



PROGRAM TRACKS

10/28/22 (SUBJECT TO CHANGE)

Career Development ✓	Engineering, Reliability, Corrosion & Materials	Energy, Recovery, Lime Kiln and Recaust	Environmental
Nonwood	Pulping & Bleaching	Recycling	Sustainability
IBBC Conference			
Sunday, October 30, 2022			
7:00AM–6:30PM	Registration Open <i>Location: 5th Floor Ballroom ABC Pre-Function – Conference Center</i>		
7:30AM–4:00PM	Bleach Plant Operations Workshop** <i>Location: Washington Room – Omni Hotel</i>		
8:00AM–4:00PM	Brown Stock Washing Workshop** <i>Location: Newport Room – Omni Hotel</i>		
10:30AM–11:30AM	Energy, Recovery, and Recaust Steering Committee Meeting* <i>Chair: Thanh Trung, FITNIR Analyzer Inc.</i> <i>Location: Bristol Room – Omni Hotel</i>		
11:00AM–1:30PM	Lunch for Workshop Attendees Only <i>Location: Providence Foyer – Omni Hotel</i>		
12:00PM–1:00PM	Joint Team Review of Conference Logistics* <i>Chair: Emma Ragauskas, TAPPI</i> <i>Location: Bristol Room – Omni Hotel</i>		
1:00PM–4:00PM	Engineering Division & Pulp Manufacture Division Council Meeting* <i>Chairpersons:</i> <i>Danny Tandra, Clyde Industries Inc.</i> <i>Mathis Lindström, International Paper</i> <i>Location: Bristol Room – Omni Hotel</i>		
4:00PM–5:00PM	Nonwood Fiber Committee Meeting <i>Chair: Gary Breaux, Solvay</i> <i>Location: Washington Room – Omni Hotel</i>		
4:00PM–5:00PM	Alkaline Pulping & Bleaching Committee Meeting <i>Chair: Dan Nicholson, Solenis</i>		

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	<i>Location: Newport Room – Omni Hotel</i>
5:00PM–7:00PM	Welcome Reception & Exhibit (Sponsored by Voith) VOITH <i>Location: Ballroom ABC – Conference Center</i>
6:30PM-9:00PM	Awards Dinner* <i>Location: IL Massimo Restaurant</i>
Monday, October 31, 2022	
6:30AM–6:30PM	Registration Opens <i>Location: 5th Floor Ballroom ABC Pre-Function – Conference Center</i>
7:00AM–8:15AM	Speaker Breakfast (Monday Speakers & Session Chairs Only) <i>Location: Rotunda – Conference Center</i>
8:30AM–10:00AM	Session 1: Opening Session & Keynote ✓ Session Chair: Matthew Tunnicliffe, FPIInnovations <i>Location: Ballroom DE – Conference Center</i> Papermaking of the Future: Leading Solutions for the Most Sustainable and Efficient Papermaking Process Keynote: David Buchanan, President, Voith North America
10:00AM–10:30AM	Coffee Break & Exhibit Open <i>Location: Ballroom ABC – Conference Center</i>
10:30AM–12:00PM	Session 2: State of the Industry ✓ Session Chair: Heather Jennings, Probiotic Solutions <i>Location: Ballroom DE – Conference Center</i> Panelists: <i>Bob Fieck, ND Paper Inc.</i> <i>Bob White, Pulmac Systems International</i> <i>Larry Anker, Solenis, LLC</i>
12:00PM–1:30PM	Lunch & Exhibit Open <i>Location: Ballroom ABC – Conference Center</i>
12:00PM-1:20PM	Engineering Division Committee of Chairs <i>Chair: Danny Tandra, Clyde Industries Inc.</i> Location: Bristol Room – Omni Hotel
1:30PM–3:00PM	Energy, Recovery, and Reconst Main Committee <i>Chair: Thanh Trung, FITNIR Analyzer Inc.</i> Location: Providence 1 & 4 – Omni Hotel
1:30PM–3:00PM	Session 3: New Technology Showcase ✓ Session Chair: Scott Curry, Paper Excellence <i>Location: Ballroom DE – Conference Center</i> How Static Optics FTIR Allows a Revolution in Recovery Boiler Control—real Time, Continuous Measurement of Critical Inputs and Outputs - <i>Jonathon Speed, Keit Spectrometers</i> Steam and Energy Controls Coordination for a Power Island Operation - <i>Benoit Janvier, Enero Solutions</i>

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	<p>How to Measure and Control Causticizing Efficiencies in Pulp Manufacturing - David Zerr, <i>Pulmac Systems International</i></p> <p>Burner Technology for Alternative Fuels in Tissue Dryers – <i>Toni Kokkonen, Andritz</i></p> <p>Intelligent Sootblowing, Sootblower Safety, and Maintenance Made Easy with Clyde Industries’ SMART Clean and Fitness-To-Operate (FTO) Sensors - <i>John Edenfield, Clyde Industries, Inc.</i></p> <p>Advanced TDS Measurement Technology for Brownstock Washing Optimization- <i>Keijo Pyörälä, Vaisala</i></p> <p>Pulpasil® 737E – The Versatile Pulp mill Defoamer - <i>Raj Prasad, Wacker Chemical Corporation</i></p> <p>On-Line Digital Twin Technology for your Plant - Have your DCS communicate with a Live Simulation Model - <i>Steve Crotty, Andritz</i></p> <p>IPSE GO: Cloud-based Process Simulation for Pulp and Paper Mills - <i>Michael Erbes, Enginomix, LLC</i></p>
3:00PM–3:30PM	<p>Refreshment Break & Exhibit Open <i>Location: Ballroom ABC – Conference Center</i></p>
3:30PM-5:00PM	<p>Environmental & Sustainability Working Group <i>Heather Jennings, Probiotic Solutions</i> <i>Location: 551 – Conference Center</i></p>
3:30PM–5:00PM	<p>Energy, Recovery and Recaust Sub-Committee Meetings</p> <p>Energy Subcommittee – <i>Location: Providence 2 & 3 – Omni Hotel</i> <i>Chair: Ben Bunner, Andritz</i></p> <p>Lime Kilns & Recaust Subcommittee – <i>Location: Providence 1 & 4 – Omni Hotel</i> <i>Chair: J. Peter Gorog, Houghton Cascade Holdings LLC</i></p> <p>Recovery & Power Boilers Subcommittee - <i>Location: Bristol – Omni Hotel</i> <i>Chair: Ryan P. Henry, Green Bay Packaging</i></p> <p>Water Treatment Subcommittee - <i>Location: L Kent – Omni Hotel</i> <i>Chair: Fred Call, Buckman</i></p>
3:30PM-5:00PM	<p>Fiber Recycling Committee Meeting <i>Chair: Marty Daniel, Thiele Kaolin Company</i> <i>Location: Newport – Omni Hotel</i></p>
3:30PM-5:00PM	<p>Session 4: Bleach Plant Benchmarking and Optimization Session Chair: Dan Nicholson, Solenis <i>Location: 556 – Conference Center</i></p>
	<p>Using Bleaching Stage Models for Benchmarking Softwood ECF Bleach Plants - <i>Brian N. Brogdon, Future Bridge Consulting Services, LLC</i></p>

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	<p>You Have Several Bleaching Stages, Why Don't You Use Them? - <i>James Goldman, BTG Services</i></p> <p>Bleach Plant Benchmarking and the Sequence Kappa Factor (SKF) Flaw - <i>Tom Mullen, Process Innovations, LLC</i></p>
3:30PM-5:30PM	<p>Session 5: Pump and Pipe Reliability Session Chair: <i>Meg Murphy INFab LLC/O'Neal Inc.</i> <i>Location: 555 – Conference Center</i></p>
	<p>Modeling Considerations for Stock Flow Using Hydraulic Modeling Software - <i>Sylvia Ciampa, Jacobs; Dominik Fry, Revalize</i></p> <p>Stop Swapping Your Pumps & Start Testing Them Instead...Reliability Leadership - <i>Jay Shellogg, Strategic Maintenance Reliability</i></p> <p>Under Pressure - Pump Underperformance from System Changes - <i>Naomi Ballenger, Pam Jordan, Jacobs</i></p> <p>Ultrasonic Technology – <i>Markus Eklund, Altum Technologies</i></p>
5:00PM-6:30PM	<p>Reception & Exhibit Open <i>Location: Ballroom ABC – Conference Center</i></p>
7:00PM-9:00PM	<p>PEERS Conference Networking Dinner** <i>Location: Narragansett AB – Omni Hotel</i></p>
Tuesday, November 1, 2022	
6:30AM-6:30PM	<p>Registration Open <i>Location: 5th Floor Ballroom ABC Pre-Function – Conference Center</i></p>
6:45AM-8:30AM	<p>Hot Topic Breakfast I*** (Sign-up Sheets Will be at Registration) <i>Location: 557 – Conference Center</i></p> <p>Balancing ClO₂ in the Bleach Plant - <i>James Goldman, BTG</i></p> <p>Fluff Pulp Testing and Quality Discussions - <i>Dan Nicholson & Franklin Zambrano, Solenis</i></p> <p>Papermaking with Non-wood Fiber Pulps - <i>Mark Lewis, Sustainable Fibre Technologies</i></p> <p>The Effects of Recovery Boiler Operations on Dregs Behavior - <i>Honghi Tran, University of Toronto</i></p> <p>Recent and Emerging Changes in pFAS Regulations - <i>Fred Call, Buckman</i></p> <p>Material Availability & Supply Issues - <i>Meg Murphy INFab LLC/O'Neal Inc.</i></p>

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	Transitioning to a Circular Bioeconomy - <i>Zachary Bacon, Valmet</i>
6:45AM–8:00AM	PaperChase Fun Run/Walk** (5K Run/2Mile Walk) <i>Location: India Creek Park</i>
7:00AM–8:15AM	Speaker Breakfast (Tuesday Speakers & Session Chairs Only) <i>Location: Rotunda – Conference Center</i>
8:30AM–10:00AM	IBBC Session 1: IBBC Keynote Session Chair: <i>Sudhagar Mani, University of Georgia</i> <i>Location: Ballroom DE – Conference Center</i> Black Pellet; Ready to Explode; The Future of Low/No Value Fibre Recycling Keynote: <i>Richard G. Spinks, President, ICE Pacific</i>
10:00AM–10:30AM	Coffee Break & Exhibit Open <i>Location: Ballroom ABC – Conference Center</i>
10:30AM–12:00PM	Session 6: Corrosion Control for Aggressive Environments Session Chair: <i>Scott Curry, Paper Excellence</i> <i>Location: 551 – Conference Center</i>
	Relining of a Chlorine Dioxide Storage Tank–A Case History - <i>Jeff Eisenman, Maverick Applied Science, Inc.</i> Effect of Surface Modification on Corrosion Control of Type 409SS on U-bend Testing in Simulated Hydrothermal Liquefaction Processing Environments- <i>Elliott Asare, J.R. Kish, McMaster University</i> Inspecting a Recovery Boiler: The TAPPI Way – <i>Douglas Singbeil, GreenTree Strategies</i>
10:30AM–12:30PM	Session 7: Efficient Washing and Black Liquor Management Session Chair: <i>Mathias Lindström, International Paper</i> <i>Location: 554 – Conference Center</i>
	DD-washer Performance Optimization using Latest Measurement Technology - <i>Riku Kopra, South-Eastern Finland University of Applied Sciences, Fiber Laboratory</i> Understand Chemi-washer Washing Operation to Enhance Efficiency and Reduce Cost - <i>Michael Wang, Solenis</i> Successful Field Testing of Black Liquor Reverse Osmosis Modules - <i>Brent Keller, Via Separations</i> Silicone Applications in Pulp and Paper - <i>Lingrong Gu, Wacker Chemie AG</i>
10:30AM–12:00PM	IBBC Session 2: Bioenergy Research from DOE National Labs (Invited Speakers Session) Session Chair: <i>Jaya Shankar Tumuluru, USDA-ARS</i> <i>Location: Ballroom DE – Conference Center</i>
	The Role of Long-Term Storage to Reduce Risk of Feedstock Loss and Facilitate Recalcitrance Reduction – <i>Lynn Wendt, Idaho National Laboratory</i>

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	<p>Performance of Candidate Containment Materials for Bio-Oil Production and Storage – <i>James R. Keiser, Oak Ridge National Laboratory</i></p> <p>Attaining Sustainable Production of Energy from Agricultural Biomass Feedstocks - <i>Shyam K. Nair, Los Alamos National Laboratory</i></p>
10:30AM–12:00PM	<p>Session 8: Plant Design Session Chair: <i>Danny Tandra, Clyde, Industries, Inc.</i> <i>Location: 552 – Conference Center</i></p>
	<p>Factors Affecting Deposit Formation in Foul Condensate Stripping Systems - <i>Torsten Meyer, University of Toronto</i></p> <p>Black Liquor Evaporators Upgrade–How Many Effects? - <i>James Cantrell, Jacobs Engineering (presented by Tom Harriz, Jacobs Engineering)</i></p> <p>Developing a Detailed Simulation Model for Complete Mass, Energy and Chemical Balancing of Integrated Pulp and Paper Mills - <i>Michael Erbes, Enginomix LLC</i></p>
10:30AM–12:30PM	<p>Session 9: Lime Kiln Operation & Hardware Session Chair: <i>Shawn Russell, FITNIR Analyzers Inc.</i> <i>Location: 555 – Conference Center</i></p>
	<p>Improving Lime Recovery Kiln Operation using CFD Modeling – <i>Zhi Xu, Metso Outotec</i></p> <p>Rotary Kiln Monitoring with Shell Temperature Visualization and Process Analytics - <i>Lee Rippon, University of British Columbia</i></p> <p>Dynamic CFD Modelling of Calcination in a Rotary Lime Kiln with an External Dryer - <i>Jarod Ryan, University of Toronto</i></p> <p>Innovative Refractory Solutions for Lime Sludge Recovery Kilns to Achieve Sustainable Energy Savings– <i>Kevin Regan, Refratechnik Cement GmbH</i></p>
10:30AM–12:00PM	<p>Session 10: Making Packaging Compatible with Paper Recycling Moderator: <i>Carl Houtman, USDA, Forest Products Lab</i> <i>Location: 556 – Conference Center</i></p> <p>Panelists:</p> <p><i>Colleen Walker, University of Maine</i> <i>Ashok Ghosh, WestRock</i></p>
10:30AM–12:00PM	<p>Session 11: Landfill Management Session Chair: <i>Dan Curry, TRC</i> <i>Location: 553 – Conference Center</i></p>
	<p>A True Green Cover for Industrial Waste Landfills - <i>Rutuparna Joshi, WG Watershed Geo Unearthing Solutions</i></p>
12:00PM–1:20PM	<p>2023 PEERS Technical Program Planning Meeting* <i>Chair: Mathis Lindström, International Paper</i></p>

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	<i>Location: Providence – Conference Center</i>
12:00PM–1:30PM	Lunch & Exhibit Open <i>Location: Ballroom ABC – Conference Center</i>
12:30PM–1:30PM	Biorefinery Committee <i>Chair: Sudhagar Mani, University of Georgia</i> <i>Location: 550B – Conference Center</i>
1:30AM–3:30PM	IBBC Session 3: Innovative Bioproducts and Biopolymers from Biomass Session Chair: Zachary Bacon, Valmet <i>Location: Ballroom DE – Conference Center</i>
	Bio-based Solutions for the Replacement of Single-use Plastics in Packaging Applications – <i>Xuejun Zou, FPInnovations</i> Bioproducts Development by Phosphorylation of Lignocellulosic Materials – <i>David Myja, Innofibre</i> Bioderived Chemical Extraction from Spruce Needles – Adding Value to Forest Logging Residues – <i>Atanu Kumar Das, Swedish University of Agricultural Sciences</i>
1:30PM–3:00PM	Session 12: Fixed Equipment Materials and Reliability Session Chair: Margaret Gorog, International Paper <i>Location: 551 – Conference Center</i>
	Performance of Duplex Stainless Steel in Bleach Tower Environments–A Multi-mill Study - <i>Matthew Tunnicliffe, Victor Padilla, FPInnovations</i> Advantages of Lean Duplex Stainless Steels in the Pulp and Paper Industry - <i>Mikko Palosaari, Outokumpu Stainless OY</i> Fixed Equipment Mechanical Integrity - <i>Margaret Gorog, International Paper</i>
1:30PM–3:00PM	Session 13: Online Analysis & Energy Recovery Session Chair: Thanh Trung, FITNIR Analyzer Inc. <i>Location: 554 – Conference Center</i>
	Maximizing Recovery Boiler Availability with an Online Ash Analyzer and Ash Balance Advisor - <i>Matti Selkälä, Valmet Automations, Inc.</i> Reliable and Fast Method for Carryover - <i>Heikki Lappalainen, Andritz Oy</i> A Feasibility Study of Using the Organic Rankine Cycle for Power Generation from the Flue Gases of Recovery Boilers - <i>Seyed Javad Amirfakhri, University of Wisconsin-Stevens Point</i>
1:30PM–3:00PM	Session 14: Lime Kiln Chemistry Session Chair: Wei Ren – FPInnovations <i>Location: 552 – Conference Center</i>
	How do Mud Balls Form in Lime Kilns? – <i>Patrick Hinton-Barber, ERCO Worldwide</i>

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	<p>Green Liquor Clarification Improvement Utilizing Existing Tank and Vessel in Mills - <i>Robert Carlström, Valmet Paper AB</i></p> <p>How On-line Static Optics FTIR Can Replace Titration for Reausticizing Control - Examples from the Field - <i>Jonathon Speed, Keit Spectrometers</i></p>
1:30PM–2:30PM	<p>Session 15: Upcycling and Environmental Sustainability Session Chair: Marty Daniel, Thiele Kaolin Company Location: 555 – Conference Center</p>
(Co-Sponsored by Fiber Recycling and Environmental /Sustainability Committees)	<p>The Future State of Packaging Papers for the Circular Economy - <i>Scott McNutt, Nextep Partners</i></p> <p>Recycling Paper-Plastic Laminate Coffee Cups Using a Single-Disk Refiner: Energy Requirements and Recovered Fiber Quality - <i>Michael Bilek, University of British Columbia</i></p>
1:30PM–3:00PM	<p>Session 16: Oxygen and Ozone Delignification Progress Session Chair: Ashok Ghosh, WestRock Location: 556 – Conference Center</p>
	<p>Oxygen Delignification Model Using the Ji, Vanska & van Heiningen Equation - <i>Tom Mullen, Process Innovations, LLC</i></p> <p>Modelling of Real Oxygen Delignification Processes - <i>Jari Käyhkö, South-Eastern Finland University of Applied Sciences</i></p> <p>Z-EFC and Z-TCF Bleaching of Softwood Kraft Pulp - <i>Alexis Métais, Xylem</i></p>
3:00PM–3:30PM	<p>Refreshment Break & Exhibit Open Location: Ballroom ABC – Conference Center</p>
3:30PM–5:30PM	<p>IBBC Session 4: Biomass Pretreatment Methods Session Chair: Sudhagar Mani, University of Georgia Location: Ballroom DE – Conference Center</p>
	<p>Intensified Continuous Biomass Treatment By Twin Screw Extrusion – <i>Lionel Danos, Clextal</i></p> <p>Swift Kraft Lignin Depolymerisation under Hydrothermal Conditions – <i>Anders Ahlbom, Chalmers University of Technology</i></p> <p>Use of a Static Optics FTIR Spectrometer for On-line and Real Time Measurement and Differentiation of Sugars, Acids and Lignin Production in Biorefinery Processes – <i>Jonathan Speed, Keit Spectrometers</i></p>
3:30PM–5:00PM	<p>Session 17: Recovery Boiler Corrosion and Reliability Session Chair: Paul Ceravolo, Andritz Pulp & Paper Location: 551 – Conference Center</p>
(Co-Sponsored by Corrosion & Materials Engineering and Energy, Recovery, Lime Kiln & Reaust Committees)	<p>Extend Operation Periods of Kraft Recovery Boilers - <i>Hamilton Brandao, ANDRITZ Oy</i></p>

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	<p>Investigating the Causes of Severe Economizer Tube Thinning in an SSL Boiler - <i>Torsten Meyer, University of Toronto</i></p> <p>Cracking of Straight Co-extruded Composite Wall Tubes in Black Liquor Recovery Boilers - <i>Johanna Tuiremo, Andritz Oy</i></p>
3:30PM–5:00PM	<p>Session 18: Panel Discussion on Lime Kiln Maintenance Moderator Co-Chairs: <i>Glenn Hanson, Metso Outotec and J. Peter Gorog, Houghton Cascade Holdings, LLC</i> <i>Location: 556 – Conference Center</i></p>
	<p>Panelists:</p> <p>Proper Kiln Alignment for Sustainable/Reliable Performance – <i>Andrew Knouse, Metso Outotec</i></p> <p>Comparison of Known Coolers for Lime Kilns in the Pulp and Paper Industry, The Differences in Operation Economy and Main Maintenance Tasks – <i>Robert Carlström, Valmet Paper AB</i></p> <p>Lime Mud Dryers & Cyclones - <i>Melissa Reddinger, Andritz</i></p>
3:30PM-5:00PM	<p>Session 19: Developments in Bleaching Session Chair: <i>Tom Mullen, Process Innovations, LLC</i> <i>Location: 552 – Conference Center</i></p>
	<p>Chlorine Dioxide Generator Liquor Composition Control Using FITNIR Online- Benefits and Process Improvements – <i>Shawn Russell, FITNIR Analyzers, Inc.</i></p> <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>
3:30PM-4:30PM	<p>Session 20: Recycling I Session Chair: <i>Marty Daniel, Thiele Kaolin Company</i> <i>Location: 555 – Conference Center</i></p>
	<p>The Impact of Multiple Recycle Loops On The Yield And Properties Of Softwood Kraft Fibers And Of Non-wood Fibers For Packaging - <i>Richard Venditti, NCSU</i></p> <p>Modified Kaolin-based Reagent for Removing Contaminants from Recovered Paper - <i>Cesar Basilio, Thiele Kaolin Company</i></p>
3:30PM-5:00PM	<p>Session 21: Optimizing Mill Water Resources Session Chair: <i>Heather Jennings, Probiotic Solutions</i> <i>Location: 554 – Conference Center</i></p> <p>Capturing Hidden Resources: Recycle Paper Mill Water Reduction and Reuse – <i>Joseph Brown, Republic Paperboard, LLC</i></p> <p>Utilizing Sound Bioaugmentation Techniques as a strategy to Mill</p>

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	<p>Wastewater Treatment Optimization - <i>Mark Stae, Solenis LLC ; Frank Reightler, 4G Environmental Corp.</i></p> <p>Containerboard Mill Net-Zero Water Use - <i>Lisa Bauer-Lotto, Green Bay Packaging</i></p>
5:00PM–6:30PM	<p>Reception and Exhibit Open <i>Location: Ballroom ABC – Conference Center</i></p>
5:30PM–6:30PM	<p>IBBC Session: Poster Session Session Chair: <i>Jaya Shankar Tumuluru, USDA-ARS</i> <i>Location: Ballroom ABC – Conference Center</i></p>
	<p>Quality of Pinus sp. Pellets with Kraft Lignin and Starch Addition – <i>Solange Araújo, Instituto Superior de Agronomia</i></p> <p>Investigation of the Effects of Particle Size and Pyrolysis Temperature on Fast Pyrolysis Southern Pine Forest Residue Tissue Fractions Using Pyro-GC/MS - <i>Seyedehsan Vasefi, University of Georgia (presented by Sudhagar Mani, University of Georgia)</i></p> <p>Elementary Chlorine Free Bleaching of Mechanical Pulps from Alternative Fibers - <i>Amelys Brito, North Carolina State University</i></p>
6:30PM–7:30PM	<p>Young Professionals Mixer (Sponsored by John Crane) <i>Location: Rotunda – Conference Center</i></p> 
7:00PM–9:00PM	<p>IBBC Conference Dinner** (Sponsored by Valmet) <i>Location: The Capital Grille</i></p> 
<h2>Wednesday, November 2, 2022</h2>	
6:30AM–12:00PM	<p>Registration Open <i>Location: 5th Floor Ballroom ABC Pre-Function – Conference Center</i></p>
6:45AM–8:30AM	<p>Hot Topic Breakfast II*** (Sign-up Sheets Will be at Registration) <i>Location: 557 – Conference Center</i></p> <p>O₂ Delignification Optimization/Benchmarking - <i>Tom Mullen, Process Innovations LLC</i></p> <p>Silicone Applications in the Pulp Mill - <i>Lingrong Gu, Wacker Chemie AG</i></p> <p>Scaling Issues in the Bleach Plant - <i>Michael Wang, Solenis</i></p> <p>Sustainable Forest Biomaterials & Bioproducts - <i>Sudhagar Mani, UGA</i></p> <p>Issues to Consider for Pump Design, Including System Modifications - <i>Pam Jordan, Sylvia Ciampa, & Naomi Ballenger, Jacobs</i></p>

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	<p>Sootblower Maintenance Reliability and Cleaning Strategy - <i>Danny Tandra, Clyde, Industries, Inc.</i></p> <p>Continuous Digester Mechanical Integrity, Considerations for Managing Corrosion, Cracking and Over Pressure Protection - <i>Meg Murphy, INFab LLC/O'Neal</i></p>
7:00AM–8:15AM	<p>Speaker Breakfast (Wednesday Speakers & Session Chairs Only) <i>Location: Rotunda – Conference Center</i></p>
8:30AM–10:00AM	<p>Plant Engineering & Project Management & Corrosion & Materials Engineering Committee Meeting (Joint Meeting) <i>Chair: Meg Murphy, INFab LLC/O'Neal Inc.</i> <i>Location: 550 – Conference Center</i></p>
8:30AM–10:30AM	<p>IBBC Session 5: Biomass Conversion & Densification Session Chair: <i>Jaya Shankar Tumuluru, USDA-ARS</i> <i>Location: Ballroom DE – Conference Center</i></p>
	<p>The Current State of Predicting the Performance of Biomass Pyrolysis Process using Machine Learning Tools – <i>Sudhagar Mani, University of Georgia</i></p> <p>The Effects of Hot Water Extraction of Lignocellulosic Biomass on Fuel Pellet Properties – <i>Autumn Elniski, SUNY-ESF</i></p> <p>Briquette Produced with Torrefied Agroforestry Biomass to Generate Energy – <i>Solange Araújo, Instituto Superior de Agronomia</i></p> <p>Sandwich Belt High Angle Conveyors Lifting the Value of Biomass – <i>Amy Duncan, Dos Santos International, LLC</i></p>
8:30AM–10:00AM	<p>Session 22: Black Liquor Properties & Combustion Session Chair: <i>Pasi Miikkulainen – Andritz</i> <i>Location: 551 – Conference Center</i></p>
	<p>Evaluating the Effect of Recovery Boiler Operation on Dregs Behavior Using Multivariate Data Analysis - <i>Elizabeth Maggs, University of Toronto</i></p> <p>Development of an Online Near-Infrared Spectroscopy Analyzer for the Determination of Kraft Black Liquor Properties - <i>Matthew Tomkins, FPIInnovations</i></p> <p>Black Liquor % Solids- What do we really know? - <i>John Porter, FITNIR Analyzer Inc.</i></p>
8:30AM-10:00AM	<p>Session 23: Recycling II Session Chair: <i>Cesar Basilio, Thiele Kaolin Company</i> <i>Location: 554 – Conference Center</i></p>
	<p>How to Detect Dirt and Shives in Pulp Slurries - <i>David Zerr, Pulmac Systems International</i></p> <p>Improve Deinking Flotation from the Fundamental Research - <i>Kaiwu Huang, Virginia Tech</i></p> <p>Improved Deinking Flotation of Water-Based Ink – <i>Roe-Hoan Yoon, Virginia Tech</i></p>

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8:30AM-10:00AM	Session 24: Solving Problems for Better Optimization Session Chair: Franklin Zambrano, Solenis <i>Location: 552 – Conference Center</i>
	Comparison of White Liquor Gauge Studies - <i>Michael Aguilar, WestRock</i> De-resinators and Kraft Yield - Why is it so Hard? - <i>Delos Boardman, Retired</i> Kraft Lignin Production at West Fraser’s Hinton Mill Using the LignoForce™ System - <i>Kurt Woytiuk, FPInnovations</i>
10:00AM–10:30AM	Coffee Break <i>Location: 5th Floor Ballroom ABC Pre-function - Conference Center</i>
10:30AM–12:00PM	IBBC Session 6: Biomass Conversion Pathways Session Chair: Shyam K. Nair, Los Alamos National Lab <i>Location: Ballroom DE – Conference Center</i>
	Syngas Upgrading Flexibility using Hot Oxygen Technology – <i>Bradley Damstedt, Linde</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>
10:30AM-12:00PM	Session 25: PFAS Issues Facing the Industry Panel Discussion Moderator: Dan Curry, TRC <i>Location: 556 – Conference Center</i>
	Panelists: <i>Cathy Swanson, Purolite, an Ecolab Company</i> PFAS: Relevance to Pulp and Paper, <i>Giffe Johnson, NCASI</i> <i>Elizabeth Denly, TRC</i>
10:30AM-12:00PM	Session 26: Impact of Chemistry on Boiler Operation Session Chair: Jack Porter, FITNIR Analyzer Inc. <i>Location: 555 – Conference Center</i>
	Black Liquor Spraying Orientation Determination in Kraft Recovery Boiler - <i>Heikki Lappalainen, Andritz Oy</i> Evaluation of Soap Recovery Efficiency from Black Liquor–Analytical Tools - <i>Joseph Bohannon, Ingevity</i> Reduction Rate Control - <i>Travis Conner, Valmet</i>
12:00PM–1:00PM	2022 PEERS Conference Wrap up Meeting* <i>Chair: Emma Ragauskas, TAPPI</i> <i>Location: Warwick – Conference Center</i>
12:00PM	PEERS & IBBC Conclude

* Invitation Only

** Additional registration fee required

*** Pre-registration required