

# IBBC 2018


International  
Bioenergy &  
Bioproducts  
Conference

October 28-31, 2018 • Portland, OR

## CONFERENCE PROGRAM

(Subject to Change)

As of 10-05-18

Monday, October 29, 2018	
8:30AM – 10:00AM	<b>Session 1: Opening Session &amp; Keynote ✓</b> <b>Session Chair: Mark P. LeBel, Andritz</b> <b>Nippon Paper Industries – Shaping the Future with Trees</b> <i>John Carpenter, President, Nippon Dynawave Packaging</i>
10:00AM – 10:30AM	Break
3:30PM - 5:00PM	<b>Session 10: Nonwood</b> <b>Session Chair: Gary Breaux, Solvay</b>
	Pulping and TCF Bleaching of Canadian Wheat Straw and Oat Straw - <i>Robert (Bob) Hurter, HurterConsult, Inc.</i>  Characteristics and Potential of Sulfur-Free Nonwood Lignin, <i>Sabrina J. Burkhardt, Sustainable Fiber Technologies</i>  Cannabis, a Higher Style of Pulping, <i>Mark Lewis, Sustainable Fiber Technologies</i>
5:00PM-7:00PM	<b>Welcome Reception &amp; Exhibit</b>
7:00PM-9:00PM	<b>PEERS Conference Networking Dinner**</b> <b>Sponsored by:</b> 
Tuesday, October 30, 2018	
6:45AM - 8:30AM	<b>Hot Topic Breakfast</b>  Bleach Plant Scale Control Moderator: <i>Peter W. Hart, WestRock</i>  Nonwood Moderator: <i>Mark Lewis, Sustainable Fiber Technologies</i>

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	<p>Bleach Plant Optimization: Where to Use the Various Bleaching Chemical in Bleaching Sequence Moderator: <i>Brian N. Brogdon, Future Bridge Consulting Services LLC</i></p> <p>Black Liquor Firing Techniques Moderator: <i>Pasi H. Miikkulainen, Andritz</i></p> <p>Overview of APPTI Alliance Moderator: <i>David Turpin, APPTI</i></p> <p>Tariff Impacts to the Paper Industry Moderator: <i>Meg Murphy, Felker Brothers</i></p>
<b>7:00AM – 8:00AM</b>	<b>Paper Chase Fun Run/Walk</b>
<b>7:00AM – 8:15AM</b>	<b>Speaker Breakfast</b>
<b>8:30AM – 10:00AM</b>	<p><b>Session 1: IBBC Keynote</b>  <b>Session Chair: <i>R. Daniel Haynes, AkzoNobel Specialty Chemicals</i></b>  <b>The Pulp and Paper Industry - What Do You See?</b>  <i>Martin Pudlas, VP Operations and Innovation - Canfor Pulp</i></p>
<b>10:00AM – 10:30AM</b>	<b>Break &amp; Exhibit</b>
<b>10:30AM – 12:30PM</b>	<p><b>Session 2: Torrefaction and Densification Technologies</b>  <b>Session Chair: <i>Sudhagar Mani, University of Georgia</i></b></p>
	<p>Torrefied of Biomass-Status of Development, Market Requirements, Supply Chain Evaluation and Comparison - <i>Michael Wild, Wild&amp;Partner LLC</i></p> <p>Integrated Biomass Torrefaction and Densification Plant: Process Modeling and Plant Economics - <i>Sudhagar Mani, University of Georgia</i></p> <p>Licensing Torrefaction and Densification Technologies - <i>Hiroshi Morihara, HM3 Energy</i></p> <p>High Moisture Pelleting Studies in a Pilot Scale Ring Die Pellet Mill with 1 ton/h Throughput - <i>Jayashankar Tumuluru, Idaho National Laboratory (INL)</i></p>
<b>12:00PM – 1:30PM</b>	<b>Lunch &amp; Exhibit</b>
<b>12:30PM – 1:30PM</b>	<b>Biorefinery Committee</b>
<b>1:30PM - 3:00PM</b>	<p><b>IBBC Session 3: Biorefinery Infrastructure</b>  <b>Session Chair: <i>Scott Curry, CQ Strategy Ltd.</i></b></p>
	<p>Failure Analysis of Wood Gasifier Vessels - <i>James Keiser, Oak Ridge National Laboratory</i></p> <p>Valmet's "BIO" Efforts – <i>Jean-Pierre Bousquet, Valmet</i></p> <p>Techno-Economic Assessment of Pulp Mill Infrastructure Integration with the Alcohol-to-Jet Pathway for Aviation Fuel Production - <i>Scott Geleynse, Washington State University</i></p>
<b>3:00PM – 3:30PM</b>	<b>Break &amp; Exhibit</b>
<b>3:30PM – 5:00PM</b>	<p><b>IBBC Session 4: Rapid Fire Showcase</b>  <b>Session Chair: <i>Jean-Pierre Bousquet, Valmet</i></b></p>

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	<p>A New Process for Catalytic Fractionation of Organo-Solv Lignin to Biofuels and High-Value Added Chemicals - <i>Joseph Molle, University of Wisconsin-Stevens Point</i></p> <p>Wood Quality and Pulpability of Eucalyptus Woods Affected by Physiological Disturbance - <i>Juliana Marangon Jardim, North Carolina State University</i></p> <p>Fractionation of Lignin Recovered from Hot-Water Extracts of Angiosperms and its Application in Synthesis of Lignin-Based Products - <i>Aditi Nagardeolekar, SUNY-ESF</i></p>
<b>5:00PM - 6:30PM</b>	<b>Reception &amp; IBBC Student Poster Session and Competition, and Exhibit</b>
	<p>A New Process for Catalytic Fractionation of Organo-Solv Lignin to Biofuels and High-Value Added Chemicals - <i>Joseph Molle, University of Wisconsin-Stevens Point</i></p> <p>Wood Quality and Pulpability of Eucalyptus Woods Affected by Physiological Disturbance - <i>Juliana Marangon Jardim, North Carolina State University</i></p> <p>Fractionation of Lignin Recovered from Hot-Water Extracts of Angiosperms and its Application in Synthesis of Lignin-Based Products - <i>Aditi Nagardeolekar, SUNY-ESF</i></p>
<b>6:30PM - 7:30PM</b>	<p><b>Young Professionals Mixer</b>  Rock Bottom Restaurant &amp; Brewery  206 SW Morrison St., Portland, OR 97204</p>
<b>7:00PM – 9:00PM</b>	<p><b>IBBC Conference Dinner**</b>  Red Star Tavern  503 SW Alder St., Portland, OR 97204</p>
<b>Wednesday, October 31, 2018</b>	
<b>6:45AM - 8:30AM</b>	<p><b>Hot Topic Breakfast</b></p> <p>Increasing Kiln Reliability  Moderator: <i>Glenn M. Hanson III, Industrial Kiln &amp; Dryer Group</i></p> <p>Reduction Efficiency Measurements  Moderator: <i>Thanh Trung, FITNIR Analyzers Inc.</i></p> <p>Improving Kraft Pulping/Pulp Yield  Moderator: <i>Hasan Jameel, North Carolina State University</i></p> <p>O<sub>2</sub> Delignification Optimization/Benchmarking  Moderator: <i>Tom Mullen, Process Innovations</i></p> <p>Keeping Composure in Difficult Situations  Moderator: <i>Heather Jennings, Probiotic Solutions</i></p> <p>Value Add Products from Lignin  Moderator: <i>R. Daniel Haynes, AkzoNobel Specialty Chemicals</i></p> <p>Water Handling (non-boiler) Corrosion. It's Not Always MIC</p>

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	Moderator: <i>Sandy Sharp, SharpConsultant</i>
<b>7:00AM – 8:15AM</b>	<b>Speaker Breakfast</b>
<b>8:30AM – 10:00AM</b>	<b>IBBC Session 5: Lignin to Whatever</b> <b>Session Chair: <i>Peter Axegård, C-Green Technology AB</i></b>
	Unlocking the Potential of Industrial Grade Lignin for Enhancing Sustainability and Performance of the Polyurethane Insulation Foam – <i>Pratheep Kumar Annamalai, The University of Queensland</i>
	Fractionation of Lignin Recovered from Hot-Water Extracts of Angiosperms and its Applications in Synthesis of Lignin-Based Products – <i>Aditi Nagardeolekar, SUNY-ESF</i>
	Selecting Solvents for Lignin Value Prior to Pulping - <i>Thomas T. Kwok, Georgia Institute of Technology</i>
<b>10:00AM – 10:30AM</b>	<b>Break</b>
<b>10:30AM – 12:00PM</b>	<b>IBBC Session 6: Value Added Products Part I</b> <b>Session Chair: <i>Adriaan van Heiningen, University of Maine</i></b>
	Turning Bio-Sludge into Bio-Carbon Through Zero-Energy Hydrothermal Carbonization - <i>Peter Axegård, C-Green Technology AB</i>
	Alternative Pulping Process for Paper and High Value-Added Biochemical Production - <i>Ali Manesh, American Science &amp; Technology Co.</i>
	Mechanical Pulp with Added Value and Lower COD - <i>Oleg Shagaev, Andritz AG</i>
<b>12:00PM – 1:30PM</b>	<b>Lunch</b>
<b>1:30PM – 3:00PM</b>	<b>IBBC Session 7: Value Added Products Part II</b> <b>Session Chair: <i>Jean- Pierre Bousquet, Valmet</i></b>
	Electrochemical Salt Split for Mill Sodium Sulfur Balance Control – <i>Kalle Pelin, AkzoNobel Pulp and Performance Chemicals</i>
	Imagine Chemistry-An Open Innovation Approach to Sustainability Across the Manufacturing Process - <i>R. Daniel Haynes, AkzoNobel Specialty Chemicals</i>
	Production of Sulfuric Acid from the Incineration of Pulp Mill Non-Condensable Gases-A Biorefinery Concept – <i>Eevi Smolander, Valmet Technologies, Inc.</i>
<b>3:00PM – 3:30PM</b>	<b>Break</b>
<b>3:30PM – 5:00PM</b>	<b>IBBC Session 8: NanoTechnology</b> <b>Session Chair: <i>R. Daniel Haynes, AkzoNobel Specialty Chemicals</i></b>
	Nanocellulose: A Breakthrough Technology for the Bioeconomy – <i>Mikhail Iakovlev, American Process</i>
	Effects of Fiber Morphological Characteristics on Selected Properties of Fiberboard - <i>Babak Mirzaei, Collins Company</i>
<b>5:00</b>	<b>IBBC Concludes</b>

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