Bio-based Materials: Ready for Mainstream?

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Joshua Cregger, Project Manager, CAR

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Agenda

8:00 a.m.  Registration and Networking Breakfast
8:30 a.m.  Welcome – Dr. Jay Baron, President & CEO

**Introductions and Moderator:** Valerie Sathe Brugeman, Senior Project Manager, CAR

- **Joshua Cregger,** Project Manager, Sustainability & Economic Development Strategies, CAR
- **Dr. Ellen Lee,** Technical Specialist, Materials Research R&A, Ford Motor Company
- **Dr. Rose Ann Ryntz,** Senior Director, Advanced Engineering, International Automotive Components (IAC)

**Networking Break**

- **Jim Preston,** Vice President, Business Development, RheTech
- **Henning Karbstein,** Manager, New Business Development and Idea Management, BASF
- **Q&A - Panel of Speakers**

11:00 a.m.  Adjourn
What Are Bio-Based Materials?
What Are Bio-Based Materials?

Products made from renewable feedstocks that replace conventional materials
What Are Bio-Based Materials?

**Natural Fibers:**
- Flax
- Hemp
- Sisal
- Kenaf
- Wheat straw

**Replace:**
- Fiberglass
- Talc

**Become Fillers and Reinforcements in:**
- Interior door panels & storage bins
- Trim
- Package trays
- Seatbacks
- Engine covers

**Bio-based Polymers:**
- Soybeans
- Corn
- Castor beans
- Sweet potatoes

**Replace:**
- Petroleum-Based Polymers

**Become Foams and Composites:**
- Foam seating
- Headliners
- Seat frames
- Floor mats
Bio-Based Materials Project Goals

• Build employment and facilitate new investment in bio-based materials manufacturing
• Identify and meet with stakeholders involved in the bio-based materials space
• Create a roadmap report describing gaps and opportunities to make products commercialization-ready
Bio-Based Materials Project Details

- Make it in America Challenge
- Project Partners
  - National Center for Manufacturing Sciences
  - Michigan Manufacturing Technology Center
  - Macomb Community College
  - Macomb/St. Clair Workforce Development Board
- Three year program
  - October 2013 - September 2016
Questions About the Report?  
Contact Us:

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