



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 – 4:00PM	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
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
4:30PM - 6:00PM	Alkaline Pulping & Bleaching /Fiber Raw Materials Committee Meeting
5:00PM – 7:00PM	Welcome Reception
7:00PM -9:30PM	Awards Dinner*

*Additional registration fee required

** Member only

Monday, November 6, 2017

8:30AM – 10:00AM	Session 1: Opening Session & Keynote ✓ Robert C. Tiede, Executive Vice President & COO Sonoco Products Co. Disrupter or Disrupted? - How Innovation Defines Your Destiny
10:00AM– 10:30AM	Break
10:30AM-12:00PM	Corrosion & Materials Engineering Steering Committee Meeting Energy, Recovery and Recaust Steering Committee Meeting
10:30AM-12:00PM	Session 2: Digester Control Session Chair: Mathias Lindström, International Paper
	Critical Design Parameters for Continuous Digesters - <i>Nicolaos Lemieux, Valmet</i>
	Design Concepts for Supervisory Batch Digester Control - <i>Ertan Yuzak, Schneider Electric Software</i>
	Dry Chip Feedrate Control Using Online Chip Moisture - <i>Wesley Gilbert, FPIInnovations</i>
	Session 3: State of the Industry Session Moderator: David Turpin, Agenda 2020
	Panelist: <i>Bob Feeser, WestRock</i> <i>Dirk Krouskop, NCASI</i> <i>Norman Marsolan, Renewable Bioproducts Institute at Georgia Tech</i> <i>Alan Rudie, USFS FPL</i> <i>Bertil Stromberg, Andritz</i>
	Session 4: OCC Fiber Yield Panel Session Chair: Cesar Basilio, Thiele Kaolin Company
	Panelist: <i>Neale Fetterly, Kadant Black Clawson LLC</i> <i>Marty Daniel, Thiele Kaolin Company</i> <i>Ryan Henry, Green Bay Packaging</i>
	Session 5: Nonwood Fiber Production Session Chair: John DeJarnette, WestRock
	Non Woods in Today's Marketplace - <i>Mark Lewis, Sustainable Fiber Technologies</i>
	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. Indah Kiat Pulp and Paper Tbk & Asian Institute of Technology (AIT)</i>
12:00PM – 1:30PM	Lunch
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 6: New Technology Showcase Session Chair: <i>Timo Bungert, Andritz</i>
	<ul style="list-style-type: none"> - Optimizing the Cooking Process Using an Online NIR Chip Moisture Analyzer <i>Cheryl Sewell, FITNIR Analyzers Inc.</i> - Collaboration Toward Successful Energy Management Projects – <i>Mathieu Blouin, FPInnovations</i>
	Session 7: Work Life Balance Panel (Sponsored by Young Professional) ✓ Session Chair: <i>Evan Bruner, GreenBlue</i>
3:00PM – 3:30PM	Break
3:30PM - 5:00PM	Committee Meetings: Energy Subcommittee (ERR) Lime Kilns & Recast Subcommittee (ERR) Recovery & Power Boilers Subcommittee (ERR) Water Treatment Subcommittee (ERR) Environmental & Sustainability Working Group Plant Engineering & Project Management
	Session 8: Chip Quality Management Tutorial Presenter: <i>Alastair Twaddle, International Paper</i>
	Session 9: 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>
	Using Proven Aerospace Technology to Retard Crack Growth for Kiln Applications- <i>Diana Echols, Fatigue Technologies, Inc., a PCC Company</i>
	A Hundred Years of Corrosion in the Pulp & Paper Industry - <i>Max Moskal, M & M Engineering Associates, Division of Acuren Inspection, Inc.</i>
	Session 10: Nonwood Pulping & Characterization Session Chair: <i>Aamirah Allykhan, Econotech</i>
	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>
	NIR Digital Image Analysis for Deinking Evaluation- <i>Roland Gong, University of Wisconsin-Stevens Point</i>
5:00pm-6:30pm	Reception
7:00pm-9:00pm	PEERS Conference Networking Dinner* Sponsored by: <i>Andritz</i>
Tuesday, November 7, 2017	

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6:45am - 8:30am	Hot Topic Breakfast
7:00am – 8:00am	PaperChase Fun Run/Walk
8:30am-10:00am	Session 12: Biorefinery Bridge I Session Chair: <i>Danny Haynes, AkzoNobel</i>
	Rapid Delignification of Wood at 80°C using an Easily Recyclable Hydrotropic Acid: Potential for Pulp Production- <i>Jonyong (J.Y.) Zhu, US Forest Service R&D, Forest Products Laboratory</i>
	Ethyl xylosides formation during SO ₂ -Ethanol-Water (SEW) pulping of sugarcane straw- <i>Adriaan van Heiningen, University of Maine</i>
	Session 13: Recycling 101 Tutorial ✓ Session Chair: <i>Ryan P. Henry, Green Bay Packaging</i>
	Recycling 101- OCC Systems - <i>William Pitman, Voith Paper</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 Lindström, International Paper</i>
	Expansion of Chemical Recovery Capacity at Södra Cell Värö Mill, Sweden- <i>Raymond Burelle, Valmet</i>
	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>
8:30am – 12:00pm	Corrosion & Materials Engineering Main Committee Meeting
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>
	Carboxymethylation of hemicellulose and hemicellulose-based hydrogels - <i>Wenhui Geng, North Carolina State University</i>
	Kinetics of Deacetylation of Northeast Hardwood - <i>Joseph Genco, University of Maine</i>
	Session 17: Recycling Improvements Session Chair: <i>Marty Daniel, Thiele Kaolin Company</i>
	New Technology to Boost Your Screen Room Performance - <i>Chris Demler, Kadant Black Clawson LLC</i>
	Recycled Fiber Strength Development Using a Lab Refiner - <i>Ashok Ghosh, WestRock</i>

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	Session 18: Brown Stock Washing ✓ Session Chair: <i>Humphrey Moynihan, WestRock</i>
	Brown Stock Washing Experience – Lessons Learned - <i>Frederick Brunner, Hargrove</i>
	Evaluating Brown Stock Washing - <i>Mona Henderson, Valmet Inc.</i>
	Improving Organic Removal in Brown Stock Washing Process - <i>Kraig R. Kent, Nalco Water an Ecolab Company</i>
	Session 19: Operating Solutions Session Chair: <i>Jack Porter, FITNIR Analyzers Inc.</i>
	Pre-Evaporation Choices for Incremental Evaporative Capacity in Existing Mills – <i>D. Kinley Moore, KBR</i>
	Removal of Cl and K from Recovery Boiler Precipitator Dust - Ash Leaching & Ash Recrystallization Methods- <i>Anti Frigård, Andritz, Oy</i>
	Novel Chemical Solution Addresses Organic Fouling in Pulp Mill Stripping Systems - <i>Scott LeGrand, Solenis LLC</i>
	Session 20: Improved Kiln Operations & Efficiency I ✓ Session Chair: <i>Subra Arasakesari, International Paper</i>
	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>Glenn M. Hanson III, Kiln Flame Systems (KFS)</i>
	Monitoring the Free Lime Content in Lime Mud Using Zeta Potential - <i>Wei Ren, FPIInnovations</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 Presentation <i>Mark F. DeAndrea, Domtar</i> <i>Transformation of Pulp and Paper and the Opportunity Called Biomaterials</i>
	Session 21: Project Management Panel Session Chair: <i>Subra Arasakesari, International Paper</i>
	Panelist: <i>Chris Bailey, ITAC</i> <i>Randy Chandler, O’Neal</i> <i>Dan Krekeler, Babcock & Wilcox</i> <i>Katherine S. Marusin, Independent Project Analysis, Inc.</i>
	Session 22: Digester Corrosion Panel I Session Chair: <i>John Grocki, Advantage Resources Consulting LLC</i>
	Digester fabrication, in-plant installation, and material challenges - <i>Mike Bird Chattanooga Boiler</i>
	Batch Digester Inspection and Maintenance at Domtar Espanola - <i>Alex Shank, Domtar</i>

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	Insights on the Panama City Batch Digester Explosion - Max Moskal, <i>M & M Engineering Associates, Division of Acuren Inspections, Inc.</i>
	Case Study Service Thinning of a Duplex Stainless Steel Batch Digester: Dissolving Pulp Process – Max Moskal, <i>M & M Engineering Associates, Division of Acuren Inspections, Inc.</i>
	Session 23: Chemical Solutions ✓ Session Chair: <i>Chris Jackson, AXA MATRIX Risk Consultants</i>
	Control of Sodium-Sulfur Balance in a Modern Kraft Pulp Mill - <i>Martin Wimby, Valmet</i>
	Chemical Additives in Optimize Black Liquor Recovery Throughput and Increase Campaign Life - <i>Chris Smyrniotis, Fuel Tech, Inc.</i>
	Session 24: Oxygen and Peroxide Bleaching ✓ Session Chair: <i>Peter W. Hart, WestRock</i>
	Using Online Bubble Size and Total Dissolved Solids (TDS) Measurements for Investigating the Performance of Oxygen Delignification - <i>Riku Kopra, University of Applied Science</i>
	Effects of Lignin Chemistry on the Oxygen Bleaching Stage Performance - <i>Hanson Jameel, North Carolina State University</i>
	Impact of Dissolved Lignin in Peroxide Bleaching (Peroxide Reinforced Alkaline Extraction) - <i>Niclas Andersson, BTG Instruments</i>
3:00pm - 3:30pm	Break
3:30pm - 5:00pm	Session 25: Digester Corrosion Panel II Session Chair: <i>Sandy Sharp, SharpConsultant</i>
	External corrosion of a digester by weather events - <i>Jay Sheerer</i>
	Continuous Digester Repairs for Corrosion and Cracking - <i>Margaret Gorog, International Paper</i>
	Corrosion in digesters - <i>Robert Carlström, Valmet</i>
	Session 26: Brown Stock Washing 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 27: 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>
	Improved Recovery Boiler Cooling and Washing Practices - <i>Raymond Burelle, Valmet</i>
	Session 28: Recovery Boiler Operation & Control ✓ Session Chair: <i>Thanh Trung, FITNIR Analyzers Inc.</i>
	An Update of Mixing of High Momentum Flux Jets with a Confined Crossflow: Computational Analysis and Applications to Recovery Boiler Air Systems - <i>Mika Järvinen, Aalto University</i>

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	Formation Mechanisms of "Jellyroll" Smelt in Kraft Recovery Boilers - <i>Honghi Tran, University of Toronto</i>
	The Effect of Smelt Composition on Smelt Droplet-Water Interaction - <i>Eric Jin, University of Toronto</i>
	Use of Vent Stack Temperature as a Feedforward Variable for Dissolver TTA Control- <i>Wei Ren, FPInnovations</i>
	Session 29: Water System Improvements Tutorial Session Chair: <i>Ryan P. Henry, Green Bay Packaging</i>
	Proper Water Management and the Bio-Kidney Effect on Paper Mill Water Systems <i>Ryan Coda, Voith Meri Environmental Solutions Inc.</i>
	Session 30: Environmental - Water Treatment Session Chair: <i>Daniel A. Curry, TRC Environmental Corporation</i>
	Microbes - 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
6:30pm-7:30pm	Young Professionals Mixer
Wednesday, November 8, 2017	
6:45am - 8:30am	Hot Topic Breakfast
8:30am-10:00am	Session 31: Improved Kiln Operations & Efficiency II ✓ Session Chair: <i>J. Peter Gorog, Houghton Cascade Holdings, LLC</i>
	Effect of Ring Formation on Burner Flame Stability in Lime Kiln - <i>Girish Mohanan, 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 32: Bleaching Optimization Session Chair: <i>Brian N. Brogdon, Future Bridge Consulting Services LLC</i>
	Evaluation of Acid Stage and of Hydrogen Peroxide on Alkaline Extraction of Eucalyptus Kraft Pulp - <i>Rafael dos Santos, Federal Institute of São Paulo</i>
	Alternative Fiberline pH Control Methods When Inlet pH Sensors are Not Feasible - <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 33: 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>
	Factors Affecting Particulate Removal Efficiency of Kraft Recovery Boiler Electrostatic Precipitators – A Technical Review - <i>Ezzat Jaroudi, University of Toronto</i>

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	Recovery Boiler SCR - A Challenge and an Opportunity in Retrofit Cases - <i>Jarmo Maniskkasalo, Valmet Technologies OY</i>
10:00am - 10:30am	Break
	Session 34: By-Product Recovery Panel Session Chair: <i>Mathias Lindstrom, International Paper</i>
	<i>Mathias Lindström, PhD and subject matter expert for by-products recovery (International Paper Technology) is hosting a panel of industry experts to discuss safe and best practices for by-products recovery. Panel focus is operator and system safety in managing recovery of tall oil soap and turpentine and safe handling of tall oil soap, crude tall oil and crude sulfate turpentine.</i>
	Session 35: Lime Kiln Panel Session Chair: <i>Thanh Trung, FITNIR Analyzers Inc.</i>
	Panelist: <i>Glenn M. Hanson III, Kiln Flame Systems (KFS)</i> <i>Ray Leary, Houghton Cascade Holdings, LLC</i> <i>Honghi Tran, University of Toronto</i> <i>Henric Dernegård, Södra Cell Mönsterås</i>
	Session 36: 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>
	Plant and Boiler Energy Efficiency Evaluations - <i>Stephen Campbell, Jr., Jansen Combustion and Boiler Technologies, Inc.</i>
	Session 37: Environmental/Sustainability – Water Session Chair: <i>Daniel A. Curry, TRC Environmental Corporation</i>
	Evaluation of a Novel and Green On-Line COD Monitoring Technology - <i>Stephanie Horner, MANTECH</i>
	Primary Clarifier Odor Control - Anson-Madison Sanitary District - <i>Kevin Jacobs, ECO Oxygen Technologies</i>
	Comparative Life Cycle Assessment (LCA) of Elemental Chlorine Free and Total Chlorine Free Bleaching - <i>Tiago de Assis, North Carolina State University</i>
12:00pm – 1:00pm	17 PEERS Conference Critique Committee Meeting*
12:00pm	PEERS Concludes

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