



PROGRAM TRACKS

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

PROGRAM

AS OF 05/11/19 (SUBJECT TO CHANGE)

Sunday, October 27, 2019	
7:30AM – 4:00PM	Bleach Plant Operations Workshop**
8:00AM – 4:00PM	Brown Stock Washing Workshop**
8:00AM – 4:00PM	Project Management Workshop**
12:00PM – 1:00PM	Joint Team Review of Conference Logistics*
1:00PM - 4:30PM	Engineering Division & Pulp Manufacture Division Councils*
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	Awards Dinner*

* Invitation Only

** Additional registration fee required

*** Pre-registration required

Monday, October 28, 2019

7:00AM – 8:15AM	Speaker Breakfast
7:30AM-8:30AM	Women in Industry Breakfast
8:30AM – 10:00AM	Session 1: Opening Session & Keynote ✓ Session Chair: Carl Houtman, USDA Forest Products Laboratory Keynote: Angie Slaughter, Vice President Sustainability, Anheuser - Busch
10:00AM – 10:30AM	Break & Exhibit Open
10:30AM – 12:00PM	Session 2: State of the Industry ✓ Session Chair:
	AF&PA Sustainability Update - <i>Jerry Schwartz, American Forest & Paper Association</i>
10:30AM – 12:00PM	Session 3: Pulping Optimization Session Chair:
	<p>Pulp Suspension Density Evaluation for Improved Production Calculation at the Discharge of a Continuous Digester - <i>Bruno Goncalves, Lwarcel Celulose</i></p> <p>Technical and Economic Modelling of the Impact of Kraft Chemistry on Costs - <i>Richard Phillips, North Carolina State University</i></p> <p>How Deep Learning Is Used to Increase the Quality Control of Wood Chips by Classification - <i>Brian Mock, Event Capture Systems, Inc.</i></p>
10:30AM –12:00PM	Energy, Recovery and Recaust Steering Committee Meeting*
	Plant Engineering & Project Management Committee
12:00PM – 1:00PM	Session 4: Young Professionals Panel Discussion✓ Moderator:
	<i>Panelist:</i>
12:00PM – 1:30PM	Lunch & Exhibit Open
12:00PM – 1:20PM	Engineering Division Committee of Chairs Meeting*
1:30PM – 3:00PM	Energy, Recovery and Recaust Main Committee Meeting

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1:30PM – 3:00PM	Session 5: New Technology Showcase ✓ Session Chair:
1:30PM – 3:00PM	Session 6: Digester Operations Session Chair:
	Fluff Pulp Performance Improved by Alternative Pine Species - <i>Maiara Schlusaz, Klabin S.A.</i> High KAPPA Process for Eucalyptus Fiberline-The First Industrial Case - <i>Rafael Zaghete Bertochi, Suzano SA</i> GPI West Monroe Digester Optimization Project - <i>Kari Lampela, Valmet</i>
1:30PM – 3:00PM	Session 7: Nonwood Panel Discussion Moderator:
	<i>Panelist:</i>
1:30PM – 3:00PM	Session 8: Project Management Panel Discussion ✓ Moderator:
	<i>Panelist:</i>
1:30PM – 3:00PM	Session 9: Effective Use of Coatings and the Mechanical Support and Maintenance of FRP in Pulp Mill Environments Session Chair: <i>Katie Day, Sandvik</i>
	ECTFE Coatings and Linings for Sustainable Solutions for Corrosion Protection in the Pulp and Paper Industry - <i>Lisa Marrero, Solvay Specialty Polymers</i> FRP Piping Systems and Pipe Supports for Reliable Performance - <i>Jeff Eisenman, Maverick Applied Science, Inc.</i> Maintenance and Repair of Fiber Reinforced Polymer Bleaching Equipment <i>Kevin Lambrych, Ashland</i>
3:00PM – 3:30PM	Break & Exhibit Open

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3:30PM – 5:00PM	Session 10: Bringing Nonwoods to Market Session Chair:
	Review of the Economics, Technologies and Products in the Non-wood Sector <i>Karthik Raghavan, Sim Agro Inc</i> Pulping and TCF Bleaching of Canadian Seed Flax Straw - <i>Robert (Bob) Hurter, HurterConsult Incorporated</i> Columbia Pulp's State-of-the-Art Wheat Straw Pulp Mill - <i>Kristi Kobetich, Columbia Pulp</i>
3:30PM – 5:00PM	Session 11: Brown Stock Washing Session Chair:
	Select the Right Brown Stock Washing Aid for Your Washing Operations - <i>Michael Wang, Solenis LLC</i> Effect of Defoamer for the Gas Content and the Performance of O2 Washers-Mill Case - <i>Riku Kopra, South-Eastern Finland University of Applied Sciences, Fiber Laboratory</i> Brownstock Washing Cost Optimization - <i>James Cantrell, Jacobs Engineering</i>
3:30PM – 5:00PM	Energy, Recovery and Recaust Sub-Committee Meetings: Energy Subcommittee (ERR) Lime Kilns & Recaust Subcommittee (ERR) Recovery & Power Boilers Subcommittee (ERR) Water Treatment Subcommittee (ERR)
	Corrosion & Materials Engineering Main Committee
	Environmental & Sustainability Working Group
5:00PM – 6:30PM	Reception & Exhibit Open
7:00PM – 9:00PM	PEERS Conference Networking Dinner** Sponsored by: 
Tuesday, October 29, 2019	
6:45AM – 8:30AM	Hot Topic Breakfast
6:45AM – 8:00AM	PaperChase Fun Run/Walk**
7:00AM – 8:15AM	Speaker Breakfast
8:30AM – 10:00AM	IBBC Session 1: IBBC Keynote Session Chair:

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8:30AM – 10:00AM	Session 12: Recovered Paper Session Chair:		
	<p>New Methods for Measuring the Quality of Recovered Paper - <i>Tobias Krebs, Technische Universität Darmstadt</i></p> <p>Best Practices for a World Class Recycled Mill - <i>Kim "Will" Robinson, Process Solutions Group</i></p> <p>Refining: Recycled Fiber for Tissue Production - <i>Dylan Schnese, Voith</i></p>		
8:30AM – 10:00AM	Session 13: Environmental-Water/Wastewater Advances Session Chair:		
	<p>Simultaneous Precipitation in an ECF Kraft Pulp Mill: Long-Term Experiences <i>Sakari Toivakainen, Toihan</i></p> <p>Water Cost Tool – <i>Domtar</i></p> <p>Sludge - <i>NCASI</i></p>		
8:30AM – 10:00AM	Session 14: Reducing Process Variability during Black Liquor Evaporation✓ Session Chair:		
	<p>Evaporation Plant Optimization Utilizing Model Predictive Control Technology-A Case Study at Suzano Três Lagoas Mill - <i>Vinicius Bassan Sierra, Suzano</i></p> <p>Soap Removal at Southern Kraft Mill Using Centrifugal Separation - <i>Marc Sabourin, Head Engineering AB</i></p> <p>Solubility of Sodium Oxalate in Kraft Black Liquors - <i>Ahmed Khafhafera, University of Toronto</i></p>		
8:30AM – 10:00AM	Session 15: Process Data & Operator Reliability Session Chair:		
	<p>How Can I Make Sense of All This Data? - <i>William Nichols, KBR</i></p> <p>Optimizing Mill Effectiveness Through Statistical Process Control - <i>Kim "Will" Robinson, Process Solutions Group</i></p> <p>Operator Essential Care - Keys to a Successful Program - <i>Spencer Mays, T5Group LLC</i></p>		
10:00AM – 10:30AM	Break & Exhibit Open		

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10:30AM – 12:30PM	Session 16: Lime Kiln Panel Discussion Moderator:
	<i>Panelist:</i>
10:30AM – 12:00PM	Session 17: Contaminant Removal Session Chair: 
	Bubble nucleation to remove hydrophobic contaminants - <i>Salman Aziz, Doshi and Associates</i> The Application of ATR-IR Method for distinguishing Easy-Deinkable UV Prints - <i>Hirohiko Koizumi, Nippon Paper Industries co., Ltd.</i> Study on the Directional Removal of Microstickies in Papermaking White Water - <i>Bo Li, South China University of Technology</i> Stickies Removal in OCC Application - <i>Cesar Basilio, Thiele Kaolin Company</i>
10:30AM – 12:00PM	Session 18: Session Chair:
	Towards a Carbon Neutral Pulp and Paper Industry: Preliminary Overview of technologies - <i>Sara Eskandarifar, Natural Resources Canada- CanmetEnergy</i> Energy Grid Interactions in Canadian Forest Sector Value Chains - <i>Kurt Woytiuk, FPInnovations</i> Pulp and Paper Mill Waste Utilization - <i>Torsten Meyer, University of Toronto</i>
10:30AM – 12:00PM	Session 19: Recovery Boiler Modeling and Control Strategies Session Chair:
	Water Circulation Modeling of a Blackout Event in a Large Recovery Boiler- <i>Juho Kivelä, Andritz Oy</i> An Integrated Study of Flue Gas Flow and Superheating Process in the Recovery Boiler using Computational Fluid Dynamics and 1D-Process Modeling - <i>Kunal Kumar, Andritz Oy</i> Novel Control System Improves Reliability and Safety of Recovery Boilers - <i>Robert Yule, Solenis</i>
10:30AM – 12:30PM	Session 2: Session Chair:

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	<p>Miscanthus Valorization: Delignification, Hydrolysis, and Lignin-based Hydrogels - <i>Prajakta Dongre, SUNY-ESF</i></p> <p>Operation Reliability Through Pump Optimization - The Prerequisite For A Successful Sugar Campaign - <i>Thomas Fabian, ANDRITZ AG</i></p> <p>Techno-Economic Assessment of Supercritical Water Treatment of Black Liquor, Impact of Recovery Cycle Integration - <i>Mohamed Magdeldin, Aalto University</i></p>
12:00PM – 1:20PM	2020 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 20: Bleaching Optimization Session Chair:
	<p>The Effect of Different Factors on KAPPA Reduction in Mill Oxygen Delignification Studied in Combination with a New Bubble Size Measurement and Modelling Technique - <i>Jari Käyhkö, South-Eastern Finland University of Applied Sciences, Fiber Laboratory</i></p> <p>Bleach Plant Scale Control Best Practices to Minimize Barium Sulphate and Calcium Oxalate to Minimize Down Time and Cost - <i>Michael Wang, Solenis LLC</i></p> <p>On-Machine Visible Dirt Measurement on Moving Sheets and the Relationships to Standard Laboratory Methods - <i>Roland Trepanier, OpTest Equipment Inc.</i></p>
1:30PM – 3:00PM	Session 21: Corrosion Materials & Engineering Panel Discussion✓ Moderator:
	<i>Panelist</i>

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1:30PM – 3:30PM	Session 22: Reducing Process Variability during Black Liquor Evaporation✓ Session Chair:
	Thermodynammic Modeling of the Energetics of a Large-Scale Smelt Water Explosion – <i>Eric Jin, Babcock and Wilcox</i> Experience of Calcium Carbonate Scale Formation in Green Liquor Handling Systems – <i>Alisha Gialio, University of Toronto</i> Causes of Poor Dregs Settling in a Green Liquor Clarifier – <i>Torsten Meyer, University of Toronto</i>
1:30PM – 3:00PM	Session 23: Environmental-Regulatory Development Session Chair:
1:30PM – 3:00PM	IBBC Session 3: IBBC Panel Discussion✓ Moderator:
	<i>Panelist</i>
3:00PM – 3:30 PM	Break & Exhibit Open
3:30PM – 5:00PM	Session 24: Recycling Session Chair:
	
3:30PM – 5:00PM	Session 25: Tutorial on Pulping Session Chair:
	<i>Panelist:</i>
3:30PM – 5:00PM	Session 26: Strategies to Optimize Operations at the Lime Kiln ✓ Session Chair:
Co-sponsored by Environmental Working Group	Reducing GHG Emissions by Co-firing of Pyrolysis Liquid Biofuel (Bio-oil) in Lime Kiln - Muhammad Khan, University of Toronto Fate of Phosphorus in the Lime Cycle - <i>Seyedeh Maryam Sadegh Mousavi, University of Toronto</i> Combatting Lime Kiln Ringing Problems at the Arauco Constitución Mill - <i>Eduardo Keim, Celulosa Arauco y Constitucion SA</i>
3:30PM – 5:00PM	Session 27: Alkaline Pulping & Bleaching Panel Discussion <i>Panelist:</i>
	Session 28: RB Cleaning Panel Discussion Moderator:
	<i>Panelist:</i>
3:30PM – 5:30PM	Session 29: Using Fitness for Service Assessments and Addressing corrosion Challenges Through Material Selection to Support Extending Time Between Major Outages✓

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	Session Chair: <i>Matthew Tunnicliffe, FPIInnovations</i>
	Sodium Chlorate Transfer Line Corrosion Failure & New Material Study - <i>Josh Lauer, WestRock</i> Decision Analysis for Material Selection - <i>Jason Hinley, Corrosion Probe, Inc.</i> Fitness for Service: Not Just for Metal Tanks and Vessels - <i>Cody Stevens, Corrosion Probe, Inc</i> Materials Performance ⁴ in Caustic Environments - <i>Katie Day, Sandvik</i>
5:00PM – 6:30PM	Reception and Exhibit Open
6:30PM – 7:30PM	Young Professionals Mixer
7:00PM – 9:00PM	IBBC Conference Dinner**
Wednesday, October 30, 2019	
6:45AM – 8:30AM	Hot Topic Breakfast II***
7:00AM – 8:15AM	Speaker Breakfast
8:30AM – 10:00AM	Session 30: Bleaching Chemistry Session Chair:
	Singlet Oxygen as a Safe and Simple Substitute for Peracetic Acid - <i>Howard Kaplan, Kaplan Consulting LLC</i> TCF Bleaching of Viscose Pulp - <i>Alexis Metais, Xylem</i> Kraft Pulp Bleaching with a P-Stage Catalyzed by both Bicarbonate and TAED - <i>Raymond Francis, SUNY ESF</i>

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8:30AM – 10:00AM	Session 31: Using Laboratory Studies and Literature to Anticipate and Address Corrosion Challenges✓ Session Chair: <i>Diana Echols, Fatigue Technology</i>
	Performance of Structural Materials in Biomass Liquefaction Environments - <i>James Keiser, Oak Ridge National Laboratory</i> How Does Black Liquor Corrosivity Change With Decreasing REA - <i>Matthew Tunncliffe, FPIInnovations</i> Cast High Nickel Containing Austenitic Alloys for Paper and Pulp Industry - <i>Shankar Venkataraman, Schmidt + Clemens GmbH + Co. KG</i>
8:30AM – 10:00AM	IBBC Session 4: Biorefinery Technology Session Chair:
	Pelleting Characteristics of Blends of Pine Residue and Switchgrass - <i>Jaya Shankar Tumuluru, Idaho National Laboratory</i> Valorization of Willow Lignin Recovered in a Pilot-scale Biorefinery Based on Hot Water Extraction <i>Aditi Nagardeolekar, SUNY-ESF</i> Organosolv fractionation and Flexible Bio-refinery - <i>Ali Manesh, American Science and Technology</i>
8:30AM – 10:00AM	Session 32: New Boiler Designs and Operation Best Practices Session Chair:
Co-sponsored by Environmental Working Group	Development of Kraft Recovery Boilers – What have been the Main Development Steps <i>Keijo Salmenoja, ANDRITZ Oy</i> Measurement and Control of Green Liquor Density in Dissolving Tanks-A Review of Technology and Best Practices - <i>Leonard Erickson</i> <i>Combustion Systems Upgrade on CKPE the PAS Biomass-Fired Boiler – Steve Campbell, Jansen Combustion and Boiler Technologies</i>
10:30AM – 12:00PM	IBBC Session 5: Innovative Bioproducts Session Chair :
	Feasibility Study for the Implementation of an Industrial Plant for Biodegradable Food - <i>Elizabeth Palomino Nolasco</i> Life Cycle Analysis of Producing Aviation Biofuels - <i>Sudhagar Mani & Nalladurai Kaliyan, University of Georgia</i> How the Three Year Imagine Chemistry Effort Has Driven Sustainability - <i>R. Daniel Haynes, Nouryon</i>
10:00AM – 10:30AM	Break & Exhibit Open
10:30AM – 12:00PM	Session 33: Bleaching Equipment Session Chair:

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	<p>The Design of Reliable Storage Bins and Feeders for the Pulp and Paper Industry: A Review of Research Outcomes and Lessons Learned from the Field - <i>Jamil Bundalli, Kamengo Technology Inc.</i></p> <p>Turboscrubber as a Bleach Plant Scrubber Application - <i>Rohan Bandekar, Noram Engineering</i></p> <p>Money for Nothing and Your Chips for Free - <i>Amy Duncan, Dos Santos International</i></p>
10:30AM – 12:00PM	Session 34: Millwide Water Treatment Session Chair:
Session Co-sponsored by Environmental Working Group	<p>Pulp Mill Employs Novel Influent Treatment Program to Improve Reliability – <i>Timothy Duncan, Solenis</i></p> <p>Use of Ozone for Cooling Towers – <i>Alexis Metais, Xylem</i></p> <p>The Use of Electromagnetic Fluid Filtration to Remove Iron from Condensate – <i>Scott Ray, Milhous Company</i></p>
10:30AM – 12:00PM	Session 35: Troubleshooting Operation and Design Challenges in Pulp Mills Session Chair:
	<p>Concentrated Sulfuric Acid Production From Non-Condensable Gases and its Effect on Alkali and Sulfur Balances in Pulp Mills - <i>Rohan Bandekar, Noram Engineering</i></p> <p>The Formation Mechanism of Induced Draft Booster Fan Scale in a Sulfite Pulp Mill - <i>Ruzheng Wang, University of Toronto</i></p> <p>Off-Design Performance Modeling of Steam Turbines in Pulp and Paper Mills - Issues and Methodologies - <i>Michael Erbes, Enginomix LLC</i></p>
10:30AM – 12:00PM	Session 36: Life of a Lime Kiln: Design, Maintenance, and Upgrades Session Chair:
	<p>Improved Burner Designs for Optimized Lime Recovery Kiln Performance on Natural Gas Fuel <i>Martin Beddows, Kiln Flame Systems Ltd.</i></p> <p>Use of CARDOX for Ring Removal - <i>Tom Spaits, ATD Pressure Gas System</i></p> <p>Rotary Kiln Maintenance-A Comprehensive Examination of Tires Mounted on Rotary Kilns and the Various Options for Repair and Replacement- <i>Andrew Wisner, Metso</i></p>
12:00PM – 1:00PM	19 PEERS Conference Wrap up Meeting*
12:00PM	PEERS & IBBC Conclude
1:30PM – 3:00PM	Corrosion & Materials Engineering Steering Committee Meeting

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