

Twenty-Second Meeting of the BioEnvironmental Polymer Society (BEPS 2014)

**Kansas City, Missouri, USA
14-17 October 2014**

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WEDNESDAY, 15TH OCTOBER, 2014

7:30 – 8:45 am	Breakfast Kauffman Foundation Conference Center – Town Square	
8:45 – 9:00	Welcome and Opening Address – Town Square Andy Myers	
9:00 – 9:45	Plenary 1 Zoran Petrovic – <i>Bio-Based Epoxy Resins</i> 3	
9:45 – 10:30	Plenary 2 Yu-Zhong Wang – <i>Bio-based Aliphatic Polyesters toward Improvement of their Performances</i> 4	
10:30 – 10:45	Break – Town Square	
	NANOCOMPOSITES – Troost	BIO-BASED MATERIALS – Brush Creek
10:45 – 11:15	Keynote A1 Greg Glenn - <i>Effect of High Amylose Starch & Mineral Nanoparticles on Alginate Films</i> 5	Keynote B1 Ivan Javni - <i>Glycerin Based Rigid Polyisocyanurate Foams</i> 11
11:15 – 11:45	Keynote A2 Ana Machado - <i>Development of cellulose acetate membranes containing nanoparticles for water applications</i> 6	Keynote B2 Eric Cochran - <i>Thermoplastic Elastomers From Triglycerides</i> 12
11:45 – 12:15	Keynote A3 John Dorgan - <i>Hierarchical Blended Nanocomposites</i> 7	Keynote B3 Victoria Finkenstadt - <i>Biobased Polymers for Corrosion Protection of Metals</i> 13
12:15 – 1:45	Lunch Kauffman Foundation Conference Center – Town Square	
1:45 – 2:15	Keynote A4 William Orts - <i>Application of Nano-Scaffolds to Improve Multi-Step Enzymatic Reactions</i> 8	Keynote B4 Erde Can - <i>Novel Cardanol Based Thermosetting Resins</i> 14
2:15 – 2:45	Oral A5 Andreas Mautner - <i>Nanopapers for Water Treatment Operations</i> 9	Oral B5 Olivera Bilic - <i>Soybean Oil-Based Non-Isocyanate Polyurethane Adhesives</i> 15
2:45 – 3:15	Oral A6 Hyun-Joong Kim – <i>Application and Development of Nano-Cellulose based Nano-Bio-Composites</i> 10	Oral B6 Jonggeun Sung - <i>Soybean Oil Based Resins for Transparent Flexible Coatings in Food Packaging</i> 16
3:15 – 3:30	Break – Town Square	
	END OF LIFE ISSUES – Troost	Brush Creek
3:30 – 4:00	Oral C1 Christoph Burgstaller - <i>Are Bioplastic Bags a Problem in The Mechanical Recycling of LDPE?</i> 19	Oral B7 Kirsi Mikkonen – <i>Bio-based and Biodegradable Aerogels Created By a Novel Enzymatic Oxidation Technology</i> 17
4:00 – 4:30	Oral C2 Gabriela Araceli Santiago-Juárez - <i>Biodegradation of Plastic Films By Anaerobic Digestion</i> 20	Oral B8 Yuya Tachibana – <i>Bio-based Polymers Derived from Furfural</i> 18
	Buses will be available to return to the Holiday Inn	
5:30 – 7:00	POSTER SESSION Holiday Inn – Heavy appetizers and drinks Dinner on your own in the Plaza	

THURSDAY, 16TH OCTOBER 2014

7:30 – 9:00 am	Breakfast Kauffman Foundation Conference Center – Town Square	
9:00 – 9:45	Plenary 3– Town Square Manjusri Misra - <i>Hybrid Biocomposites: Processing, Performance and Industrial Applications</i> 22	
9:45 – 10:30	Plenary 4– Town Square 23 Alexander Bismarck - TBA	
10:30 – 10:45	Break	
10:45 – 11:15	PROPERTIES & CHARACTERIZATION Troost	APPLICATIONS– Brush Creek
	Keynote D1 Nandika D'Sousa - <i>Structural, Thermal and Acoustic Performance of Polyurethane Foams for Green Buildings</i> 24	Keynote E1 Jinwen Zhang - <i>Exploring Use of Vegetable Oil Feedstocks in Engineering Polymer Applications</i> 30
11:15 – 11:45	Oral D2 Haijing Liu – <i>Physical and Chemical Properties of Fatty Acids Modified Soybean Proteins</i> 25	Oral E2 Stéphane Duchiron - <i>Enzymatic Ring Opening Polymerization of Polylactide – Effect of New Enzymes on the Final Macromolecular Architectures</i> 31
11:45 – 12:15 pm	Oral D3 Adriana Gregorova – <i>Humidity Response of Polymer Gels Determined By Dynamic Mechanical Analysis</i> 26	Oral E3 Marco Cinelli – <i>Multi-Criteria Decision Aid (MCDA) as a Support Tool for Green Chemistry of Nanoparticle Synthesis</i> 32
12:15 – 1:30	Lunch Kauffman Foundation Conference Center– Town Square	
1:30 – 2:00	Oral D4 – Troost 27 Shashi Pankaj – <i>Characterization of Dielectric Barrier Discharge Atmospheric Plasma Treated Sodium Caseinate Films</i>	Oral E4– Brush Creek 33 Andrew Wooldridge- <i>Biodegradable Nanocomposites Via Electrospinning</i>
2:00 – 2:30	Oral D5 Rajeswararao Nakka - <i>A Study on Antioxidant Activity & Thermal Properties on Gamma Irradiated Kraft Lignin</i> 28	Oral E5 Steffen Schellenberger - <i>Substitution of Non-Degradable Fluorinated Copolymers for Durable Water Repellent (DWR) Textile Modification</i> 34
2:30 – 3:00	Oral D6 Daniel Roberto Hernandez Ochoa – <i>Effect Of Fiber Orientation On The Mechanical Properties Of Continuous Date Palm Leaf - Glass Hybrid Fiber Reinforced Epoxy Composites</i> 29	Oral E6 Yonghui Li – <i>Plant Oil Derivatives and Adhesive Applications</i> 35
3:00 – 3:15	Break– Town Square	
	END OF LIFE ISSUES – Troost	Brush Creek
3:15 – 3:45	Oral C3 Sangeetha Ramaswamy – <i>Spinning and Weaving Technologies for Novel Compostable Biopolymers</i> 21	Oral E7 Xiuzhi Susan Sun - TBA 36
3:45 – 4:45	BEPS Business Meeting – Town Square (All are invited)	
6:00 – 6:30	Buses depart from Holiday Inn to Boulevard Brewery	
	Awards Banquet, Dinner & Drinks Boulevard Brewery, catered by Jack Stack Barbeque	
10:15 – 10:45	Buses return to Holiday Inn	

FRIDAY, 17TH OCTOBER 2014

7:30 – 9:00 am	Breakfast Kauffman Foundation Conference Center– Town Square
	Innovation and Entrepreneurs in the Biosciences
9:00 – 9:40	Plenary 5– Town Square 36 Mark Remmert - TBA
9:40 – 10:10	Plenary 6– Town Square 37 Andy Myers - Development Of Limonene-Based Polyols For Polyurethane Foams
10:10 – 10:25	Break
10:25 – 12:00 pm	Networking Event – Town Square <i>Funding Opportunities, Innovation, and Common Interests</i>
12:00 – 1:00	Lunch– Town Square Kauffman Foundation Conference Center (Lunches will be available to take with you)

Abstracts: Poster Presentations 39