Sessions:

Advanced Biopolymers | Natural Polymers | Biopolymers in Biofibers & Microbial Cellulose

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

Session Introduction

Title: Biosynthesis of block copolymer for poly(3-hydroxyalkanoate)

Takahiko NAKAOKI, Ryukoku University, Japan

Title: Magnetism in metal-free phthalocyanine and graphite-like nanostructures

Armen Kocharian, California State University, USA

Title: Constrained amorphous interphase and mechanical properties of bio-based polyesters

Maria Cristina Righetti, National Research Council, Italy

Title: Effect of additives on properties of bio-based polymers and their blends

Patrizia CINELLI, National research Council, Italy

Title: Understanding the microphase morphology of concentrated cellulose solutions from their rheological behavior

Yumei Zhang, College of Material Science and Engineering, China

Group Photo @ Rosewood Room

Lunch Break

Title: Controlled simple green synthesis of smaller sized aqueous quasi-spherical polymer-capped silver nanoparticles

Samuel Oluwatobi Oluwafemi, University of Johannesburg, South Africa

Title: Preparation and characterization of organic montmorillonite- polyvinylalcohol-co-polyacrylic nanocomposite hydrogel for heavy metal uptake in water

Ehsan A. H. A. Gomaa, Ain Shams University, Egypt

Title: Organic modification and functionalization of biobased aromatics and their use in industrial polymer formulations

Elena Benedetti, AEP Polymers Srl, Italy

Title: Dissolution of cellulose in ionic liquids via polyelectrolyte interaction

Ye Chen, College of Material Science and Engineering, China

Title: Fabrication of reduced graphene oxide/chitosan-based conductive hydrogel for biomedical applications

Neslihan Alemdar, Marmara University, Turkey

Networking and Refreshment Break

Title: The effect of magnetic field on biophysical properties of different water samples

Amani Samy Hegazy, Ain Shams University, Egypt

Title: Immittance responses study of dodecyltrimethylammonium bromide effect on 2-hydroxyethyl cellulose solid biopolymer electrolytes

Mohd Ikmar Nizam Bin Haji Mohamad Isa, Universiti Malaysia Terengganu, Malaysia

Title: Lignin phenol formaldehyde resole resin: Synthesis and characteristics

Masoumeh Ghorbani, University of Natural Resources and Life Sciences, Austria

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

Title: Superior thermoplastics prepared entirely from lipids: Synthesis, structure and properties

Suresh S. Narine, Trent University, Canada

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

Session Introduction

Title: Study on curing condition of furan resin for matrix of green composites

Masatoshi Kubouchi, Tokyo Institute of Technology, Japan

Title: Bioactive nanofibrous systems based on natural materials

Elisa Mele, University Loughborough, United Kingdom

Title: Alcayota films: Effect of crosslinking

Martin AMasuelli, Stanford University, USA

Networking and Refreshment Break

Title: Development and characterization of bio nano cellulose reinforced polyamide nanocomposites prepared by electron spinning method

Lovely Mathew, Mahatma Gandhi University, India

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

Title: Bionanocomposites derived from natural hydrogel matrices: An application for water purification

Shivani Bhardwaj Mishra, University of South Africa, South Africa

Title: Maximum utilization of plant resources to produce edible nanocomposite bioplastics

Luiz Henrique Capparelli Mattoso, National Nanotechnology Laboratory for Agribusiness, Brazil

Title: Thermo sensitive gelling film mediated drug rectal delivery in the treatment of colorectal cancer

Lulu Wang, Institute of Materia Medica, China

Title: Conversion of lipids into biopolymers and conjugates

Aman Ullah, University of Alberta, Canada

Lunch Break

Poster Presentations

- 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-Il 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 - Al_2O_3 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

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

Title: Biodegradable and renewable polymers: How to contribute to a sustainable future

Andreas Kunkel, BASF SE, Germany

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

Title: Preparation and characterization of bacterial cellulose-based biomaterial as scaffolds for articular cartilage tissue engineering

Huaping Wang, Donghua University, China

Title: Biopolymers – Key actors in the medicine of the future

Francisco M Goycoolea, University of Leeds, UK

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

4th World Congress on

Biopolymers

September 07-09, 2017 Paris, France

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3rd International Conference and Exhibition on

Biopolymers & Bioplastics

September 12-14, 2016 San Antonio, Texas, USA



Hosting Organization:
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Scientific Program

Day 1 September 12, 2016

Registrations

Texas B

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Opening Ceremony

Keynote Forum

Introduction

Title: Structure property relationships of biobased epoxy resins

Richard A. Gross, Rensselaer Polytechnic Institute, USA

Title: Bio-based thermosets from star-like highly functional reactive resins

Dean C. Webster, North Dakota State University, USA

Title: Circular economy and sustainability of bioplastics and biobased materials: New challenges and future prospective

Amar Mohanty, University of Guelph, Canada

Group Photo and Coffee Break

Sessions: Biomaterials and Biopolymers

Session Introduction

Session Chair: David Grewell, Iowa State University, USA

Session Co-chair: Chang-Sik Ha, Pusan National University, Korea

Title: Political landscape for bioplastics and biobased materials

Rina Singh, Biotechnology Innovation Organization, USA

Title: Biopolymer based bionanocomposites

Chang-Sik Ha, Pusan National University, Korea

Title: Supramolecular polymers based on short peptides: Building on the building blocks of life

Rein V Ulijn, City University of New York, USA

Title: Free radical polymerization of acrylic monomers from plant oils

Andriy Voronov, North Dakota State University, USA

Title: The development of nonabsorbed potassium binding polymer microparticles (patiomer) for the treatment of hyperkalemia

Bo Chen, Relypsa Inc., USA

Title: Cellulose dissolution: promising approach for the preparation of composite materials

Noureddine Abidi, Texas Tech University, USA

Panel Discussion

Lunch Break

Sessions: Biomaterials and Biopolymers (Cont..)

Session Introduction

Session Chair: Richard A. Gross, Rensselaer Polytechnic Institute, USA

Session Co-chair: Noureddine Abidi, Texas Tech University, USA

Title: Synthesis of biobased nano composite materials: Metal nano particles stabilized in soy bean oil polymer

Baki Hazer, Bülent Ecevit University, Turkey

Title: Poly (glycerol-sebacate); A new bioelastomer with antimicrobial and immunomodulatory properties

Peter Gabriele, Secant Group, USA

Title: Multilayer core-sheath nanofiber scaffolds used in the differential release of bioactive molecules

Dula Man, Delaware State University, USA

Title: Reactive extrusion and in situ compatibilization of poly lactic acid and poly glycerol succinate: A sustainable way for toughening of PLA

Manjusri Misra, University of Guelph, Canada

Title: Production of an antimicrobial edible casein-based material

Elodie Chevalier, Université de Lyon, France

Coffee Break

Title: Facelift of PLLA: Effect of orientation on physical ageing in poly(L-Lactic Acid) films

Gagik Ghazaryan, ETH Zurich, Switzerland

Workshop Session

Title: Biocatalytic routes to monomers and polymers

Richard A. Gross, Rensselaer Polytechnic Institute, USA

Title: A chemical platform for the production of bio-PET

Ryan L. Smith, Micromidas Inc., USA

Panel Discussion

Day 2 September 13, 2016

Texas B

Keynote Forum

Title: Fully bio-based non-isocyanate polyurethanes (NIPU) via cyclic carbonate/amine route

Etienne Grau, University of Bordeaux, France

Title: Sustainable plastics and the center for bioplastics and biocomposites

David Grewell, Iowa State University, USA

Coffee Break

Sessions: Biopolymer applications | Plastic pollution and waste management

Session Chair: Amar Mohanty, University of Guelph, Canada

Session Co-chair: Johan Pluyter, International Flavors and Fragrances, USA

Title: Biopolymers in flavor and fragrance delivery systems

Johan Pluyter, International Flavors and Fragrances, USA

Title: Development of bio-based plywood adhesive utilizing protein recovered from hydrolyzed specified risk materials

Birendra B. Adhikari, University of Alberta, Canada

Title: Fabrication of multifunctional biopolymer composites with high performance by controlling the dispersion and distribution of graphene in the composites

Jinrui Huang, Chinese Academy of Forestry, China

Title: Novel tung oil-based unsaturated ester macromonomer for thermosetting polymers

Chengguo Liu, Chinese Academy of Forestry, China

Title: Creation of keratin resin and fibroin resin using fibrous animal waste products

Shinji Hirai, Muroran Institute of Technology, Japan

Title: Isolation and characterization of polyvinyl alcohol (PVA) degrading fungal strains from soils

Somayeh Mollasalehi, University of Manchester, UK

Lunch Break

Title: Biodegradation of biopolymers under soil and compost conditions

Asma Said Khalid Al Hosni, University of Manchester, UK

Workshop Session

Title: High Performance, high bio-content thermosets for composites and coatings

Dean Webster, North Dakota State University, USA

Panel Discussion

Coffee Break

Poster Presentations

BPBP-01 **Title: Biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) with high C₆-monomer composition from CO₂ by recombinant of *Ralstonia eutropha***

Kenji Tanaka, Kindai University, Japan

BPBP-02 **Title: Valorisation of food wastes through acidogenic fermentation**

María C Veiga, University of A Coruña, Spain

BPBP-03 **Title: Study on the curing characteristics and synthesis process of modified urea-formaldehyde resin with low formaldehyde release**

Jiyu Gu, Northeast Forestry University, China

- BPBP-04** Title: Thermal treatment of soybean protein and its effects on the water resistance of soybean protein adhesive
Zhen-Hua Gao, Northeast Forestry University, China
- BPBP-05** Title: Preparation and performance of water-borne acrylic wood coatings modified by rice husk ash
Shuangying Wei, Northeast Forestry University, China
- BPBP-06** Title: Comparative analysis between maize and cassava starch through XPS
Yanhua Zhang, Northeast Forestry University, China
- BPBP-07** Title: Zinc Oxide nanoparticles control skin infection and improve dermal wound healing in Humans
Rebeca Betancourt Galindo, Centro de Investigación en Química Aplicada, Mexico
- BPBP-08** Title: Surface modified chitin with silane as reinforcement in mortar composites
Anju Ramakrishnan, Indian Institute of Technology Madras, India
- BPBP-09** Title: The survival-dose effect model of microorganism implanted by low energy N⁺
Ning Zhang, Chinese Academy of Forestry, China

Best Poster Award Presentation

Day 3 September 14, 2016

Texas B

Keynote Forum

Title: Understanding biodegradability-The science, the misuse and true value proposition
Ramani Narayan, Michigan State University, USA

Workshop Session

Title: Bio-based and biodegradable compostable plastics: Logic, definitions and testing methods
Ramani Narayan, Michigan State University, USA

Coffee Break

Sessions: Routes to drop-in monomers and bioplastics | Future and scope for biopolymers and bioplastics | New-to-the-world biopolyesters

Session Chair: Oliver Ehlert, DIN CERTCO GmbH, Germany

Title: Certification of bioplastics – Standards and politics

Oliver Ehlert, DIN CERTCO GmbH, Germany

Title: PEF (polyethylene 2,5-furandicarboxylate): A new emerging biobased polyester from carbohydrates

Nathanael Guigo, University Nice Sophia Antipolis, France

Title: Biodegradable polymers from brewery wastewater

María C. Veiga, University of A Coruña, Spain

Title: Biopolymers-based active edible coatings to improve quality and safety of food products

Elena Poverenov, Agricultural Research Organization The Volcani Center, Israel

Panel Discussion

Award & Closing Ceremony

Lunch Break

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Scientific Program

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Keynote Forum

Introduction

Title: Plantics: Plastics made from plants

Gadi Rothenberg, University of Amsterdam, Netherlands

Title: Biomass waste- A source of raw materials and nanocellulose

Matjaž Kunaver, National Institute of chemistry, Slovenia

Group Photo & Coffee Break

Workshop

Avantium renewable chemistries update

Alan A Smith, Avantium Renewable Chemistries, Netherlands

Sessions: **Biobased Chemicals & Bioplastics** | **Noble Advances in Bioplastics** | **Methods of production of Bioplastics**

Session Chair: Maximilian Lackner, University of Applied Sciences FH Technikum Wien, Austria

Session Introduction

Title: Characterization and biodegradation of lactate-based polymer biosynthesized from renewable carbon sources

Seiichi Taguchi, Hokkaido University, Japan

Title: Market development of Kaneka biopolymer PHBH

Kenichiro Nishiza, Kaneka Belgium N.V, Belgium

Title: Novel bio-based elastomeric polymer based on semi-interpenetrating poly (3-hydroxyalkanoate)s and sunflower oil using a trithiol as crosslinking agent

Carine Mangeon, Université Paris Est, France

Title: Development of stable recombinant cyanobacteria for economically competent solar-fuel-factories: ethylene production

Veronica Carbonell, University of Turku, Finland

Panel Discussion

Lunch Break

Exhibitor Presentation

Braskem

Brendan, Braskem, Brazil

Sessions: **Biomaterials & Biopolymers** | **Plastic Pollution and Waste Management** | **Bioplastics Products**

Session Chair: Valerie Langlois, University Paris VI, France

Title: Biopolymers based multifunctional composite systems by electrospinning technique

Ilaria Cacciotti, University of Rome "Niccolo Cusano", Italy

Title: Tailoring functional PHA-based materials for biomedical applications

Valerie Langlois, University Paris Est (UPEC), France

Title: Biodegradable and compostable materials for packaging applications

Pilar Villanueva, AIMPLAS, Spain

Networking & Refreshment Break

Title: Reconstitution of collagen triple helix in physically crosslinked hydrogels and films

Daniel Brannum, Case Western Reserve University, USA

Title: Novel bio-based active release materials for biomedical applications

Tina Modjinou, Université Paris Est, France

Panel Discussion

Keynote Forum

Title: PBAT-A versatile material for biodegradable and compostable packagings

Maximilian Lackner, University of Applied Sciences FH Technikum Wien, Austria

Title: The development of commercial high-end applications of biopolymers

Bas Krins, Applied Polymer Innovations BV, Netherlands

Networking & Refreshment Break

Workshop

Title: Extending polylactide applications by overcoming its drawbacks

M.Reza Nofar, Istanbul Technical University, Turkey

Sessions: **Biocomposites** | **Applications of Bioplastics** | **Bioplastics Types**

Session Chair: Bas Krins, Applied Polymer Innovations BV, Netherlands

Session Introduction

Title: Potential natural additives and agro-industrial by-products in biopolymer formulations for active food packaging

María Carmen Garrigós, University of Alicante, Spain

Title: Design of nanocomposites by interfacing biopolymers with metal oxides and metal organic frameworks (MOFs)

Nathalie Steunou, Université Paris Saclay, France

Title: Dynamic metabolic control analysis on *Cupriavidus necator* predicts effects of environmental conditions on PHB production from glycerol

Chenhao Sun, The University of Manchester, UK

Title: Biocomposites reinforced with nanocellulose/graphene hybrid nanofillers

Sarah Montes, IK4-CIDETEC, Spain

Title: Thermal characterization of vegetable tannin reinforced TPU-based bio-composites

Fatma ERDOGAN, Ege University, Turkey

Title: Towards a biomass based polymer industry: Synthesis, characterization and process optimization of bioderived renewable polyesters

Mónica Lomelí-Rodríguez, University of Liverpool, UK

Panel Discussion

Lunch Break

Sessions: **Bioplastics Types**

Workshop

Title: Advances in the use of biobased resources in polymer products

Dawn A. Smith, Scion, New Zealand

Video Presentation

Title: Properties of hydrochloric chitosan solutions modified with nano-calcium phosphate complex

Luciano Pighinelli, Lutheran University of Brazil, Brazil

Title: Innovation trend on sustainable bioplastics: the case of furanoate

Valentina Siracusa, University of Catania, Italy

Poster Presentations

BP 01

Title: Study of frying oil use in biodiesel production, applying techniques of environmental management in university city UEMS/UFGD

Carmem Cicera Maria da Silva Campelo, Federal University of Grande Dourados, Brazil

BP 02

Title: Study of the degree and speed of disintegration of PLA commercial grades as a function of material shape and thickness

Elena Domínguez Solera, AIMPLAS, Spain

BP 03

Title: natural deep eutectic solvents based on choline chloride as a green plasticizer to produce chitosan based films

Hiléia K. S. Souza, University of Porto, Portugal

BP 04

Title: Keratin-based biomaterials

Sarah Montes, IK4-CIDETEC, Spain

- BP 05** **Title: MDBP- Microbial degradation of bio-polymers**
Asma Alhosni, The University of Manchester, UK
- BP 06** **Title: Influence of the water soluble polymer polyvinyl alcohol on compost and soil fungal communities**
Somayeh Mollasalehi, University of Manchester, UK
- BP 07** **Title: Flexible Edible Films based on babassu: Physical and Barrier Properties**
Farayde Matta Fakhouri, University of the Campinas, Brazil
- BP 08** **Title: Effect pink pepper oil incorporation in the mechanical properties of gelatin films**
Amanda Dambrós Pereira, University Federal of Grande Dourados, Brazil
- BP 09** **Title: Comparison of barrier properties and solubility films collagen based**
Cristina Tostes Filgueiras, Universidade Federal da Grande Dourados, Brazil
- BP 10** **Title: Viability study the use of glycerol transesterified in the production of biofilms**
Carmem Cicera Maria da Silva Campelo, Federal University of Grande Dourados, Brazil
- BP 11** **Biodegradability of thermoplastic resins based on P3HB biosynthesized from waste plant oil**
Tomas Porubsky, BUT, Czech Republic

Networking & Refreshment Break

Award & Closing Ceremony



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