



Pre-Conference Tutorial – 1 Day, September 30, 2014



Dr. Kelvin T. Okamoto, Green Bottom Line Inc.

Sustainability: Overview

1. Terminology and Definitions
2. Life Cycle Analysis
3. Regulations
4. Testing



Edwin Tam, Teknor Apex Company

Bioplastic Materials: Overview

1. Classes of Biopolymers/Bioplastics
2. Chemistry
3. Typical Properties
4. Typical Markets & Applications

Conference Date - October 1-2, 2014

Invite Speakers:



Willem De Vos, CEO, SPE, "Innovation in the Age of Interaction."



Kenneth Miller, President, KFM Associates, "Role of Bioplastics in a Circular Economy."

Conference Program Speakers and Companies

October 1 (Day 1)

Time	Speaker	Company	Title of Presentation
8:00 - 8:30 am			Registration
8:30 - 8:40 am	Edwin Tam	Teknor Apex	Welcome & House Keeping
8:40 - 9:10 am	Kevin Cai	Teknor Apex	High Bio Content Styrenic Block Copolymer Based Thermoplastic Elastomers
9:10 - 9:40 am	Sam McCord	MCG Biocomposites	"Sustainability-Renewability-Recyclability": Why Should We Be Concerned?
9:40 - 10:10 am	Samaneh Rahim	Michigan State University	Assessment of the Environmental Profile of Michigan Soybean Agriculture
10:10 - 10:30 am			Break, Tabletop Display & Networking
10:30 - 11:00 am	Lora Liang	Mondelez	Food Packaging Innovation Across The Supply Chain - a Brand Owner's Perspective
11:00 - Noon	Willem De Vos	SPE	Innovating in the Age of Interaction

Time	Speaker	Company	Title of Presentation
Noon - 1:30 pm			Lunch, Tabletop Display & Networking
1:30 - 2:00 pm	Doug Hirt	Clemson University	Effects of Temperature and Humidity on PLA Degradation
2:00 - 2:30 pm	Edwin Tam	Teknor Apex	Plasticized PLA Using Segetis Levulinic Acid
2:30 - 3:00 pm	Jeff Schneider	Michigan State University	Designing Poly(lactide) for Blown Film Applications
3:00 - 3:30 pm			Break, Tabletop Display & Networking
3:30 - 4:00 pm	Richard Freundlich	Metabolix	New Developments in Multifunctional PHA Copolymer Technology and Applications
4:00 - 4:30 pm	Ala Qattawi	Clemson University	A Comparative LCA of PP and PHBV Processed via Conventional and Microcellular Technologies for Automotive Interior Applications
4:30 - 5:00 pm	Alan Boardman	Brigham Young University	Process Evaluation and Characterization of Extrusion Blow Molded Potato Starch/High Density Polyethylene Compounds
5:30- 7:30 pm			Poster Session, Tabletop Exhibits, Networking Reception
Time	Name	Company	Title of Poster
5:30- 7:30 pm	Bali, Atishi	Michigan State University	Synthesis of Flexible Polyurethane Foams Using Vegetable Oil Based Polyols
5:30- 7:30 pm	Dewasthale, Sudhanwa	Michigan State University	Biobased Interpenetrating Polymer Networks (IPNs) Based on Silylated Soybean Oil and Polysiloxanes
5:30- 7:30 pm	Tambe, Chetan	Michigan State University	Synthesis of Silylated Soybean Oil Via ENE Reaction
5:30- 7:30 pm	Zhao, Yanjie	Michigan State University	Manufacture of Biobased Monomers and Value-added Products from Soybean Oil

October 2 (Day 2)

Time	Speaker	Company	Title of Presentation
8:00 - 8:10 am	Edwin Tam	Teknor Apex	Welcome & House Keeping
8:10 - 8:40 am	Ron Walling	Advanced Materials Center	Industrial Compostability Testing: An Update
8:40 - 9:10 am	Kelvin Okamoto	Green Bottom Line	ASTM Biodegradation Standards: An Update
9:10 - 9:40 am	Melanie Baugh	Recycle Your Organics	The Basics of Vermicomposting
9:40 - 10:10 am	Keisha Walters	Mississippi State University	Nanomechanical Properties of Bioplastics During Degradation

October 2 (Day 2) continue

Time	Speaker	Company	Title of Presentation
10:10 - 10:30 am			Break, Tabletop Display & Networking
10:30 - 11:00 am	Maik Feldmann	University of Kassel	Continuous-Fiber-Reinforced Engineering Thermoplastics from Renewable Raw Materials – Processing and Properties
11:00 - 12:00 am	Kenneth Miller	KFM-Associates	Role of Bio-Plastics in a Circular Economy
12:00 - 1:15 pm			Lunch, Tabletop Display & Networking
1:15 - 1:45 pm	Margaret Sobkowicz-Kine	University of Massachusetts, Lowell	Bioplastic Blends Compatibilized Using High Speed Reactive Extrusion
1:45- 2:15 pm	Alex Utracki	Coperion	Unit Operation Based Approach to Designing Bioplastic Processes on a Twin Screw Extruder
2:15- 2:45 pm	Robert Joyce	Innovative Plastics & Molding	Utilizing Thermoplastic Biopolymers for Light Weighting Parts in the Transportation Industry
2:45 - 2:55 pm	Edwin Tam	Teknor Apex	Thank You and Ending Remarks

WHO SHOULD ATTEND:

- This conference is intended for a range of companies and individuals involved in bioplastics development, production, sales, marketing, processing and end-use.
- R&D scientists and engineers, formulation scientists, process engineers, quality engineers and application engineers.
- Chemists and chemical engineers involved in development of biopolymers and bioplastics
- Development engineers and research scientists working on new bioplastics developments.
- Bioplastics users and application specialists
- Sales, Marketing, Market Development and Business Developments

Online Registration: <http://tinyurl.com/bioplasticstopcon>

Call Embassy Suite Hotel, Schaumburg, IL directly at 847-397-1313, Group Code: SPE

Questions? Contact:

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