Tentative Program

8th World Congress on Biopolymers & Bioplastics
June 28-30, 2018  Berlin, Germany

Interactive Sessions  Keynote Lectures  Plenary Lectures  Workshops
Exhibitors  B2B Meetings

***For available speaker slots***
biopolymercongress@chemseries.com
### Program at a Glance

#### Day 1

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<td>Coffee/Tea Break 10.45-11.00 (Networking)</td>
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#### Day 2

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<td>Keynote Forum</td>
<td>Biodegradable polymers</td>
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<td>10.40-10.55</td>
<td>Biopolymers in Biomedical Applications</td>
<td>Recycling &amp; Waste management of Biopolymers</td>
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<td>12.35-13.45</td>
<td>Biopolymers in Biofibers &amp; Microbial Cellulose</td>
<td>Future &amp; Scope of Biopolymers</td>
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<td>Workshop</td>
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**NOTE:** Program Schedule is subject to change with final allotment of the speaker slots

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For more Details PS: http://biopolymers.conferenceseries.com/
biopolymercongress@chemseries.com
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

For detailed sessions, please visit: https://biopolymers.conferenceseries.com/
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Best Tourist Destinations in Berlin
Scientific Program

JOINT EVENT

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

September 7-9, 2017  Paris, France
**Registrations**

**Day 1 September 07, 2017**

**Amphitheatre**

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**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

| Session Introduction |

**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 ground 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

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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

Title: Properties of bio-composites based on polylactic acid (PLA)/polycaprolactone (PCL)/cinnamon oil  
Rodolfo Rendon, CEPROBI-IPN, Mexico

Title: Structure and thermal degradation of pineapple leaf cellulose after treatment  
Siriwan Leesirisan, Department of Science Service, Thailand

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

Title: Elucidating Proton-mediated conformational changes in the acid-sensing Ion Channel 1a through molecular dynamics simulation  
Xuri Huang, Jilin University, China

Title: Influence of substitution of phenol by lignins in PF resins on the impregnation of Kraft paper  
Marion Thébault, Wood Carinthian Competence Center, Austria

Title: Biodegradability of PHA-based composites in marine and terrestrial environments  
Maurizia Seggiani, University of Pisa, Italy

Title: Edible films from kefiran and milk whey proteins as carrier of probiotic microorganisms  
Judith Piermaria, Centro de Investigación, Argentina

Title: Regulating the Acid-sensing ion channel 1a with psalmotoxin 1 through molecular dynamics simulation  
Xi Zhao, Jilin University, China

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 5α-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

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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

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Panel Discussion

Awards & Closing Ceremony

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Bookmark your dates

8th World Congress on Biopolymers
9th International Conference on Bioplastics

June 28-30, 2018  Berlin, Germany

E-mail: bioplastics@chemseries.com; biopolymercongress@chemseries.com
Website: biopolymers.conferenceseries.com
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 Velty, University Grenoble Alpes, France
Title: Radiation processed textile sludge for preparing eco-friendly bricks
Mubarak Ahmad Khan, Bangladesh Atomic Energy Commission, Bangladesh

Sessions:
Advanced Biopolymers | Natural Polymers | Biopolymers in Biofibers & Microbial Cellulose
Session Chair: Maria Cristina Righetti, National Research Council, Italy

Networking and Refreshment Break

Group Photo @ Rosewood Room

Lunch Break

Networking and Refreshment Break

Sessions:
Advanced Biopolymers | Natural Polymers | Biopolymers in Biofibers & Microbial Cellulose
Session Chair: Maria Cristina Righetti, National Research Council, Italy

Networking and Refreshment Break
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: 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

Poster Presentations

WCBP-01 Conformational transitions of uracil transporter-uraA from escherichia coli: A molecular simulation study  
Xiao 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 Alwuaib, 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

**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**
3rd International Conference and Exhibition on

Biopolymers & Bioplastics

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

Hosting Organization:
Conference Series LLC
2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA
Ph: +1-888-843-8169, Fax: +1-650-618-1417, Toll free: +1-800-216-6499
Email: biopolymer@conferenceseries.net
Keynote Forum

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

Sessions: Biomaterials and Biopolymers

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 (patiromer) 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

Sessions: Biomaterials and Biopolymers (Cont..)

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 C_{6}-monomer composition from CO₂ by recombinant of Ralstonia eutropha  
Kenji Tanaka, Kindai University, Japan

BPBP-02  
Title: Valorisation of food wastes through acidogenic fermentation  
Maria 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  
Jiyou 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 biopolymesters

Session Chair: Oliver Ehler, DIN CERTCO GmbH, Germany

Title: Certification of bioplastics – Standards and politics
Oliver Ehler, 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

Bookmark Your Dates

5th International Conference and Exhibition on

Biopolymers & Bioplastics

October 19-21, 2017 San Francisco, USA

Website: www.biopolymers-bioplastics.conferenceseries.com
International Conference on
Sustainable Bioplastics
November 10-11, 2016 Alicante, Spain

Scientific Program

Hosting Organization: Conference Series LLC
2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA

Conference Series Ltd
Heathrow Stockley Park Lakeside House, 1 Furzeground Way, Heathrow, UB11 1BD, UK, Tel: +1-800-216-6499
Email: bioplastics@conferenceseries.com; bioplastics@conferenceseries.net
### 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

### 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

**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 "Nicholo 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

**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

### Day 2 November 11, 2016

**Terra Lucis**
## Keynote Forum

<table>
<thead>
<tr>
<th>Title: PBAT-A versatile material for biodegradable and compostable packagings</th>
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<tr>
<td><strong>Maximilian Lackner</strong>, University of Applied Sciences FH Technikum Wien, Austria</td>
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<tr>
<th>Title: The development of commercial high-end applications of biopolymers</th>
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<tr>
<td><strong>Bas Krins</strong>, Applied Polymer Innovations BV, Netherlands</td>
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### Networking & Refreshment Break

## Workshop

<table>
<thead>
<tr>
<th>Title: Extending polylactide applications by overcoming its drawbacks</th>
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<tr>
<td><strong>M. Reza Nofar</strong>, Istanbul Technical University, Turkey</td>
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### Sessions: Biocomposites | Applications of Bioplastics | Bioplastics Types

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

### Session Introduction

<table>
<thead>
<tr>
<th>Title: Potential natural additives and agro-industrial by-products in biopolymer formulations for active food packaging</th>
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<tr>
<td><strong>Maria Carmen Garrigós</strong>, University of Alicante, Spain</td>
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<tr>
<th>Title: Design of nanocomposites by interfacing biopolymers with metal oxides and metal organic frameworks (MOFs)</th>
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<tr>
<td><strong>Nathalie Steunou</strong>, Université Paris Saclay, France</td>
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<tr>
<th>Title: Dynamic metabolic control analysis on <em>Cupriavidus necator</em> predicts effects of environmental conditions on PHB production from glycerol</th>
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<td><strong>Chenhao Sun</strong>, The University of Manchester, UK</td>
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<th>Title: Biocomposites reinforced with nanocellulose/graphene hybrid nanofillers</th>
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<td><strong>Sarah Montes</strong>, IK4-CIDETEC, Spain</td>
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<tr>
<th>Title: Thermal characterization of vegetable tannin reinforced TPU-based bio-composites</th>
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<td><strong>Fatma ERDOGAN</strong>, Ege University, Turkey</td>
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<tr>
<th>Title: Towards a biomass based polymer industry: Synthesis, characterization and process optimization of bioderived renewable polyesters</th>
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<tr>
<td><strong>Mónica Lomelí-Rodríguez</strong>, University of Liverpool, UK</td>
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### Panel Discussion

### Lunch Break

### Sessions: Bioplastics Types

### Workshop

<table>
<thead>
<tr>
<th>Title: Advances in the use of biobased resources in polymer products</th>
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<tr>
<td><strong>Dawn A. Smith</strong>, Scion, New Zealand</td>
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### Video Presentation

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<tr>
<th>Title: Properties of hydrochloric chitosan solutions modified with nano-calcium phosphate complex</th>
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<td><strong>Luciano Pighinelli</strong>, Lutheran University of Brazil, Brazil</td>
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<th>Title: Innovation trend on sustainable bioplastics: the case of furanoate</th>
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<tr>
<td><strong>Valentina Siracusa</strong>, University of Catania, Italy</td>
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### 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: 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 Title: Biodegradability of thermoplastic resins based on P3HB biosynthesized from waste plant oil
Tomas Porubsky, BUT, Czech Republic

Networking & Refreshment Break
Award & Closing Ceremony