Workshop on Innovation in Lignocellusic Materials

Friday, December 13 at 7:30AM

Institute of Paper Science and Technology, Georgia Tech
500 10th Street, NW, Room 114

Atlanta, GA 30332

Organizers: Art Ragauskas and Preet Singh

Sponsors: Norman Marsolan (IPST), David McDowell (IMat), Ben Wang (GTMI)

7:30 AM

Continental breakfast

8:00 AM

Welcome and overview of IMat - David McDowell (ME, MSE)

8:15 AM

Georgia Tech and lignocellulosic research: a survey of current activities – Norman Marsolan (ChBE, IPST)

8:30 AM

Overview Presentations by Invited Speakers (10 min each + 5 min Q&A) Challenges, Gaps, Opportunities, and Capabilities for Lignocellulosic Research

- Bioenergy Forest Biorefining for Energy Dr. Art Ragauskas
- Chemicals Building Block Chemicals from Lignocellulosic Biomass Dr. Chris Jones
- Materials The Use of Cellulose Nanomaterials in Polymer Matrix Composites Dr. Meisha Shofner

9:15 AM

Short Presentations (5 min each + 5 min Q&A)

- Dr. Rosario Gerhardt
- Origins of Auxetic Behavior in Paper Dr. Anselm Griffin
- Control of Cellulose Wetting by Plasma Surface Modification Dr. Dennis W. Hess and Dr. Victor Breedveld
- Spectroscopic Studies on the Surface Reactions of Biomass-Derived Oxygenates Dr. Carsten Sievers
- Optical, Thermal, and Mechanical Property Characterization of Nanocellulose-Thermoset Composites Dr. Natalie Girouard (Dr. Carson Meredith)
- Cellulose Nanomaterials: unique properties and broad applications Dr. Yulin Deng
- Cellulose Nanomaterials: Opportunities in Composite Design Dr. Robert Moon
- Membranes and Adsorbents for Liquid Separations Dr. Sankar Nair
- Effect of pyrolysis conditions on the gasification reactivity of biomass char Dr. Pradeep Agrawal
- Organic electronics on cellulose nanocrystal films Dr. Canek Fuentes Hernandez
- Corrosion issues in Biorefineries Dr. Preet M. Singh

10:30 AM Break

11:00 AM: Discussion with Speaker Panel

Example Topics:

Where are the gaps and the strengths?

What opportunities may exist for doing something new?

Who are our competitors?

What are potential teaming arrangements?

Possible pathways?

Multi-industry workshop objectives and participants in 2014?

12:00 PM

Lunch provided