



10/27/23 (SUBJECT TO CHANGE)

Career Development ✓	Engineering, Reliability, Corrosion & Materials	Energy, Recovery, Lime Kiln and Recast	Environmental
Nonwood	Pulping & Bleaching	Recycling	Sustainability
IBBC Conference			
Sunday, November 5, 2023			
6:30AM – 5:00PM	Registration Open <i>Location: Grand Hall West Foyer</i>		
7:30AM – 4:00PM	Bleach Plant Operations Workshop** <i>Location: Greenbriar</i>		
8:00AM – 4:00PM	Brown Stock Washing Workshop** <i>Location: Dunwoody</i>		
11:00AM – 1:30PM	Lunch for Workshop Attendees Only <i>Location: Dunwoody and Greenbriar Foyer</i>		
12:00PM – 1:00PM	Joint Team Review of Conference Logistics* <i>Chair: Natasha Bush-Postell, TAPPI</i> <i>Location: Fairlie</i>		
12:00PM – 4:00PM	TAPPI Central <i>Location: Grand Hall West Foyer</i>		
1:00PM – 4:00PM	Engineering Division & Pulp Manufacture Division Council Meeting* <i>Chairpersons:</i> <i>Mathis Lindström, International Paper</i> <i>Location: Fairlie</i>		
5:00PM – 7:00PM	Welcome Reception & Exhibit (Sponsored by John Crane) <i>Location: Grand Hall West</i>		
7:00PM – 10:00PM	Awards Dinner* <i>Location: White Oak Kitchen (located across the street from the hotel)</i>		
Monday, November 6, 2023			
6:30AM – 5:00PM	Registration Opens <i>Location: Grand Hall West Foyer</i>		

* Invitation Only

** Additional registration fee required

*** Pre-registration required

7:00AM – 8:15AM	Speaker Breakfast (Monday Speakers & Session Chairs Only) <i>Location: Baker</i>
8:00AM – 5:00PM	TAPPI Central <i>Location: Grand Hall West Foyer</i>
8:30AM – 10:00AM	Session 1: Opening Session & Keynote ✓ Session Chair: <i>Mathias Lindström, International Paper</i> Advancing the Industry's Sustainability Achievements through Collaboration & Partnerships - <i>Jamie Tiralla, Director, Strategic Communications, AF&PA</i> <i>Location: Regency VI</i>
10:00AM – 10:30AM	Coffee Break & Exhibit Open <i>Location: Grand Hall West</i>
10:30AM – 12:00PM	Session 2: State of the Industry ✓ Session Chair: <i>Pasi Miikkulainen, Andritz</i> <i>Location: Regency VI</i>
	Strategies that Work for Recruitment and Retention – <i>Larry Anker, Solenis, LLC</i> How to Create a Thriving Environment that Encourages Development and Growth for both People and Processes – <i>Karin Dernegård, Södra Cell</i> Early Career Recruiting Trends & Engagement Strategies - <i>Brooke Kaskey, WestRock</i>
12:00PM – 1:30PM	Lunch & Learn/ Exhibit Open Grab your lunch and come eat with Division Leaders in Pulp Manufacturing and Engineering. Learn about the volunteer work our leaders enjoy and find out how you can get engaged. <i>Location: Grand Hall West</i>
12:00PM – 1:20PM	Engineering Division Committee of Chairs <i>Chair: Matthew Tunnicliffe, FPInnovations</i> <i>Location: Inman</i>
1:30PM – 3:00PM	Session 3: New Technology Showcase ✓ Moderator: <i>Subra Arasakesari, International Paper</i> <i>Location: Learning Center</i>
	Impacting The Pulp & Paper Wastewater Treatment Market with Proven Transformative Technology - <i>Derek J. Maat, SciCorp International Corp.</i> Improved Chip Feeding System for Continuous Digesters - <i>Robert Carlström, Valmet</i> Process Performance and Product Quality Cost Savings Using On-line Fiber Properties Real Time Data Transformation-Case Study – <i>Paul Watson, PulpEyeAB</i> Money for Nothing and Your Chips for Free – <i>Amy Duncan, Dos Santos International</i> Smart Chips – Immersing Pulp & Paper Industry into Digital Transformation – <i>Marcus De Oliveira, Innotech Alberta</i> The Path towards Carbon Neutrality – How Reduced Thermal Conductivity Refractories Can Contribute - <i>Kevin Regan, Refratechnik North America, Inc.</i>

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	<p>Advances in Chip Measurement using NIR Spectroscopy – <i>Shawn Russell, FITNIR Analyzers Inc.</i></p> <p>Role of Digital Twin Technology in Autonomous Operation - <i>Tanaji Mali, IDEAS</i></p> <p>Fast Pyrolysis, <i>Zach Bacon, Valmet</i></p>
3:00PM – 3:30PM	<p>Refreshment Break & Exhibit Open</p> <p><i>Location: Grand Hall West</i></p>
3:30PM – 5:00PM	<p>Energy, Recovery, and Recast Main Committee</p> <p>Chair: Wei Ren, FPInnovations</p> <p><i>Location: Inman</i></p>
3:30PM – 5:00PM	<p>Session 4: Fiberline Optimization</p> <p>Session Chair: Dan Nicholson, Solenis</p> <p><i>Location: Learning Center</i></p>
	<p>Model Development for Real Oxygen Delignification Processes - <i>Jari Käyhkö, XAMK/FiberLaboratory</i></p> <p>Using Bleaching Stage Models for Benchmarking Hardwood ECF Bleach Plants – <i>Brian Brogdon, Future Consulting Services, LLC</i></p> <p>The Effect of Optimizing the Operating Parameters of the Washers on the Washer's Efficiency and the Overall Economy of the Mill – <i>Riku Kopra, South Eastern Finland University of Applied Sciences (XAMK)</i></p>
3:30PM – 5:00PM	<p>Session 5: Impact of Nonwood Fibers</p> <p>Session Chair: Sefik Tunc, SAPPI NA</p> <p><i>Location: Dunwoody</i></p>
	<p>Life Cycle Carbon Analysis of Packaging Products Containing Non-wood Residues - <i>Antonio Suarez Simancas, WestRock</i></p> <p>Life Cycle Carbon Analysis of Packaging Products Containing Purposely Grown Non-wood Fibers – <i>Antonio Suarez Simancas, WestRock</i></p> <p>Sustainable Alternative Fibers Initiative (SAFI): Methodology and Tools for Evaluating Sustainability Dimensions of Non-wood Fibers - <i>Richard Venditti, North Carolina State University</i></p>
3:30PM – 5:00PM	<p>Session 6: Materials Performance in Corrosive Environments</p> <p>Session Chair: Nat McAlonen, Altum Technologies</p> <p><i>Location: Courtland</i></p>
	<p>Bleach Plant Materials Selection – <i>Margaret Gorog, Houghton Cascade Holdings, LLC</i></p> <p>Maximizing Performance of FRP Equipment and Piping– <i>Jeff Eisenman, Maverick Applied Science, Inc.</i></p> <p>Corrosion of a Power Boiler Air Heater – <i>Victor Padilla, FPInnovations (Matthew Tunnicliffe, FPInnovations)</i></p>
5:00PM – 6:30PM	<p>Reception & Exhibit Open</p> <p><i>Location: Grand Hall West</i></p>
7:00PM – 9:30PM	<p>PEERS Conference Dinner** (all attendees welcome) (Sponsored by Via Separations)</p>

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	<i>Location: National Civil and Human Rights Center</i>
Tuesday, November 7, 2023	
6:30AM – 5:00PM	Registration Open <i>Location: Grand Hall West Foyer</i>
6:45AM – 8:30AM	Hot Topic Breakfast I*** (Sign-up Sheets Will be at Registration) <i>Location: Grand Hall West</i> Sustainable and Circular Forest Bioeconomy– <i>Antonio Suarez Simancas, WestRock</i> Congrats You Are a Reliability Engineer-Now What? – <i>Jay Shellogg, Strategic Maintenance Reliability, LLC</i> What is the Best Way to Sample Reburned Lime for Residual Carbonate Analysis? – <i>Honghi Tran, University of Toronto</i> Soap Separation Improvement – <i>Harold Petke, Solenis, LLC</i> Fluff Pulp Characterization – <i>Dan Nicholson, Solenis, LLC</i> Wildfires – A Growing Concern Affecting Mill Operations and Employees – <i>Nat McAlonen, Altum Technologies</i> How to do a Boiler Upgrade Properly – What’s Required and When – <i>Paul Ceravolo, Andritz</i> TAPPI TIPs and Standard Test Methods - <i>Morgan Nelson, TAPPI; Mathias Lindström, International Paper</i>
6:45AM – 8:00AM	PaperChase Fun Run/Walk** (5K Run/2Mile Walk) <i>Location: Piedmont Park (Information at registration)</i>
7:00AM – 8:15AM	Speaker Breakfast (Tuesday Speakers & Session Chairs Only) <i>Location: Baker</i>
8:00AM – 5:00PM	TAPPI Central <i>Location: Grand Hall West Foyer</i>
8:30AM – 10:00AM	IBBC Session 1: Welcome & Opening Session: Session Chair: <i>Sudhagar Mani, University of Georgia</i> Pulp Mill or Biorefinery? Critical Path to Replace Fossil Fuels! – <i>Mark DeAndrea, Centrisys Renewables</i> <i>Location: Regency VI</i>
10:00AM – 10:30AM	Coffee Break & Exhibit Open <i>Location: Grand Hall West</i>
10:30AM – 11:30AM	Environmental & Sustainability Working Group Chair: <i>Dan Curry, TRC Companies</i> <i>Location: Learning Center</i>
10:30AM – 12:00PM	IBBC Session 2: Advances in Biofuels and Bioproducts Research (Invited Speakers) Session Chair: <i>Jaya Shankar Tumuluru, USDA</i> <i>Location: Regency V</i>

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	<p>Resource-efficient Pellet Production & Fertilizer Pellets from Forestry Residues - Research Advantages from Two Ongoing Projects- <i>Stefan Frodeson, Karlstad University, Sweden</i></p> <p>Investigation and Mitigation of Biomass Fouling on Screw Feeder in Preconversion of Pyrolysis – <i>Jun Qu, Oak Ridge National Laboratory</i></p> <p>Xylose - A Low Carbon Footprint Starting Material for the Production of Biofuels and Biochemicals - <i>Jagannadh Satyavolu, Founder and CEO, BioProducts, LLC (presented by Holly Covington, BioProducts, LLC)</i></p>
10:30AM – 12:00PM	<p>Session 7: Pulping and Fiber Properties Session Chair: <i>Todd Bolton, Solenis</i> Location: <i>Dunwoody</i></p>
	<p>Thorough Characterization of Tropical Pine Species for Kraft Pulp Production - <i>Nayara Bergamo Casagrande, Klabin</i></p> <p>Using Online Tools to Predict Finished Product Physicals in Pulp Slurries – <i>David Zerr, Pulmac</i></p> <p>White Liquor Sodium Carbonate Effects on the Pulping of Southeastern Softwood – <i>Liam Ryan, Westrock</i></p>
10:30AM – 11:30AM	<p>Session 8: Lime Kiln Structure and Unit Operations Session Chair: <i>Nikolai DeMartini, University of Toronto</i> Location: <i>Greenbriar</i></p>
	<p>The Untapped Potential for Firing Non-Fossil Fuels in Rotary Kilns - <i>Tejas Ashar, Metso UK</i></p> <p>Refractory Wear Characterization in Lime Recovery Kilns – <i>James Hemrick, Oak Ridge National Laboratory</i></p> <p>Rotary Kiln Support Systems: Reviewing Journal Bearing Function, Operation, and Maintenance - <i>Andrew Wisner, NAK Kiln</i></p>
10:30am – 12:00pm	<p>Session 9: Digester Safety and Fitness for Service Session Chair: <i>Margaret Gorog, Houghton Cascade Holdings, LLC</i> Location: <i>Courtland</i></p>
	<p>Fitness-for-Service Evaluation of Thinning in Continuous Digesters– <i>David Perkins, Corrosion Probe</i></p> <p>Monitoring and Eliminating Risks of Corrosion and Stress Corrosion Cracking in Kraft Pulp Digesters – <i>Timo Laurila, Savcor Forest Inc. (presented by Pasi Niemeläinen, Savcor)</i></p> <p>Overpressure by Design – An Oil and Gas Perspective on Safety for Kraft Digesters – <i>Philip Henry, E2G</i></p>
10:30AM – 11:30PM	<p>Session 10: Boiler Optimization and Improvements Session Chair: <i>Chris Jackson, Paragon Risk Engineering</i> Location: <i>Baker</i></p>
	<p>Real Measurements Lead to Real Understandings and Better Operating Control of the Recovery Liquor Cycle – <i>John Porter, FITNIR Analyzer, Inc.</i></p>

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	Bottom-Up Improvement of the Boiler Feedwater System – <i>James Harriz, Jacobs Engineering Group, Inc.</i>
10:30AM – 11:30AM	Session 11: Recycling of Recovered Paper Session Chair: Cesar Babilio, Thiele Kaolin Company <i>Location: Inman</i>
	Deinking of Water-Based Inks, <i>Roe-Hoan Yoon, Virginia Tech</i> Advanced Water Treatment and Recycling Solution for Low Water Consumption Paper Mill, Case Studies, <i>Ilkka Laasonen, Nijhuis Saur Industries</i>
12:00PM – 1:20PM	2024 PEERS Technical Program Planning Meeting* <i>Chair: Pasi Miikkulainen, Andritz</i> <i>Location: Kennesaw</i>
12:00PM – 1:30PM	Lunch & Learn/ Exhibit Open Grab your lunch and come eat with Division Leaders in Pulp Manufacturing and Engineering. Learn about the volunteer work our leaders enjoy and find out how you can get engaged. <i>Location: Grand Hall West</i>
12:30PM – 1:30PM	Biorefinery Committee <i>Chair: Sudhagar Mani, University of Georgia</i> <i>Location: Lenox</i>
1:30PM – 3:00PM	Fiber Recycling Committee Meeting <i>Cesar Babilio, Thiele Kaolin Company</i> <i>Location: Kennesaw</i>
1:30PM – 3:00PM	Session 12: Using Available Tools for Better Pulp Making Session Chair: Ashok Ghosh, WestRock <i>Location: Learning Center</i>
	Energy Efficient Alternatives to Reduce the Carbon Emissions in the Production of Linerboard, <i>Richard Venditti NCSU</i> Kraft Pulp Viscosity as a Predictor of Paper Strength: Its Uses and Abuses – <i>Brian Brogdon, Future Bridge Consulting Services, LLC</i> Application of 3D vision, robotic arms, and robust algorithms to stock preparation feeding lines: Results and development of the installation - <i>Antonio (Tony) Tellez, Polytec (USA) part of BMgroup</i>
1:30PM – 3:00PM	IBBC Session 3: Biomass Processing and Conversion Pretreatment Session Chair: Sudhagar Mani, University of Georgia <i>Location: Regency V</i>
	Preprocessing and Pretreatment Technologies for Addressing Biomass Supply Chain Logistics – <i>Jaya Shankar Tumuluru, USDA</i> Recent Developments in Biomass Treatment by Twin Screw Extrusion – <i>Lionel Danos, Clextral, Inc.</i> Transforming Biomass with Sandwich Belt High Angle Conveyors – <i>Amy Duncan, DOS Santos International</i>

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1:30PM – 3:00PM	Session 13: Extreme Weather and Supply Chain Challenges – What Impacts Mill Operations Panel Moderator: <i>Chris Johns - MEGI Engineering</i> <i>Location: Dunwoody</i>
	Panelists: Chad Harrod, <i>Georgia Pacific</i> Greg Golike, <i>International Paper</i> John O'Donnell, <i>Domtar</i>
1:30PM – 3:00PM	Session 14: Mud Filters for Lime Kiln Operations Panel Moderator: <i>J. Peter Gorog, Houghton Cascade Holdings, LLC; Glenn Hanson, Metso</i> <i>Location: Courtland</i>
	Panelists: Common Cloth Failure Modes that Lead to Filter Performance Losses & Optimized Shower Flow for Efficient Cake Washing and Drying - <i>Trevor Van Bavel, McFarlen Engineering</i> Precoat Continuous Cleaner Optimization & Technology Improvements in Lime Mud Precoat Filters- <i>Lindsay Brandino Rawls, Andritz Pulp & Paper</i> <i>Lime Mud Filter (LMF) Optimization - Tobin Alt, Kadant Black Clawson, LLC</i>
1:30PM – 2:30PM	Session 15: Evaporation Unit Operations and Black Liquor Measurement Session Chair: <i>Matthew Tomkins, FPIInnovations</i> <i>Location: Greenbriar</i>
	Continuous, Real-time Measurement of Black Liquor Chemical Makeup Using Static Optics FTIR Spectroscopy – <i>Adam Wilson, Keit Spectrometers</i> Modeling the Dynamics of Evaporator Wash Cycles – <i>Jasmine Kung, University of Toronto</i>
3:00PM – 3:30PM	Refreshment Break & Exhibit Open <i>Location: Grand Hall West</i>
3:30PM – 4:30PM	Nonwood Fiber Committee Meeting <i>Chair: Mathias Lindström, International Paper</i> <i>Location: Fairlie</i>
3:30PM – 5:00PM	IBBC Session 4: Biomass Preprocessing and Conversation Session Chair: <i>Zach Bacon, Valmet</i> <i>Location: Regency V</i>
	Experimental Analysis of the Pyrolysis Dynamics of a Single Wood Particle - Presentation of the Radiographic Technique – <i>Paweł Kazimierski, Instytut Maszyn Przepływowych</i> <i>Imperata cylindrica: A New Bioethanol Potential with Hydrolysis of β-1,4 Glycosidic Binding and Fractional Distillation as A Futuristic Green Energy – Ai Hasanah, IPB University</i> Optimization of Fatty Acid Ethyl Ester (FAEE) Yield of Biodiesel produced from Sunflower Oil and Palm Oil Using <i>Rhizopus Oryzae</i> as Whole-cell Biocatalyst – <i>Samuel Okon-Edem, Nigerian National Petroleum Company Ltd.</i>

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3:30PM – 5:00PM	Session 16: Continuous Digester Corrosion & Cracking Case Study Session Chair: Matthew Tunnicliffe, FPInnovations <i>Location: Learning Center</i>
(Co-sponsored by Plant Engineering & Project Management & Corrosion & Materials Engineering Division & Alkaline Pulping & Bleaching Division)	<p>Continuous Digesters-A Story of Shell Corrosion Under Insulations (CUI) – Kyle Lindsay, Georgia-Pacific Corporation</p> <p>Continuous Digester Process Safety Improvements– Chad Harrod, Georgia-Pacific Corporation</p> <p>Continuous Digester Rapid Thinning – Margaret Gorog - Houghton Cascade Holdings, LLC</p>
3:30PM – 5:00PM	Session 17: Unit Operations Recast/Kiln Session Chair: Thanh Trung, FITNIR Analyzers Inc. <i>Location: Greenbriar</i>
	<p>Factors Affecting on the Settling and Filtering Properties of Green Liquor Dregs – Elizabeth Maggs, University of Toronto</p> <p>Factors Affecting Phosphorus Uptake/Dissolution in Slaking/Causticizing – S. Maryam Sadegh Mousavi, University of Toronto (presented by Nikolai DeMartini, University of Toronto)</p> <p>Online Image Analysis of Nodule Particle-size Distribution for the Control of Lime Kiln Operation – Sven Hermansson, Södra Skogsägarna</p>
3:30PM – 4:30PM	Session 18: Using Technology to Simulate and Optimize a Kraft Mill Session Chair: Jack Porter, FITNIR Analyzers Inc. <i>Location: Courtland</i>
	<p>Optimum Steam Plant Efficiency Through Advanced Controls and Energy Dashboards – Ben Janvier, Enero Solutions</p> <p>Understanding the Energy and Emission Implications of New Technologies in a Kraft Mill: Insights from a CADSIM Plus Simulation Model – Adam Rogerson, NRCan</p>
5:00PM – 7:30PM	Reception and Exhibit Open <i>Location: Grand Hall West</i>
5:30PM – 6:30PM	IBBC/PEERS Session: Poster <i>Location: Grand Hall West Exhibit Hall</i>
	<p><i>Numbers are the ones that will be participating in the Student Poster Competition</i></p> <p>Comparative Study of Hydrolysis and Fermentation Methods for Acetic Acid Production from Paper Sludge - Harifara Rabemanolontsoa, Kyoto University</p> <ol style="list-style-type: none"> 1. Triboelectric Membrane Sensor for Heavy Metal Ions Removal and Detection in Wastewater - Geng-Sheng Lin, Georgia Institute of Technology 2. 3D Printing of Spray Dried CNFs Reinforced Polypropylene Composites – Sunqiun Hwang, University of Maine 3. Grinding performance and physical properties of southern pine forest residue tissue fractions - Osayuwamen Osagie, University of Georgia

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	<p>4. Preparation of Nanofibrillated Cellulose Hydrogels from Various Plant Materials - <i>Md Mazbah Uddin, University of Georgia</i></p> <p>5. Sustainability Assessment of Single-Use Surgical Face Masks through Life Cycle Analysis - <i>Maitry Bhattacharjee, University of Georgia</i></p> <p>6. Fabrication of Poly (lactic acid) melt-blown nonwoven and optimization of processing parameters for improved barrier and mechanical properties - <i>Avik Kumar Dhar, University of Georgia</i></p>
6:30PM – 7:30PM	New Member / First Time Attendee Mixer <i>Location: Grand Hall West</i>
6:30PM – 9:00PM	IBBC Conference Dinner** (all attendees welcome) (Sponsored by: Valmet) <i>Location: Ruth Chris Steakhouse</i>
<h2 style="text-align: center;">Wednesday, November 8, 2023</h2>	
6:30AM – 12:00PM	Registration Open <i>Location: Regency Foyer Area</i>
6:45AM – 8:30AM	Hot Topic Breakfast II*** (Sign-up Sheets Will be at Registration) <i>Location: Regency VI</i>
	<p>Lab-to-Market Commercialization of Forest Bioproducts and Biomaterials – <i>Zach Bacon, Valmet</i></p> <p>Alternate Fuels for Lime Kilns- <i>J. Peter Gorog, Houghton Cascade Holdings, LLC</i></p> <p>Recovery Boiler Operation Auditing - <i>Chris Jackson, Paragon Consulting</i></p> <p>Effect of Soap on Sodium Salt Scaling and How it Impacts Mill Operations - <i>Nikolai DeMartini, University of Toronto</i></p> <p>Pulp Mill Washing Issues – <i>Todd Bolton, Solenis, LLC</i></p> <p>Pine Chemical Recovery – <i>Paul Seefeld, LDX Solutions</i></p> <p>Should Recovery Boiler Acid Cleaning Frequency be Set by Time or Condition (DWD and deposit composition), <i>Margaret Gorog, Houghton Cascade Holdings, LLC</i></p> <p>Pine Chemical Market Conditions - <i>Jerry Butler, DRT</i></p> <p>TAPPI TIPs and Standard Test Methods - <i>Morgan Nelson, TAPPI</i></p>
7:00AM – 8:15AM	Speaker Breakfast (Wednesday Speakers & Session Chairs Only) <i>Location: Dunwoody</i>
8:00AM – 12:00PM	TAPPI Central <i>Location: Regency Foyer</i>
8:30AM – 10:00AM	IBBC Session 5: Sustainable Bio-economy-Waste Processing Session Chair: Antonio Suarez Simancas, WestRock <i>Location: Regency V</i>

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	<p>Broadening the Waste Horizon: Demonstration of Waste to Ethanol Technology Using Paper Sludge as Model Substrate – <i>Eugène van Rensburg, University of Stellenbosch</i></p> <p>The Use of Pulping Liquors as Binders for Chromite Pellets – <i>Hendrik Le Roux, University of Stellenbosch (Presented by Lodewicus Van Der Westhuizen, University of Stellenbosch)</i></p> <p>Steam Exploded Lignocellulose as Binders for Coal-fines Briquetting – <i>Lodewicus Van Der Westhuizen, University of Stellenbosch</i></p>
8:30AM – 10:00AM	<p>Session 19: Mill Wastewater Challenges Session Chair: Dan Curry, TRC Companies <i>Location: Learning Center</i></p>
	<p>Waste Water Treatment Plants Design for Containerboard and Tissue Plants – <i>Marco Pescantin, Quattro Paper Technologies, Inc.</i></p> <p>A Mass Balance is the First Step to Mill Water System Closure – <i>Hampton Howell, Scott Hangen, Jacobs</i></p> <p>Managing Odor at Mill Wastewater Treatment Systems – <i>Amanda Mattingly, NCASI</i></p>
8:30AM – 10:00AM	<p>Session 20: Kraft Liquor Cycle Chemistry Session Chair: Alex Moline, Domtar <i>Location: Greenbriar</i></p>
	<p>Precipitator Ash Addition to Black Liquor to Reduce Evaporator Scaling – Understanding the Fate of the Ash – <i>Ahmed Khafhafer, FPInnovations</i></p> <p>Sulphur Makeup in an Unbleached Kraft Mill – <i>Mehul Chauhan, Thomas Penner, Hinton Pulp West Fraser</i></p> <p>Effect of High Sulphate Content on Fluidity of Recovery Boiler Molten Smelt – <i>Honghi Tran, University of Toronto</i></p>
8:30AM – 10:00AM	<p>Session 21: Alternative Fuel Pathways for Kraft Pulp Mills to Reduce CO₂ Emissions for Lime Kilns Session Co-Chairs: Nikolai DeMartini, University of Toronto; J. Peter Gorog, Houghton Cascade Holdings LLC <i>Location: Baker</i></p>
	<p>Panelists:</p> <p>Mill Experience Firing Biofuels in a Kiln, <i>Tord Hultberg, Sodra</i></p> <p>DOE Program on Hydrogen in the Glass, Steel and Paper Industries - <i>James Hemrick, Oak Ridge National Laboratory</i></p> <p>Alternate Kiln Fuels – The Canadian Prospective, <i>Wei Ren, FPInnovations</i></p>
8:30AM – 9:30AM	<p>Plant Engineering & Project Management & Corrosion & Materials Engineering Chair: Meg Murphy, Infab, LLC <i>Location: Fairlie</i></p>
9:30AM – 1:00PM	<p>Digester Work Group Meeting and Digester Safety Round Table Chair: Matthew Tunncliffe, FPInnovations <i>Location: Dunwoody</i></p>

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10:00AM – 10:30AM	Coffee Break <i>Location: Regency Foyer & Lower Conference Level</i>
10:30AM – 12:00PM	IBBC Session 6: Big Data Analysis and Reliability Session Chair: <i>Jaya Shankar Tumuluru, USDA</i> <i>Location: Regency V</i>
	IIOT for R&M: The Real Struggle – <i>Jay Shellogg, Strategy Maintenance Reliability</i> The Machine Learning Modeling Tool to Predict Biomass Conversion Performances – <i>Sudhagar Mani, University of Georgia</i> Using Big Data to Improve Mill Maintenance - <i>Jay Shellogg, Strategy Maintenance Reliability</i>
10:30AM – 12:00PM	Session 22: NPEs and Overall Process Mill/Recaust Session Chair: <i>Wei Ren, FPInnovations</i> <i>Location: Greenbriar</i>
	Effects of the Variability of Wood Chip Composition on Recovery Cycle Operations – <i>Torsten Meyer, University of Toronto</i> Predicting Non-process Element Behavior in Modern Pulp Mills – <i>Camilla Karlemo, Valmet</i> Results of Causticizing Plant Targets on the Kraft Mill Operation – <i>Travis Conner, Valmet</i>
10:30AM – 12:00PM	Session 23: Environmental Issues Session Chair: <i>Dan Curry, TRC Companies</i> <i>Location: Farlie</i>
	How will a reduction in PM2.5 NAAQS Impact My Facility - <i>Deanna Duram, Trinity</i> The Emerging Environmental Regulatory Landscape - <i>Zach Emerson; NCASI (presented by Tanvir Khan, NCASI)</i> Beneficial Use of Forest Products Industry Solid Residuals - <i>Derek Sain; NCASI</i>
10:30AM – 12:00PM	Session 24: Pine Chemicals Recovery Panel Moderator: <i>Dan Nicholson, Solenis LLC</i> <i>Location: Baker</i>
	Panelists: <i>Paul Seefeld, LDX Solutions</i> <i>Emmanuel Cazeils, DRT</i> <i>Jérôme Moindrot, DRT</i> <i>Bob Bowles, Kraton</i>
12:00PM – 1:00PM	2023 PEERS Conference Wrap up Meeting* <i>Chair: <i>Natasha Bush-Postell, TAPPI</i></i> <i>Location: Inman</i>
12:00PM	PEERS & IBBC Conclude

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12:00PM – 4:00PM	On-line Digital Twin Technology for Your Mill-Have Your DCS Communicate With a Live Simulation Model Workshop** <i>Location: Greenbriar</i> ** Participants will need to bring in their own Laptops and we will license our software a week earlier
1:30PM – 2:30PM	Energy, Recovery and Recast Sub-Committee Meetings Energy Subcommittee <i>Chair: Ben Bunner, Andritz</i> Location: Lenox Lime Kilns & Recast Subcommittee <i>Chair: J. Peter Gorog, Houghton Cascade Holdings LLC</i> Location: Harris Recovery & Power Boilers Subcommittee <i>Chair: Alex Moline, Domtar</i> Location: Kennesaw Water Treatment Subcommittee <i>Chair: Fred Call, Buckman</i> Location: Inman
3:00PM – 4:00PM	Energy, Recovery and Recast Steering Committee Meeting Chair: Wei Ren, FPInnovations Location: Inman
4:00PM – 5:00PM	Alkaline Pulping & Bleaching Committee Meeting Chair: Dan Nicholson, Solenis Location: Baker

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