3rd International Conference and Exhibition on

Biopolymers & Bioplastics

September 12-14, 2016    San Antonio, Texas, USA
### Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>09:25</td>
<td>Structure property relationships of biobased epoxy resins</td>
<td>Richard A. Gross,</td>
<td>Rensselaer Polytechnic Institute, USA</td>
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<tr>
<td>09:30-09:55</td>
<td>Title: Bio-based thermosets from star-like highly functional reactive resins</td>
<td>Dean C. Webster,</td>
<td>North Dakota State University, USA</td>
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<tr>
<td>09:55-10:20</td>
<td>Title: Circular economy and sustainability of bioplastics and biobased materials: New challenges and future prospective</td>
<td>Amar Mohanty,</td>
<td>University of Guelph, Canada</td>
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**Group Photo and Coffee Break: 10:45 -11:05 @ Foyer**

### Sessions: Biomaterials and Biopolymers

**Session Chair:** David Grewell, Iowa State University, USA  
**Session Co-chair:** Chang-Sik Ha, Pusan National University, Korea

**11:05-11:25**  | Title: Political landscape for bioplastics and biobased materials | Rina Singh, Biotechnology Innovation Organization, USA |

**11:25-11:45**  | Title: Biopolymer based bionanocomposites | Chang-Sik Ha, Pusan National University, Korea |

**11:45-12:05**  | Title: Supramolecular polymers based on short peptides: Building on the building blocks of life | Rein V Ulijn, City University of New York, USA |

**12:05-12:25**  | Title: Free radical polymerization of acrylic monomers from plant oils | Andriy Voronov, North Dakota State University, USA |

**12:25-12:45**  | Title: The development of nonabsorbed potassium binding polymer microparticles (patiromer) for the treatment of hyperkalemia | Bo Chen, Relypsa Inc., USA |

**12:45-13:05**  | Title: Cellulose dissolution: promising approach for the preparation of composite materials | Noureddine Abidi, Texas Tech University, USA |

**Panel Discussion 13:05 -13:10**

### Lunch Break: 13:10 - 14:10 @ Texas A

### Sessions: Biomaterials and Biopolymers (Cont..)

**Session Chair:** Richard A. Gross, Rensselaer Polytechnic Institute, USA  
**Session Co-chair:** Noureddine Abidi, Texas Tech University, USA

**14:10-14:30**  | Title: Synthesis of biobased nano composite materials: Metal nano particles stabilized in soy bean oil polymer | Baki Hazer, Bülent Ecevit University, Turkey |

**14:30-14:50**  | Title: Poly (glycerol-sebacate); A new bioelastomer with antimicrobial and immunomodulatory properties | Peter Gabriele, Secant Group, USA |

**14:50-15:10**  | 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: 15:50 - 16:05 @ Foyer

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 17:45 -18:00

Day 2   September 13, 2016
Texas B

Keynote Forum

10:00-10:25  Title: Fully bio-based non-isocyanate polyurethanes (NIPU) via cyclic carbonate/amine route
Etienne Grau, University of Bordeaux, France

10:25-10:50  Title: Sustainable plastics and the center for bioplastics and biocomposites
David Grewell, Iowa State University, USA

Coffee Break: 10:50 - 11:10 @ Foyer

Sessions: Biopolymer applications | Plastic pollution and waste management
Session Chair: Amar Mohanty, University of Guelph, Canada
Session Co-chair: Johan Puyter, International Flavors and Fragrances, USA

Title: Biopolymers in flavor and fragrance delivery systems
Johan Puyter, 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: 13:10 - 14:00 @ Texas A

14:00-14:20  Title: Biodegradation of biopolymers under soil and compost conditions
Asma Said Khalid Al Hosni, University of Manchester, UK

Workshop Session

14:20-15:30  Title: High Performance, high bio-content thermosets for composites and coatings
Dean Webster, North Dakota State University, USA

Panel Discussion 15:30-15:45

Coffee Break: 15:45 - 16:05 @ Foyer

Poster Presentations: 16:05-17:00 @ Foyer

BPBP-01  Title: Biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) with high C₆-monomer composition from CO₂ by recombinant ofRalstonia 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 17:00 - 17:15

Day 3  September 14, 2016

Texas B

Keynote Forum

09:00-09:25  Title: Understanding biodegradability–The science, the misuse and true value proposition  
  Ramani Narayan, Michigan State University, USA

Workshop Session

09:25-10:25  Title: Bio-based and biodegradable compostable plastics: Logic, definitions and testing methods  
  Ramani Narayan, Michigan State University, USA

Coffee Break: 10:25-10:45 @ Foyer

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

Session Chair: Oliver Ehler, DIN CERTCO GmbH, Germany

10:45-11:10  Title: Certification of bioplastics – Standards and politics  
  Oliver Ehler, DIN CERTCO GmbH, Germany

11:10-11:35  Title: PEF (polyethylene 2,5-furandicarboxylate): A new emerging biobased polyester from carbohydrates  
  Nathanael Guigo, University Nice Sophia Antipolis, France

11:35-12:00  Title: Biodegradable polymers from brewery wastewater  
  Maria C. Veiga, University of A Coruña, Spain

12:00-12:25  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 12:25 - 12:40

Award & Closing Ceremony

Lunch Break: 12:40 - 13:45 @ Texas A

Bookmark Your Dates

5th International Conference and Exhibition on Biopolymers & Bioplastics

October 19-21, 2017  San Francisco, USA

Website: www.biopolymers-bioplastics.conferenceseries.com