

IBBC 2017

International Bioenergy & Bioproducts Conference

November 7-9, 2017 • Norfolk, VA



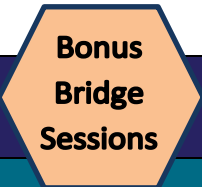
Innovations in Bioproducts & Bioeconomy

Conference Program

(Subject to Change)

Monday, November 6, 2017	
Bonus Bridge Sessions	
BONUS - PEERS Biorefinery Bridge Sessions	
8:30 – 10:00 AM	PEERS Opening Session & Keynote Robert C. Tiede , Executive Vice President & COO, Sonoco Products Company “Disrupter or Disrupted? – How Innovation Defines Your Destiny”
10:30 - 12:00 PM	Session 5: Nonwood Fiber Production Session Chair: John DeJarnette, WestRock
10:30 - 11:00 AM	Non Woods in Today’s Marketplace - Mark Lewis, Sustainable Fiber Technologies
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 - Priyanka Sharma, Stony Brook University
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 - Atanu Kumar Das, PT. Indah Kiat Pulp and Paper Tbk & Asian Institute of Technology (AIT)
12:00 – 1:30 PM	Lunch
3:30 – 5:00 PM	Session 10: Nonwood Pulping & Characterization Session Chair: Aamirah Allykhan, Econotech
3:30 – 4:00 PM	Does the Kappa Number Method Accurately Reflect Lignin Content in Nonwood Pulps - Sabrina Burkhardt, Sustainable Fiber Technologies
4:00 – 4:30 PM	Pilot Papermaking with Malaysian Oil Palm Empty Fruit Bunch Pulp: Part 3 - Robert W. Hurter, HurterConsult Inc.
5:00 – 6:30 PM	Reception

*Additional registration fee required.

7:00 – 9:00 PM	PEERS Conference Networking Dinner*
Tuesday, November 7, 2017	
BONUS - PEERS Biorefinery Bridge Sessions	
	
8:30 - 10:00 AM	Session 12: Biorefinery Bridge I Session Chair: <i>Danny Haynes, AkzoNobel</i>
8:30 - 9:00 AM	Rapid Delignification of Wood at 80°C using an Easily Recyclable Hydrotropic Acid: Potential for Pulp Production, <i>Jonyong (J.Y.) Zhu, US Forest Service R&D, Forest Products Laboratory</i>
9:00 - 9:30 AM	Ethyl xylosides formation during SO ₂ -Ethanol-Water (SEW) pulping of sugarcane straw - <i>Adriaan van Heiningen, University of Maine</i>
10:00 - 10:30 AM	Break
10:30 – 12:00 PM	Session 16: Biorefinery Bridge II Session Chair: <i>Jonyong (J.Y.) Zhu, US Forest Service R&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	Kinetics of Deacetylation of Northeast Hardwood - <i>Joseph Genco, University of Maine</i>
12:00 – 1:30 PM	Lunch
IBBC BEGINS	
1:30 - 3:00 PM	Session 1: IBBC Opening Session and Keynote Presentation Mark F. DeAndrea, VP & Business Unit Leader, BioMaterials, Domtar Transformation of Pulp and Paper and the Opportunity Called Biomaterials
3:00 - 3:30 PM	Break

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3:30 – 5:00 PM	Session 2: IBBC – Rapid Fire Showcase Session Chair: <i>Jean Pierre Bousquet, Valmet</i>
	<ul style="list-style-type: none"> - Creating a Talent Pipeline for the Bioeconomy in the Midwest – <i>Jacqueline Pohlman, Diana Nastasis, and Courtney Breckenridge, NCERC at SIUE</i> - Screening of Picochlorum Oklaomenis (PO) Microalgae as Raw Materials for Biodiesel Production and Treatment for Animal Wastewater – <i>Maria Antonieta Marin Flores, OSU</i> - Techno-economic Feasibility of Alkali Extraction of Hemicellulose Prior to Bioethanol Production for Switchgrass, Sugarcane Bagasse, and Poplar - <i>Wenhui Geng, NCSU</i> - Lignin to Chemicals and Hydrogen – <i>Xu Du, Wei Lieu and Yulin Deng, Renewable Bioproducts Institute at Georgia Institute of Technology</i> - Biorefinery Approach Using Agro- Residues for Optimum Extraction of Reduction Sugars for Bioethanol Prior to Pulp and Paper Making – <i>Shuank Malik and Soumya Basu, Forest Research Institute</i> - Direct Ink Write (DIW) 3D Printed Cellulose Nanofiber Aerogel Structures - <i>Vincent Li, Arie Mulyadi, Conner K. Dunn, Yulin Deng and H. Jerry Qi, Georgia Institute of Technology</i> - GIS based assessment of forest residues to supply torrefied and densified solid biofuels to coal power plants - <i>Sudhagar Mani, Sebastian Granados, University of Georgia</i> - Expanding Biorefinery Product Streams: Properties of Residual Wood Fraction Following Hydrothermal Treatment – <i>Neil Kohan, and WB Smith, TE Amidon</i> - Torrefied Biomass to Displace Coal in the Electricity Generation - <i>Maria Alejandra Herrera, Stephen S. Kelley, and Yuan Yao, North Carolina State University</i>
5:00 – 6:30 PM	IBBC Poster Session & Reception
6:30 – 7:30 PM	Young Professionals Mixer
Wednesday, November 8, 2017	
8:30 - 10:00 AM	Session 3: Biomass I Session Chair: <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 Lignocellulic Biomass - <i>Zhirun Yuan, FPIInnovations</i>
10:00 - 10:30 AM	Break
10:30 - 12:00 PM	Session 4: Biomass Torrefaction Session Chair: <i>Sudhagar Mani, University of Georgia</i>
10:30 – 11:00 AM	Techno-Economic Assessment of Integrated Torrefaction and Briquetting Technology, <i>Sudhagar Mani, University of Georgia</i>
11:00 – 11:30 AM	Multi-Objective Optimization of Torrefied Biomass to Displace Coal in the Electricity Generation - <i>Maria Alejandra Herrera, North Carolina State University</i>
11:30 – 12:00 PM	Torrefied Biomass Safety Evaluation- <i>Justin Price, Evergreen Engineering LLC</i>
12:00 – 1:30 PM	Lunch

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1:30 – 3:00 PM	Session 5: Bio Case Studies Session Chair: Scott Curry, CQ Strategy Ltd.
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 Nagardeolekar, SUNY-ESF</i>
3:00 - 3:30 PM	Break
3:30 – 5:00 PM	Session 6: Biochemicals Session Chair: Adriaan Van Heiningen, University of Maine
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	Lignin Mapping as a Strategy to Enhance Valorisation - <i>Olumoye Ajao, Natural Resources Canada, CanmetENERGY</i>
5:00 – 6:00 PM	Biorefinery Committee Meeting
7:00 – 9:00 PM	IBBC Conference Dinner at Varia*
Thursday, November 9, 2017	
8:30 - 10:00 AM	Session 7: Bioconversion Session Chair: Jonyong (J.Y.) Zhu, US Forest Service R&D, Forest Products Laboratory
8:30 - 9:00 AM	A Lignin-First Approach to Biorefining: Utilizing Fenton's Reagent for the Production of Phenolics and Sugars - <i>William Joe Sagues, University of Florida</i>
9:00 - 9:30 AM	Straight Carbonisation of Spray Dried Spent Liquors from Wood Pulping - <i>Janea Köehnke, University of Natural Resources and Life Sciences</i>
9:30 –10:00 AM	Alkyl Xylosides Decomposition in SO ₂ -Alcohol-Water (SEW) Spent Liquors for Solvent Recovery- <i>Adriaan van Heiningen, University of Maine</i>
10:00 - 10:30 PM	Break
10:30 - 12:00 AM	Session 8: Bioprojects Session Chair: Danny Haynes, AkzoNobel
10:30 – 11:00 AM	Brands and Biorefineries: Driving Value in Bio-Based Products - <i>Timothy Staub, Consultant, presenting on behalf of Green Bioloaics</i>
11:00 – 11:30 AM	Forest Plantation and Harvesting Systems - <i>Eucalyptus Biomass Investments in Florida USA - 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>
12:00 PM	IBBC Concludes

*Additional registration fee required.