



PROGRAM TRACKS

Career Development ✓	Engineering, Reliability, Corrosion & Materials	Energy, Recovery, Lime Kiln and Recast	Environmental
Nonwood	Pulping & Bleaching	Recycling Forum	Sustainability
IBBC Conference		ICRC Conference	

PROGRAM

AS OF 05/01/21 (SUBJECT TO CHANGE)

Sunday, November 7, 2021	
7:00AM – 6:30PM	Registration Open
7:30AM – 4:00PM	Bleach Plant Operations Workshop**
8:00AM – 4:00PM	Brown Stock Washing Workshop**
8:00AM – 4:00PM	Problem Solving in Pulp Mills – Lean Six Sigma Workshop**
8:00AM – 4:00PM	On-Line Digital Twin Technology for your Plant - Have your DCS Communicate with a Live Simulation Model**
10:30AM – 11:30AM	Energy, Recovery, and Recast Steering Committee Meeting
11:00 AM - 1:30PM	Lunch for Workshop Attendees Only
12:00PM – 1:00PM	Joint Team Review of Conference Logistics*
1:00PM - 4:00PM	Engineering Division & Pulp Manufacture Division Council Meeting*
4:00PM - 5:00PM	Nonwood Fiber Committee Meeting
4:00PM - 5:00PM	Alkaline Pulping & Bleaching Committee Meeting
5:00PM – 7:00PM	Welcome Reception & Exhibit
7:00PM – 9:30PM	PEERS Awards Dinner*

* Invitation Only

** Additional registration fee required

*** Pre-registration required

Monday, November 8, 2021

6:30AM – 6:30PM	Registration Opens
7:00AM – 8:15AM	Speaker Breakfast (Monday Speakers Only)
7:30AM – 8:30AM	Women in Industry/Young Professionals Breakfast
8:30AM – 10:00AM	Session 1: Opening Session & Keynote ✓ Session Chair: <i>Tom Mullen, Process Innovations</i> Keynote:
10:00AM – 10:30AM	Coffee Break & Exhibit Open
10:30AM – 12:00PM	Session 2: Opportunities for More Efficient Maintenance and Operations Session Chair: <i>Meg Murphy, INFab, LLC</i>
	Performance and Effectiveness of Contemporary Cleaning Systems – <i>Steven Johnson, Kadant Black Clawson, LLC</i>
	Where RCM Fits in the Maintenance Process - <i>Jay Shellogg, Strategic Maintenance Reliability</i>
	Modeling Considerations for Stock Flow Using Pipe-Flo - <i>Naomi Ballenger, Jacobs</i>
10:30AM – 12:00PM	Session 3: State of the Industry ✓ Session Chair:
	TBA
10:30AM – 12:00PM	Session 4: Pulp and Liquor Improvements Session Chair:
	DD-Washer Performance Optimization Using Latest Measurement Technology - <i>Riku Kopra, South-Eastern Finland University of Applied Sciences</i>
	Improved High Kappa Continuous Kraft Pulping – A Mill Study - <i>Raquel Bohn Stoltz, Valmet AB</i>
	White & Black Liquor Oxidation Systems - <i>Rohan Bandekar, NORAM Engineering</i>
10:30AM – 12:00PM	ICRC Session 1:
	TBD
10:30AM – 12:00PM	ICRC Session 2:
	TBD
12:00PM – 1:30PM	Lunch & Exhibit Open
12:00PM - 1:20PM	Engineering Division Committee of Chairs

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12:00PM – 1:30PM	Young Professionals Lunch ✓
1:30PM – 3:00PM	Energy, Recovery and Recast Main Committee Meeting
1:30PM – 3:00PM	Session 5: Pulping with Better Control Session Chair: TBA
	<p>Virtual Sensor System for Pulp Fiberline Predictive Control - <i>Danilo Soares, IndustriALL</i></p> <p>Optimal Control Strategy for Refining Process in Thermo-mechanical pulp mill by Integration of Genetic Algorithm and Neural Network - <i>Behnam Talebjedi, Aalto University</i></p> <p>Measure, Control and Optimize Causticizing Efficiencies in Pulp Manufacturing - <i>David Zerr, Consultant</i></p>
1:30PM – 3:00PM	Session 6: New Technology Showcase ✓ Session Chair:
3:00PM – 3:30PM	Refreshment Break & Exhibit Open
3:30PM – 5:00PM	Session 7: Nonwoods Session Chair:
	TBA
3:30PM – 5:00PM	Session 8: Pine Chemicals Recovery Enhance Revenue Panel Discussion Moderator: <i>Mathias Lindström, International Paper</i>
	Panelists:
3:30PM – 5:00PM	ICRC Session 3:

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	TBA TBA TBA
3:30PM – 5:00PM	ICRC Session 4:
	TBA TBA TBA
3:30PM – 5:00PM	Energy, Recovery and Reconst Sub-Committee Meetings Energy Subcommittee (ERR) Lime Kilns & Reconst Subcommittee (ERR) Recovery & Power Boilers Subcommittee (ERR) Water Treatment Subcommittee (ERR)
3:30PM – 5:00PM	Corrosion & Materials Engineering Main Committee
3:30PM – 5:00PM	Environmental & Sustainability Working Group
5:00PM – 6:30PM	Reception & Exhibit Open
7:00PM – 9:00PM	PEERS Conference Networking Dinner**
Tuesday, November 9, 2021	
6:30AM – 6:30PM	Registration Open
6:45AM – 8:30AM	Hot Topic Breakfast I***
6:45AM – 8:00AM	PaperChase Fun Run/Walk**
7:00AM – 8:15AM	Speaker Breakfast (Tuesday Speakers Only)
8:30AM – 10:00AM	IBBC Session 1: IBBC Keynote Session Chair: <i>Jean-Pierre Bousquet, Valmet USA, Inc.</i> <i>Thomas Meth, ENVIVA</i>
10:00AM – 10:30AM	Coffee Break & Exhibit Open
10:00AM – 12:00PM	Session 9: Pump Reliability: Considerations for Utilizing Spares and Making System Modifications Session Chair: <i>Subra Arasakesari, International Papers</i>
	Considerations When Modifying Pump System Operating Conditions - <i>Naomi Ballenger, Jacobs</i> Stop Swapping Your Pumps - <i>Jay Shellogg, Strategic Maintenance Reliability</i>

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10:30AM – 12:00PM	Session 10: Environmental Session Chair:
10:30AM – 12:00PM	Session 11: Bleach Plant Benchmarking and Optimization Session Chair: <i>Tom Mullen, Process Innovations</i>
	Using Bleaching Stage Models for Bench-Marking Softwood ECF Bleach Plants - <i>Brian Brogdon, Future Bridge Consulting Services LLC</i> Bleach Plant Optimization at the WestRock Panama City Pulp Mill - <i>Philip Sekerak, ERCO Worldwide</i> Z-ECF and Z-TCF of Softwood Kraft Pulp Bleaching - <i>Alexis Metais, Xylem</i>
10:30AM – 12:00PM	Session 12: Making Packaging Compatible with Paper Recycling Panel Discussion Moderator: <i>Carl Houtman, USDA, Forest Products Lab</i>
	Panelist:
10:30AM – 12:00PM	IBBC Session 2: TBA Session Chair: <i>Jayashankar Tumuluru, Idaho National Laboratory (INL)</i>
	TBA TBA TBA
10:30AM – 12:00PM	Session 13: Evaporator Optimization Session Chair: TBA
	Black Liquor Evaporators Upgrade – How Many Effects? - <i>James Cantrell, Jacobs Engineering</i> Causes of Solid Residue Precipitated from Stripped Condensates - <i>Torsten Meyer, University of Toronto</i> Preventing Fouling and Increasing Energy Efficiency in Evaporators with Software-Guided Power Ultrasound - <i>Esteban Soto, Altum Technologies</i>
10:30AM – 12:00PM	Session 14: Maintenance Issues for Rotary Kilns Panel Discussion Moderator: <i>J. Peter Gorog, Houghton Cascade Holdings LLC</i>
	Panelists: <i>Josh Brant, Andritz</i> <i>Palle Hansen, Valmet</i> <i>Justin Bready, Kiln Technology</i>

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12:00PM – 1:20PM	2022 PEERS Technical Program Planning Meeting*
12:00PM – 1:30PM	Lunch & Exhibit Open
12:30PM – 1:30PM	Biorefinery Committee
1:30PM – 2:30PM	Fiber Recycling Committee
1:30PM – 3:00PM	Session 15: Environmental Session Chair: TBA
	TBA
1:30PM – 3:00PM	Session 16: Developments in Bleaching Session Chair: TBA
	<p>Practical Brightening for Low-pH Kraft Pulp Through In Situ Creation Of Peracetic Acid From Peracetate - <i>Howard Kaplan, Kaplan Consulting, LLC</i></p> <p>Some Preliminary Results on Oxygen Addition to D-Stage Bleaching (D/O) - <i>Raymond C. Francis, SUNY ESF</i></p> <p>Enhancing the Competitiveness and Sustainability of the Indian Paper Industry – UNIDO’s Interventions for Adoption of Best Available Technologies - <i>Rakesh Jain, United Nations Industrial Development Organisations (UNIDO)</i></p>
1:30PM – 3:00PM	Session 17: Recovery Boiler Uptime Session Chair: TBA
	<p>Possibilities to Extend Uninterrupted Operations Periods of Kraft Recovery Boilers – <i>Keijo Salmenoja, ANDRITZ Oy</i></p> <p>High Velocity Thermal Spray & Modified Alloys for Sulfidation Mitigation - <i>Kevin Phillips, Integrated Global Service</i></p> <p>Black Liquor Spraying Orientation Determination in Kraft Recovery Boiler - <i>Heikki Lappalainen, ANDRITZ OY</i></p>
1:30PM – 3:00PM	IBBC Session 3: Innovative Bioproducts and Biopolymers from Biomass-Part I Session Chair: <i>Sudhagar Mani, University of Georgia</i>
	<p>Bio-based Solutions for the Replacement of Single-use Plastics in Packaging Applications - <i>Stephane Lariviere, FPInnovations</i></p> <p>Sorghum as a novel biomass for the sustainable production of cellulose nanofibers - <i>Jordan Pennells, Australian Institute for Bioengineering and Nanotechnology</i></p> <p>The Effects of Hot Water Extraction and Recovered Lignin Addition on Fuel Pellet Properties - <i>Autumn Elniski, SUNY-ESF</i></p>

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1:30PM – 3:00PM	ICRC Session 5:
	TBA TBA TBA
3:00PM – 3:30PM	Refreshment Break & Exhibit Open
3:30PM – 5:00PM	Session 18: Reliability Centered Maintenance Best Practices Panel Discussion Session Chair: <i>Rebecca Knecht, Evergreen Engineering, Inc.</i>
(Co-Sponsored by Plant Engineering & Project Management & Corrosion & Materials Engineering Committees)	Panelists:
3:30PM – 5:00PM	Session 19: Pulping Yields Bleach Shrinkage Panel Discussion Moderator: <i>Brain Brogdon, Future Bridge Consulting Services LLC</i>
	Panelists:
3:30PM – 5:00PM	Session 20: TBA Session Chair: TBA
	Improve Deinking Flotation from the Fundamental Research - <i>Kaiwu Huang, Virginia Tech</i> Hydrapulper Consistency Control - <i>Nick Stabler, Pneu-Logic Co.</i>
3:30PM – 5:00PM	Session 21: Recovery Boiler Online Analysis Moderator: TBA
	Maximizing Recovery Boiler Availability with an Online Ash Analyzer and Ash Balance Advisor - <i>Matti Selkala, Valmet Automation Inc.</i> Reliable and Fast Method to Measure Carryover in Kraft Recovery Boilers - <i>Heikki Lappalainen, ANDRITZ OY</i> Development of an Online Near-Infrared Spectroscopy Analyzer for the Determination of Kraft Black - <i>Matthew Tomkins, FPInnovations</i>
3:30PM – 5:00PM	IBBC Session 4: Innovative Bioproducts and Biopolymers from Biomass -Part II Session Chair: <i>Sudhagar Mani, University of Georgia</i>
	Kraft Lignin Production at West Fraser's Hinton Mill Using the LignoForce™ System - <i>Michael Paleologou, FPInnovations</i> Life Cycle Assessment of Construction-grade Thermoplastics from Organosolv Lignin - <i>Matthew Aro, Natural Resources Research Institute</i> Swift Kraft Lignin Depolymerisation under Hydrothermal Conditions - <i>Ahlbom Anders, Chalmers</i>

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3:30PM – 5:00PM	IBBC Session 5: Rapid-Fire Showcase
3:30PM – 5:00PM	ICRC Session 6:
5:00PM – 6:30PM	Reception and Exhibit Open
6:30PM – 7:30PM	Young Professionals Mixer
7:00PM – 9:00PM	IBBC Conference Dinner**
Wednesday, November 10, 2021	
6:30AM – 12:00PM	Registration Open
6:45AM – 8:30AM	Hot Topic Breakfast II***
7:00AM – 8:15AM	Speaker Breakfast (Wednesday Speakers Only)
8:30AM – 10:00AM	Plant Engineering & Project Management & Corrosion & Materials Engineering* (Joint Meeting)
8:30AM – 10:00AM	Session 22: Pulping Panel Discussion Moderator:
	Panelists:
8:30AM – 10:00AM	IBBC Session 6: IBBC Biomass Conversion Pathways Session Chair: <i>Jean-Pierre Bousquet, Valmet USA, Inc.</i>
	Imperata cylindrica; A New Bioethanol Potential with Hydrolysis of β -1,4 Glycosidic Binding and Fractional Distillation as A Futuristic Green Energy - <i>Ai Samrotul Hasanah, Women in Science</i>
	Green Milling of Biomass and its Effect on Conversion Process Green Milling of Biomass and its Effect on Conversion Process - <i>Atanu Kumar Das, Swedish University of Agricultural Sciences</i>
	Understanding the Effect of Kraft Pulping Process upon Lignin Precipitation and Lignin Properties - <i>Jardim, Juliana Marangon, North Carolina State University</i>
8:30AM – 10:00AM	Session 23: Liquor Cycle Efficiency and Improvements Session Chair: TBA

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	<p>Evaluating the Effect of Recovery Boiler Operation on Dregs Behavior Using Multivariate Data Analysis - <i>Elizabeth Maggs, University of Toronto</i></p> <p>Green Liquor Clarification Improvement Utilizing Existing Tank and Vessel in Mills - Robert Carlstrom, Valmet Paper AB</p> <p>Chemical Recovery and Reausticizing Improvements: Increase White Liquor Production - <i>Matthew Broere, Domtar</i></p>
8:30AM – 10:00AM	ICRC Session 7:
	TBA TBA TBA
10:00AM – 10:30AM	Coffee Break
10:30AM – 12:00PM	IBBC Session 7: IBBC Supporting the Sustainable Bioeconomy Session Chair: Jayashankar Tumuluru, Idaho National Laboratory (INL)
	<p>Sustainable, Renewable Biowax Alternatives for Paraffin - <i>David Grillo, Chemol</i></p> <p>Market Manager for Green Industries - <i>John Barber, Clestral</i></p> <p>TBA - <i>Sudhagar Mani, University of Georgia</i></p>
10:30AM – 12:00PM	Session 24: Lime Kiln Operations Session Chair: TBA
	<p>Improving Lime Recovery Kiln Operation using CFD Modeling - <i>Glenn Hanson, Metso Outotec</i></p> <p>Visualization of Multiscale Ring Formation in a Rotary Kiln - <i>Lee Rippon, University of British Columbia</i></p> <p>How do Mud Balls form in Lime Kilns? - <i>John Hinton-Barber, ERCO Worldwide</i></p>
10:30AM – 12:00PM	ICRC Session 8: Session Chair:
12:00PM – 1:00PM	2021 PEERS Conference Wrap up Meeting*
12:00PM	PEERS & IBBC Concludes
1:00PM – 4:00PM	RBI Tour

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