

# IBBC 2017

International Bioenergy & Bioproducts Conference

November 7-9, 2017 • Norfolk, VA



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## Innovations in Bioproducts & Bioeconomy

### Conference Program

(Subject to Change)

Monday, November 6, 2017	
<b>Bonus Bridge Sessions</b>	
<b>BONUS - PEERS Biorefinery Bridge Sessions</b>	
8:30 – 10:00 AM	<b>PEERS Opening Session &amp; Keynote</b> Robert Tiede, <i>Executive Vice President &amp; CEO Sonoco Products Co</i>
10:30 - 12:00 PM	<b>Session 5: Nonwood Fiber Products</b> Session Chair:
10:30 - 11:00 AM	<i>Open</i>
11:00 – 11:30 AM	A Novel One Step Method to Prepare Carboxycellulose Nanofibers from Raw Biomass and Their Applications to Remediation for Heavy Metal Ions - <i>Priyanka Sharma, Stony Brook University</i>
11:30 – 12:00 PM	Characterization of Pre-Hydrolyzed Banana ( <i>Musa sapientum</i> ) Stem Pulp to Find out Its Suitability as an Alternative Raw Material - <i>Atanu Kumar Das, PT. Indah Kiat Pulp and Paper Tbk</i>
12:00 – 1:30 PM	<b>Lunch</b>
3:30 – 5:00 PM	<b>Session 10: Nonwood Pulping &amp; Characterization</b> Session Chair:
3:30 – 4:00 PM	Does the Kappa Number Method Accurately Reflect Lignin Content in Nonwood Pulps - <i>Sabrina Burkhardt, Sustainable Fiber Technologies</i>
4:00 – 4:30 PM	<i>Open</i>
4:30 – 5:00 PM	Pilot Papermaking with Malaysian Oil Palm Empty Fruit Bunch Pulp: Part 3 - <i>Robert W. Hurter, HurterConsult Inc.</i>
5:00 – 6:30 PM	<b>Reception</b>

\*Additional registration fee required.

7:00 – 9:00 PM	PEERS Conference Networking Dinner*
<b>Tuesday, November 7, 2017</b>	
<b>Bonus Bridge Sessions</b>	
<b>BONUS - PEERS Biorefinery Bridge Sessions</b>	
<b>8:30 - 10:00 AM</b>	<b>Session 11: Biorefinery Bridge I</b> Session Chair: <i>Danny Haynes, AkzoNobel</i>
8:30 - 9:00 AM	Rapid Wood Fractionation $\leq 80^{\circ}\text{C}$ for Sustainable Productions of Pulp, Cellulose and Lignin Nanomaterials, and Sugar/Biofuels, <i>Jonyong (J.Y.) Zhu, US Forest Service R&amp;D, Forest Products Laboratory</i>
9:00 - 9:30 AM	Ethyl xylosides formation in SEW (AVAP®) fractionation of sugarcane straw; Implications for ethanol and xylose recovery - <i>Asif Sharazi, University of Maine</i>
9:30 - 10:00 AM	Kinetics of Prehydrolysis Process of Eucalyptus Urograndis Wood - <i>Rafael dos Santos, IFSP - Federal Institute of São Paulo</i>
<b>10:00 - 10:30 AM</b>	<b>Break</b>
<b>10:30 – 12:00 PM</b>	<b>Session 15: Biorefinery Bridge II</b> Session Chair: <i>Jonyong (J.Y.) Zhu, US Forest Service R&amp;D, Forest Products Laboratory</i>
10:30 – 11:00 AM	Developing Lignoboost for the End User Lignin Quality Requirements - <i>Kristin Lindholm, Valmet, Inc.</i>
11:00 – 11:30 AM	Characterization and Properties of Crosslinked Carboxymethylated Hemicellulose Hydrogels - <i>Wenhui Geng, NCSU</i>
11:30 – 12:00 PM	Technical-Economic Analysis of Electrochemical Production of Acetic Acid in Kraft Pulp Mills - <i>Joseph Genco, University of Maine</i>
<b>12:00 – 1:30 PM</b>	<b>Lunch</b>
<b>IBBC BEGINS</b>	
<b>1:30 - 3:00 PM</b>	<b>Session 1: IBBC Opening Session and Keynote Presentation</b> Mark DeAndrea, Domtar
<b>3:00 - 3:30 PM</b>	<b>Break</b>
<b>3:30 – 5:00 PM</b>	<b>Session 2: IBBC – Rapid Fire Showcase</b> Session Chair: <i>Jean Pierre Bousquet, Valmet</i>
<b>5:00 – 6:30 PM</b>	<b>IBBC Poster Session &amp; Reception</b>
<b>6:30 – 7:30 PM</b>	<b>Young Professionals Mixer</b>

\*Additional registration fee required.

## Wednesday, November 8, 2017

<b>8:30 - 10:00 AM</b>	<b>Session 3: Biomass I</b> <b>Session Chair:</b> <i>Danny Haynes, AkzoNobel</i>
8:30 - 9:00 AM	Economic feasibility of de-ashing of low-value forest residues for bioenergy applications - <i>Sudhagar Mani, University of Georgia</i>
9:00 - 9:30 AM	Potential of Sugarcane Wastes for Ethanol 2G Production - <i>Larisse Batalha, Federal University of Vicosa</i>
9:30 --10:00 AM	TMP-Bio Process for Lignocellulosic Biomass - <i>Zhirun Yuan, FPIInnovations</i>
<b>10:00 - 10:30 AM</b>	<b>Break</b>
<b>10:30 - 12:00 PM</b>	<b>Session 4: Biomass Torrefication</b> <b>Session Chair:</b> <i>Sudhagar Mani, University of Georgia</i>
10:30 – 11:00 AM	Multi-Objective Optimization of Torrefacted Biomass to Displace Coal in the Electricity Generation - <i>Maria Herrera, North Carolina State University</i>
11:00 – 11:30 AM	Safety Evaluation for the Conversion Process, Storage, Handling, Transportation and Utilization of Torrefied Biomass - <i>Justin Price, Evergreen Engineering LLC</i>
11:30 – 12:00 PM	<i>Open</i>
<b>12:00 – 1:30 PM</b>	<b>Lunch</b>
<b>1:30 – 3:00 PM</b>	<b>Session 5: Bio Case Studies</b> <b>Session Chair:</b> <i>Scott Curry, CQ Strategy Ltd.</i>
1:30 – 2:00 PM	Recent Lignin Activities at RISE Bioeconomy - <i>Per Tomani, RISE Bioeconomy</i>
2:00 – 2:30 PM	Operational Experience from Two Commercial Lignoboost Plants - <i>Kristin Lindholm, Valmet, Inc.</i>
2:30 – 3:00 PM	Lignin Recovered from Hot-Water Extracts of Angiosperm-Based Biomass Produced in 65ft3 Digester - <i>Aditi Naqardeolekar, SUNY-ESF</i>
<b>3:00 - 3:30 PM</b>	<b>Break</b>
<b>3:30 – 5:00 PM</b>	<b>Session 6: Biochemicals</b> <b>Session Chair:</b> <i>Adriaan Van Heiningen, University of Maine</i>
3:30 – 4:00 PM	Greener Method for Tannin and Lignin Extraction From the Yellow Birch Bark - <i>Adrien Faye, National Research Council of Canada</i>
4:00 – 4:30 PM	Imagine Chemistry- <i>Danny Haynes, AkzoNobel</i>
4:30 – 5:00 PM	Mapping Lignin Properties as a Strategy to Develop its Valorisation Pathways - <i>Olumoye Ajao, Natural Resources Canada, CanmetENERGY</i>
<b>5:00 – 6:00 PM</b>	<b>IBBC Committee Meeting</b>
<b>7:00 – 9:00 PM</b>	<b>IBBC Conference Dinner at Varia*</b>

\*Additional registration fee required.

## Thursday, November 9, 2017

<b>8:30 - 10:00 AM</b>	<b>Session 7: Bioconversion</b> <b>Session Chair:</b> <i>Jonyong (J.Y.) Zhu, US Forest Service R&amp;D, Forest Products Laboratory</i>
8:30 - 9:00 AM	A Three-Step Ferric Catalyzed Process for Phenolic Monomers and Free Sugars from Industrial Biomass Residues - <i>William Joe Sagues, University of Florida</i>
9:00 - 9:30 AM	Direct Carbonisation of Spray Dried Spent Liquors from Wood Pulping - <i>Janea Koehnke, University of Natural Resources and Life Sciences</i>
9:30 --10:00 AM	Kinetics of Alkyl Xylosides Decomposition in SO <sub>2</sub> -Alcohol-Water Spent Liquors for Solvent and Xylose Recovery - <i>Asif Sharazi, University of Maine</i>
<b>10:00 - 10:30 PM</b>	<b>Break</b>
<b>10:30 - 11:00 AM</b>	<b>Session 8: Bioprojects</b> <b>Session Chair:</b> <i>Danny Haynes, AkzoNobel</i>
10:30 – 11:00 AM	Brands and Biorefineries: Driving Value in Bio-Based Products - <i>Timothy Staub, Green Biologics</i>
11:00 – 11:30 AM	Forest Plantation and Harvesting Systems for Eucalyptus Biomass Investments in Florida USA - <i>Jeff Wright, Durania LLC</i>
11:30 – 12:00 PM	Creative US and International Debt and Equity Funding Mechanisms for Bioeconomy Technology Companies and Projects - <i>Mark Riedy, Kilpatrick Townsend and Stockton LLP</i>
<b>12:00 PM</b>	<b>IBBC Concludes</b>

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