

IBBC 2017

International Bioenergy & Bioproducts Conference

November 7-9, 2017 • Norfolk, VA



tappi-ibbc.org



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 Tiede, Executive Vice President & CEO Sonoco Products Co
10:30 - 12:00 PM	Session 5: Nonwood Fiber Products Session Chair:
10:30 - 11:00 AM	Open
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 (Musa sapientum) Stem Pulp to Find out Its Suitability as an Alternative Raw Material - Atanu Kumar Das, PT. Indiah Kiat Pulp and Paper Tbk
12:00 – 1:30 PM	Lunch
3:30 – 5:00 PM	Session 9: Nonwood Pulping & Characterization Session Chair:
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	Sugar Cane Straw as Raw Material for Pulp Production by the FibraResist Technology - Cesar Merenda, FibraResist
4:30 – 5:00 PM	Pilot Papermaking with Malaysian Oil Palm Empty Fruit Bunch Pulp: Part 3 - Robert W. Hurter, HurterConsult Inc.
5:00 – 6:30 PM	Reception
7:00 – 9:00 PM	PEERS Conference Networking Dinner*

*Additional registration fee required.

Tuesday, November 7, 2017

**Bonus
Bridge
Sessions**

BONUS - PEERS Biorefinery Bridge Sessions

8:30 - 10:00 AM	Session 11: Biorefinery Bridge I Session Chair: Danny Haynes, AkzoNobel
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&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>
10:00 - 10:30 AM	Break
10:30 - 12:00 PM	Session 15: Biorefinery Bridge II Session Chair: Jonyong (J.Y.) Zhu, US Forest Service R&D, Forest Products Laboratory
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>
12:00 - 1:30 PM	Lunch
IBBC BEGINS	
1:30 - 3:00 PM	Session 1: IBBC Opening Session and Keynote Presentation Mark DeAndrea, Domtar
3:00 - 3:30 PM	Break
3:30 - 5:00 PM	Session 2: IBBC - Rapid Fire Showcase Session Chair: Jean Pierre Bousquet, Valmet
5:00 - 6:30 PM	IBBC Poster Session & Reception
6:30 - 7:30 PM	Young Professionals Mixer

*Additional registration fee required.

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 Lignocellulosic Biomass - <i>Zhirun Yuan, FPIInnovations</i>
10:00 - 10:30 AM	Break
10:30 - 12:00 PM	Session 4: Biomass Torrefication Session Chair: <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</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>
12:00 – 1:30 PM	Lunch
1:30 – 3:00 PM	Session 5: Bio Case Studies Session Chair: <i>Virginie Chambost, EnVertis Consulting Inc.</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>
3:00 - 3:30 PM	Break
3:30 – 5:00 PM	Session 6: Biochemicals Session Chair: <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>
5:00 – 6:00 PM	IBBC Committee Meeting
7:00 – 9:00 PM	IBBC Dinner*

*Additional registration fee required.

Thursday, November 9, 2017

8:30 - 10:00 AM	Session 7: Bioconversion Session Chair: <i>Jonyong (J.Y.) Zhu, US Forest Service R&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 ₂ -Alcohol-Water Spent Liquors for Solvent and Xylose Recovery - <i>Asif Sharazi, University of Maine</i>
10:00 - 10:30 PM	Break
10:30 - 12:00 PM	Session 8: Bioprojects Session Chair:
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>
12:00 PM	IBBC Concludes

*Additional registration fee required.