



PROGRAM TRACKS

Biorefinery	Corrosion & Materials Engineering	Energy, Power & Recovery	Engineering & Reliability
Environmental	Lime Kiln	Nonwood	Pulping & Bleaching
Recycling	Sustainability		✓ Career Development

PROGRAM

Sunday, November 5, 2017	
8:00 AM – 12:00PM	Best Practices for Small Projects Workshop
8:00AM – 4:00PM	Bleach Plant Operations Workshop
8:00AM – 4:00PM	Brown Stock Washing Workshop
9:00AM – 2:00PM	Recaust Lime Kiln Workshop
11:30PM – 12:30PM	Joint Team Review of Conference Logistics**
12:30PM - 4:00PM	Engineering Division & Pulp Manufacture Division Councils**
4:00PM - 5:00PM	Nonwood Fibers Committee
4:30PM - 6:00PM	Alkaline Pulping & Bleaching Committee/Fiber Raw Materials
5:00PM – 7:00PM	Welcome Reception
7:00PM -9:30PM	Awards Dinner*
Monday, November 6, 2017	
8:30AM – 10:00AM	Session 1: Opening Session & Keynote ✓ Robert Tiede, Executive Vice President & CEO Sonoco Products Co.
10:00AM– 10:30AM	Break
10:30AM-12:00PM	Corrosion & Materials Engineering Steering Committee Energy, Recovery and Recaust Steering Committee
10:30AM-12:00PM	Session 2: Digester Control

*Additional registration fee required

** Member only

	Session Chair: <i>Mathias Lindström, International Paper</i>
	An Overview of the Inspection and Maintenance Process for our Batch Digester Line, <i>Alexander Shank, Domtar</i>
	Critical Design Parameters for Continuous Digesters: Consequences of New Production Targets and How to Accommodate Them, <i>Nicolaos Lemieux, Valmet</i>
	Design Concepts for Supervisory Batch Digester Control, <i>Ertan Yuzak, Schneider Electric</i>
	Session 3: State of the Industry Session Chair:
	Agenda 2020, <i>David Turpin</i>
	Session 4: Fiber Yield OCC Panel Session Chair: <i>Cesar Basilio, Thiele Kaolin Company</i>
	Get the Most out of Your OCC Plant
	Session 5: Nonwood Fiber Production Session Chair: <i>John DeJarnette, WestRock</i>
	Open
	A Novel One Step Method to Prepare Carboxycellulose Nanofibers from Raw Biomass and Their Applications to Remediation for Heavy Metal Ions, <i>Priyanka Sharma, Stony Brook University</i>
	Characterization of Pre-Hydrolyzed Banana (<i>Musa sapientum</i>) Stem Pulp to Find out Its Suitability as an Alternative Raw Material, <i>Atanu Kumar Das, PT. Indiah Kiat Pulp and Paper Tbk</i>
12:00PM – 1:20PM	Lunch
12:00PM – 1:20PM	Engineering Division Committee of Chairs**
1:30PM – 3:00PM	Energy, Recovery and Reconst Main Committee
1:30PM – 3:00PM	Session 6: New Technology Showcase Session Chair:
	Session 7: Work Life Balance Panel (Sponsored by Young Professional) ✓ Session Chair: <i>Evan Brunner, Green Blue</i>
	Session 8: Chip Quality Management Tutorial Session Chair: <i>Sabrina Burkhardt, Sustainable Fiber Technologies</i>
	Moderator: Alastair Twaddle, International Paper
3:00PM – 3:30PM	Break
3:30PM - 5:00PM	Energy Subcommittee (ERR) Lime Kilns & Reconst Subcommittee (ERR) Recovery & Power Boilers Subcommittee (ERR) Water Treatment Subcommittee (ERR) Environmental & Sustainability Working Group Plant Engineering & Project Management Committee Meeting
	Session 9: Digester Operations Session Chair: <i>Ashok Ghosh, WestRock</i>
	Dry Chip Feedrate Control Using Online Chip Moisture, <i>Wesley Gilbert, FPInnovations</i>
	Digester Rake Arms - <i>Craig Reid/Kyle Sabourin, Acuren</i>
	Session 10: Nonwood Pulp & Characterization Session Chair: <i>Aamirah Allykhan, Econotech</i>

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	Does the Kappa Number Method Accurately Reflect Lignin Content in Nonwood Pulps - <i>Sabrina Burkhardt, Sustainable Fiber Technologies</i>
	Pilot Papermaking with Malaysian Oil Palm Empty Fruit Bunch Pulp: Part 3 - <i>Robert W. Hurter, HurterConsult Inc.</i>
	Session 11: Measure It So You Can Improve Session Chair: <i>Mahendra Doshi, Doshi and Associates Inc.</i>
	Stickies Diagnostic Methodology: What is Your Fiberline Stickies Removal Efficiency - <i>Joff Cowan, Pulmac Systems International</i>
	The Application of Near Infrared Digital Image Analysis for Deinking Evaluation - <i>Roland Gong, University of Wisconsin-Stevens Point</i>
	Open
5:00pm-6:30pm	Reception
7:00pm-9:00pm	PEERS Conference Networking Dinner** Sponsored by: <i>Andritz</i>
Tuesday, November 7, 2017	
6:45am - 8:30am	Hot Topic Breakfast
7:00am – 8:00am	PaperChase Fun Run/Walk
8:30am – 10:00am	Corrosion & Mechanical Engineering Main Committee
8:30am-10:00am	Session 12: Biorefinery Bridge I Session Chair: <i>Danny Haynes, AkzoNobel</i>
	Rapid Wood Fractionation $\leq 80^{\circ}\text{C}$ for Sustainable Productions of Pulp, Cellulose and Lignin Nanomaterials, and Sugar/Biofuels - <i>Jonyong (J.Y.) Zhu, US Forest Service R&D, Forest Products Laboratory</i>
	Ethyl xylosides formation in SEW (AVAP®) fractionation of sugarcane straw; Implications for ethanol and xylose recovery - <i>Asif Sharazi, University of Maine</i>
	Kinetics of Prehydrolysis Process of Eucalyptus Urograndis Wood - <i>Rafael dos Santos, IFSP - Federal Institute of São Paulo</i>
	Session 13: Recycling 101 ✓ Session Chair: <i>Ryan Henry, Green Bay Packaging</i>
	Voith Screening (OCC) Tutorial - <i>May Fursey and Bill Ittman, Voith</i>
	Session 14: Measurement & Control Session Chair: <i>Alan Rudie, USDA Forest Products Laboratory</i>
	Predicting the Impact of Wood Fibers Processing Using Fluorescent Carbohydrate Binding Modules - <i>Mark Reed, Buckman</i>
	Pulp Mill Installation and Operations of Standardized On-Machine Visible Dirt Measurement - <i>Roland Trepanier, OpTest Equipment Inc.</i>
	Pulping and Stock Prep - Profitable Online Testing - <i>Humphrey Moynihan, WestRock</i>
	Session 15: Plant Optimization ✓ Session Chair: <i>Mathias Lindstrom, International Paper</i>
	Expansion of Chemical Recovery Capacity at Södra Cell Värö - <i>Raymond Burelle, Valmet</i>

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	Material Constraints for Maximizing Power Production from Kraft Recovery Boilers - <i>Keijo Salmeoja, Andritz, Oy</i>
	Current Steam Turbine Technology and its Applicability in the Pulp and Paper Market - Including Case Studies - <i>Exor Montes, Siemens Energy</i>
10:00am – 10:30am	Break
10:30am-12:00pm	Session 16: Biorefinery Bridge II Session Chair: <i>Jonyong (J.Y.) Zhu, US Forest Service R&D, Forest Products Laboratory</i>
	Developing Lignoboost for the End User Lignin Quality Requirements - <i>Kristin Lindholm, Valmet, Inc.</i>
	Characterization and Properties of Crosslinked Carboxymethylated Hemicellulose Hydrogels - <i>Wenhui Geng, NCSU</i>
	Alkaline Deacetylation of Northeast Hardwood for Production of Acetic Acid- <i>Joseph Genco, University of Maine</i>
	Session 17: Session Chair:
	Reconsidering Screening: A New Technology to Boost Your Screen Room Performance - <i>Chris Demler, Kadant Black Clawson</i>
	ProLab Refiner Based Method for Evaluating Strength Potential of Recycled Fiber - <i>Ashok Ghosh, WestRock</i>
	Open
	Realizing Fiber Quality w/Varying Feed Stock - <i>Joff Cowan??</i>
	Session 18: Maintenance Solutions ✓ Session Chair: <i>Katie Day, Sandvik</i>
	The Art of Information Management for a Tank Integrity (TI) Program- <i>Nancy Hoffman, Equipment Reliability Solutions, LLC</i>
	Kiln Crack Repair Using Aerospace Technology - <i>Diana Echols, Fatigue Technologies, Inc.</i>
	A Hundred Years of Corrosion in the Pulp & Paper Industry - <i>Max Moskal, M & M Engineering Associates</i>
	Session 19: Brown Stock Washing ✓ Session Chair: <i>Humphrey Moynihan, WestRock</i>
	Brown Stock Washing Experience - <i>Lee Brunner, Hargrove</i>
	Evaluating Brown Stock Washing - <i>Mona Henderson, Valmet</i>
	Improving Organic Removal in Brown Stock Washing – <i>Kraig R. Kent, Nalco Water an Ecolab Company</i>
	Session 20: Operating Solutions Session Chair: <i>Jack Porter</i>
	Pre-Evaporation Choices for Incremental Evaporative Capacity in Existing Mills - <i>Kinley Moore, KBR</i>
	Leaching and Crystallization Methods for Chloride and Potassium Removal from Recovery Boiler Fly Ash - <i>Anti Frigard, Andritz, Oy</i>

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	Novel Chemical Solution Addresses Organic Fouling in Pulp Mill Stripping Systems - <i>Scott LeGrand, Solenis</i>
	Developing LignoBoost for the End User Lignin Quality Requirements – <i>Kristin Lindholm, Valmet AB</i>
	Session 21: Improved Kiln Operations & Efficiency: Session 1 ✓ Session Chair:
	Achieving 18 Months of Production on Lime Kilns in the Pulp & Paper Industry - <i>Andrew Wisner, Andritz</i>
	The Use of Parametric Analysis to Identify Opportunities for Improved Operations of Lime Kilns - <i>Richard Manning, Kiln Flame Systems (KFS)</i>
	Monitoring the Free Lime Content in Lime Mud Using Zeta Potential - <i>Wei Ren, FITNIR Analyzers Inc.</i>
	Characterization of a Dusting Lime Kiln - A Mill Study- <i>Henric Dernegård, Södra Cell Mönsterås</i>
12:00pm - 1:20pm	2018 PEERS Technical Program Planning Meeting*
12:00pm - 1:30pm	Lunch
1:30pm - 2:30pm	Fiber Recycling Committee Meeting
1:30pm-3:00pm	IBBC Opening Session & Keynote Presentations <i>Mark DeAndrea, Domtar</i>
	Session 22: Project Management Panel Session Chair: <i>Subra Arasakesari, International Paper</i>
	<i>Panelist:</i> Chris Bailey, <i>ITAC</i> Randy Chandler, <i>O’Neal</i> Katherine S. Marusin, <i>Independent Project Analysis, Inc.</i>
	Session 23: Digester Corrosion Panel I Session Chair: <i>John Grocki, Advantage Resources Consulting LLC</i>
	Service Thinning of a Duplex Stainless Steel Batch Digester: Dissolving Pulp Process (with Lean Duplex Option Evaluation) - <i>Ronald Lansing, M & M Engineering</i>
	Session 24: Chemical Solutions ✓ Session Chair: <i>Chris Jackson, AXA MATRIX Risk Consultants</i>
	On the Installation of Learning of an FT-NIR Liquor Analyzer at the PT OKI Pulp & Paper Mill - <i>Tom Sands, FITNIR Analyzers, Inc.</i>
	Control of Sulfidity in a Modern Kraft Pulp Mill - <i>Martin Wimby, Valmet</i>
	Update on Optimizing Black Liquor Recovery Throughput and Campaign Life With Chemical Additive - <i>Zack Read and Chris Smyrniotis, Fuel Tech, Inc.</i>
	Session 25: Oxygen and Peroxide Bleaching ✓ Session Chair: <i>Peter Hart, WestRock</i>
	Using Online Bubble Size and Total Dissolved Solids (TDS) Measurements for Investigating the Performance of Oxygen Delignification - <i>Riku Kopra, Fiber Laboratory, South-Eastern Finland University of Applied Science</i>

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	Effects of Lignin Chemistry on the Oxygen Bleaching Stage Performance - <i>Hanson Jameel, NCSU</i>
	Impact of Dissolved Lignin in Peroxide Bleaching - <i>Niclas Andersson, BTG Instruments</i>
3:00pm - 3:30pm	Break
3:30pm - 5:00pm	Session 26: Digester Corrosion Panel II Session Chair: <i>Sandy Sharp, SharpConsultant</i>
	Insights on the 1994 Panama City Batch Digester Explosion – <i>Max Moskal, M & M Engineering Associates</i>
	Session 27: Brown Stock War Stories Panel ✓ Session Chair: <i>Robert Wilson, AMS</i>
	Co-Moderators/Panelists: <i>Robert Wilson, AMS (Applied Material Solutions)</i> <i>Bill Miskimins, Kemira</i>
	Session 28: Hydraulics Reliability, Kiln Energy Savings, Recovery Safety & Downtime Session Chair: <i>Richard Christner, Kapstone</i>
	The Ten Hydraulic Reliability Checks You Aren't Making - <i>Jack Weeks, GPM Hydraulic Consulting, Inc.</i>
	Energy Saving Refractory Products to Reduce Your Carbon Foot-Print - <i>Garret Pair, Refratechnik North America, Inc.</i>
	Improved Recovery Boiler Cooling and Washing Practices - <i>Raymond Burelle, Valmet</i>
	Session 29: Recovery Boiler Operation & Control ✓ Session Chair: <i>Thanh Trung, FITNIR Analyzers Inc.</i>
	Formation Mechanisms of "Jellyroll" Smelt in Kraft Recovery Boilers - <i>Honghi Tran, University of Toronto</i>
	Visualization of the Behavior of Molten Smelt Droplets in the Kraft Recovery Boiler Dissolving Tank - <i>Eric Jin, University of Toronto</i>
	Use of Vent Stack Temperature as a Feedforward Variable for Dissolving Tank TTA – <i>Wei Ren, FPInnovations</i>
	Session 30: Water System Improvements Tutorial Session Chair: <i>Ryan P. Henry, Green Bay Packaging</i>
	Anerobic Digestion - <i>Brad Lettner</i>
	Optimization for Water System Issues - <i>Brad Lettner</i>
	Session 31: Environmental - Water Treatment Session Chair:
	Wastewater Microorganisms: Where, When and Why - <i>Shawn Whitmer, Probiotic Solutions</i>
	Disruptive Measures in Wastewater Treatment - <i>Ronald Pote, Byo-Gon, Inc.</i>
	Four Approaches to Water Filtration - <i>Bill Nichols, KBR</i>
5:00pm - 6:30pm	Reception & IBBC Poster Session & Reception

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6:30pm-7:30pm	Young Professionals Mixer
Wednesday, November 8, 2017	
6:45am - 8:30am	Hot Topic Breakfast
8:30am-10:00am	Session 32: Improved Kiln Operations & Efficiency Session II ✓ Session Chair: <i>Subra Arasakesari, International Paper</i>
	High Recycle, High Efficiency Cyclone – A Case Study - <i>Todd Lewick, Andritz, Inc.</i>
	Effect of Ring Formation on Burner Flame Stability in Lime Kiln - <i>Honghi Tran, University of Toronto</i>
	Successful Conversion to Gas Firing - How to Get the Best Outcome for Productivity and Emissions - <i>Adriano Greco, FCT Combustion</i>
	Session 33: Bleaching Optimization Session Chair: <i>Brian N. Brogdon, Future Bridge</i>
	Evaluation of Acid Stage and of Hydrogen Peroxide on Alkaline Extraction of Eucalyptus Kraft Pulp - <i>Rafael dos Santos, IFSP - Federal Institute of São Paulo</i>
	Bleach Plant pH Control Alternatives - <i>James Goldman, Valmet</i>
	Decreased Water Usage in a Softwood ECF Bleaching Sequence - Full Mill Simulations - <i>Pia Jour, AkzoNobel Pulp and Performance Chemicals</i>
	Session 34: Controlling Flue Gas Emissions Session Chair: <i>Pasi Miikkulainen, Andritz Inc.</i>
	Feasibility of Fabric Filters in Reducing Dust Emissions from Kraft Recovery Boilers - <i>Pauliina Sjögård, Andritz</i>
	A Review of Factors Affecting Particulate Removal Efficiency of Kraft Recovery Boiler Electrostatic Precipitators - <i>Ezzat Jaroudi, University of Toronto</i>
	Characterization of a Dusting Lime Kiln – A Mill Study – <i>Henric Dernegård, Södra Cell Mönsterås</i>
	Recovery Boiler SCR - a Challenge and an Opportunity in Retrofit Cases - <i>Erkki Välimäki, Valmet Technologies OY</i>
10:00am - 10:30am	Break
	Session 35: By-Product Recovery Session Chair: <i>Ashok Ghosh, WestRock</i>
	Tall Oil Turpentine Panel
	Session 36: Lime Kiln Panel Session Chair: <i>Thanh Trung, FITNIR Analyzers Inc.</i>
	Session 37: Efficiency Optimization ✓ Session Chair: <i>Andrew Jones, International Paper</i>
	An Update on Mixing of High Momentum Flux Jets with a Confined Crossflow: Computational Analysis and Applications to Recovery Boiler Air Systems - <i>Viljami Maakala, Andritz</i>
	Reducing Steam Generation Variability Through Advanced Biomass Combustion Controls - <i>Benoit Janvier, Enero Solutions, Inc.</i>

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	Plant and Boiler Energy Efficiency Evaluations - <i>Marcel D. Berz, Jansen Combustion and Boiler Technologies, Inc.</i>
	Session 38: Environmental/Sustainability – Water Session Chair:
	Evaluation of a Novel and Green Bench Top and On-Line COD Analyzer for Pulp Mill Effluents - <i>Stephanie Horner, MANTECH</i>
	Primary Clarifier Odor Control - Replacing Nitrates with D.O. - <i>Kevin Jacobs, ECO Oxygen Technologies</i>
	Comparative Environmental Life Cycle Assessment of Elemental Chlorine Free and Total Chlorine Free Bleaching Techniques - <i>Tiago de Assis, NC State University</i>
12:00pm – 1:00pm	17 PEERS Conference Critique Committee*
12:00pm	PEERS Concludes

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