Pulping
Engineering
Environmental
Recycling
Sustainability





PROGRAM TRACKS

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

PROGRAM

AS OF 10-12-18 (SUBJECT TO CHANGE)

Sunday, October 28, 2018	
7:30AM – 4:00PM	Bleach Plant Operations Workshop**
8:00AM – 4:00PM	Brown Stock Washing Workshop**
8:00AM – 4:00PM	Process Simulation Workshop**
9:00AM – 2:00PM	Lime Kiln & Recaust: Process & Mechanical Overview 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 29, 2018
7:00AM – 8:15AM	Speaker Breakfast
8:30AM – 10:00AM	Session 1: Opening Session & Keynote ✓ Session Chair: Mark P. LeBel, Andritz Nippon Paper Industries – Shaping the Future with Trees Keynote: John Carpenter, President, Nippon Dynawave Packaging
10:00AM – 10:30AM	Break
10:30AM – 12:00PM	Session 2: Bleaching Optimization ✓ Session Chair: Tom Mullen, Process Innovations
	pH in the Bleach Plant - Why It's Important and What to Do About It - Part I: CIO ₂ Stages - <i>Doug Reid, AkzoNobel Pulp and Performance Chemicals</i> Using Multistage Models to Evaluate How Pulp Washing after the First Extraction
	Stage Impacts Elemental Chlorine-Free Bleach Demand - Brian N. Brogdon, Future Bridge Consulting Services, LLC Implementation of the Near-Neutral Chlorine Dioxide Brightening Technology at Domtar Johnsonburg Mill – Michael J. Subilia II, Domtar
10:30AM - 12:00PM	Session 3: State of the Industry ✓ Session Chair: Daniel A. Curry, TRC Environmental Corporation
	Managing Investing Decisions in Pulp and Paper Industry - Gagandeep Issar, Enerflex Partnerships for Technology Challenges Panel Discussion
	Moderator: David Turpin, APPTI Panelists:
	Peter W. Hart, WestRock
	Fritz Paulsen, KapStone Paper & Packaging Company Anthony Murray, Kadant
10:30AM – 12:00PM	Anthony Murray, Kadant Alan Rudie, USDA Forest Products Laboratory Scott Sinquefield, Georgia Institute of Technology Adriaan van Heiningen, University of Maine Energy, Recovery and Recaust Steering Committee Meeting*
	Anthony Murray, Kadant Alan Rudie, USDA Forest Products Laboratory Scott Sinquefield, Georgia Institute of Technology Adriaan van Heiningen, University of Maine
12:00PM	Anthony Murray, Kadant Alan Rudie, USDA Forest Products Laboratory Scott Sinquefield, Georgia Institute of Technology Adriaan van Heiningen, University of Maine Energy, Recovery and Recaust Steering Committee Meeting*

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1:30PM – 3:00PM	Session 4: New Technology Showcase Session Chair: Randy Stern, Valmet
	NeuroDIC Software for Quantification of the Volume of Stacked Wood - Harliany Matias, HaDa Tecnologiz
	Old Drum Washer Updating and Consumption Reduction – Henry Chen, Wenrui Machinery (Shandong) Co., Ltd.
	NORAM's TurboScrubber® - Bleach Plant Scrubber - Rohan Bandekar, Noram Engineering and Constructors Limited
	Residual Compressive Stress as a Crack Arrest Method - Diana Echols, Fatigue Technology
	High Speed Centrifugal Separator Technology for Upgrading Soap Recovery at Kraft Mills - <i>Marc Sabourin, HEAD Engineering AB</i>
	ECHOWISE - Listening to Your System - Tom Holm, Buckman International
	Clyde Bergemann's Certified Lance & Feed Tubes - Ishaq Jameel, Clyde Bergemann Power Group Americas Inc.
	Drones for Internal Inspections - Christian Smith, Interactive Aerial, Inc.
	FT-NIR Measurement Of Solids and Lignin for Next Generation Digester Control – Cheryl Sewell, FITNIR Analyzers, Inc.
	Development and Application of an Object-Oriented Simulation Tool for Kraft Recovery Processes - <i>Michael Erbes, Enginomix, LLC</i>
1:30PM – 3:00PM	Session 5: Brownstock Washing Session Chair: <i>Mathias Lindström, International Paper</i>
	How to Use TDS Measurements to Evaluate the Performance of Diffuser Washers – Mill Study - Riku Kopra, South-Eastern Finland University of Applied Sciences, Fiber Laboratory
	Fast and Accurate Online Measurement of Differentiated Lignin and HexA Kappa Numbers Leads to Improved Fiberline Control - <i>Niclas Andersson, BTG</i> <i>Instruments</i>
	Novel Chemistries Enable Pulp Mills to Recover Lost Washing Efficiency - Harold Petke, Solenis, LLC

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1:30PM – 3:00PM	Session 6: Subject to Debate ✓
	Moderators: Kimberly Cowan, PULMAC Systems Heather Jennings, Probiotic Solutions Thomas T. Kwok, Georgia Institute of Technology Michael J. Subilia II, Domtar
1:30PM – 3:00PM	Session 7: Improving Chlorate Efficiency
3:00PM - 3:30PM	Break & Exhibit
3:30PM – 5:00PM	Session 8: Advances in Pulping and Bleaching ✓ Session Chair: Brian N. Brogdon, Future Bridge Consulting Services, LLC
3:30PM – 5:00PM	Catalyzed Pulping Using Cobalt Salcomine - Alan Rudie, USDA Forest Products Laboratory Technological Evaluation of Pinus Maximinoi Wood for Industrial Use in Kraft Pulp Production- Flaviana Reis Milagres, Klabin S.A. Validation of a Modified Berty Reactor for Studying the Intrinsic Kinetics and Selectivity of Oxygen Delignification of Southern Pine Kraft Pulp - Azadh Pahlevanza, University of Maine 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
3:30PM – 5:00PM	Session 9: Recycling Session Chair: Cesar I. Basilio, Thiele Kaolin Company
	Disc Filter Total Care-Keeping Your Filter from Becoming a Money Pit - Mick Wert & Nicolas Reinke, Voith Cleaner Efficiency Determination via Sequential Extraction in OCC Pulp - Ashok Ghosh, WestRock Using Intelligent Cameras in Pulp Production - Petri Karhula, Procemex Ltd.

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3:30PM - 5:00PM	Session 10: Nonwood
3.301 W - 3.00F W	Session Chair: Gary Breaux, Solvay
	Pulping and TCF Bleaching of Canadian Wheat Straw and Oat Straw -
	Robert (Bob) Hurter, HurterConsult, Inc.
	Characteristics and Potential of Sulfur-Free Nonwood Lignin – Sabrina J.
	Burkhardt, Sustainable Fiber Technologies
	Cannabis, a Higher Style of Pulping - Mark Lewis, Sustainable Fiber Technologies
5:00PM - 6:30PM	Reception & Exhibit
7:00PM – 9:00PM	PEERS Conference Networking Dinner**
	Sponsored by:
	Tuesday Ostobar 20, 2019
	Tuesday, October 30, 2018
6:45AM – 8:30AM	Hot Topics Breakfast I ***
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	Bleach Plant Scale Control
	Moderator: Peter W. Hart, WestRock
	No. 201
	Nonwood Moderator: Mark Lewis, Sustainable Fiber Technologies
	Moderator. Mark Lewis, Sustainable Fiber Technologies
	Bleach Plant Optimization: Where to Use the Various Bleaching Chemicals in
	Bleaching Sequence
	Moderator: Brian N. Brogdon, Future Bridge Consulting Services LLC
	Black Liquor Firing Techniques
	Moderator: Pasi H. Miikkulainen, Andritz
	Overview of APPTI Alliance
	Moderator: David Turpin, APPTI
	Tariff Impacts to the Paper Industry
	Moderator: Meg Murphy, Felker Brothers
6:45AM – 8:00AM	PaperChase Fun Run/Walk**
7:00AM – 8:15AM	Speaker Breakfast
8:30AM –	Session 1: IBBC Keynote
10:00AM	Session Chair: R. Daniel Haynes, AkzoNobel Specialty Chemicals
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	The Pulp and Paper Industry - What Do You See?
	Martin Pudlas, VP Operations and Innovation - Canfor Pulp
8:30AM –	Plant Engineering & Project Management Committee
10:00AM	

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8:30AM –	Session 11: Lime Kiln Refractories
10:00AM	Session Chair: Ray Leary, Houghton Cascade Holdings LLC
	Refractory Brick Installation Guidelines for Increased Kiln Reliability -
	Chris Hersh, HarbisonWalker International
	Best Practices and Guidelines for Selection of Refractories in Lime Recovery Kilns
	- Chris Macey, RESCO Products, Inc.
	Energy Saving Refractory Products to Reduce Your Carbon Footprint -
	Garret Pair, Refratechnik North America, Inc.
8:30AM –	Session 12: Waste Water Treatment Advances
10:00AM	Session Chair: Barry Malmberg, NCASI
	A Review of Phosphorus Removal Technologies for Pulp-and-Paper Wastewater
	Treatment Plants – Heather Jennings, Probiotic Solutions
	Venturi Injection in Pulp Mills - Mike Spillner, Mazzei Injector Company, LLC
	Membrane BioReactor Treatment – Kraft Pulping Wastewater Experience -
	Andrew Hodgkinson, Jacobs Consultancy
8:30AM –	Session 13: Liquor Chemistry & Control ✓
10:00AM	Session Chair: Pasi H. Miikkulainen, Andritz
	Soap Separation - A New Option for Removal of NPEs - Karin Lindgren, RISE
	Bioeconomy (Former Innventia)
	The Solubility of Calcium Carbonate in Green Liquor Handling Systems - Alisha
	Giglio, University of Toronto
	Use of Direct Steam Injection to Control Black Liquor Temperature and Ensure
	Optimal Drop Size - Shawn Berg, Hydro-Thermal Corporation
10:00AM -	Break
10:30AM	
10:30AM –	Session 14: Bleaching Chemical
12:30PM	Session Chair: Ashok Ghosh, WestRock
	Are There Advantages to Using 50%- versus 10%- Strength Peroxide in Pulp
	Bleach Plants? - Peter W. Hart, WestRock
	Comparing Advanced Process Control Techniques For Control Of Chlorine
	Dioxide Plants In The Pulp And Paper Industry - Faizi Roy Ramjohn, ERCO
	Worldwide
	Singlet Oxygen Generated Onsite for Safely Augmenting or Replacing Existing
	Chlorine Bleaching Stages - Wayne Buschmann, Clean Chemistry, Inc.
	Economic Fundamentals of Ozone Bleaching - Alexis Métais, Xylem Inc.

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10:30AM -	Session 15: Combustion & Emission
12:00PM	Session Chair: John LaFond, Jansen Combustion & Boiler Tech. Inc.
Joint Session: Engineering, Power & Recovery,	The Density Change of Biomass During Combustion - Naz Orang, University of Toronto
Recaust, & Lime Kiln / Environmental	Reduction of Particulate and NO _x Emissions from Kraft Recovery Boilers Using Catalytic Filtration Technology - <i>Jim Wearing, Noram Engineering & Construction Ltd.</i>
	Factors Impacting CO and NO _x Emissions on Biomass-Fired Stoker Boilers - Marcel D. Berz, Jansen Combustion and Boiler Technologies, Inc.
10:30AM – 12:00PM	Session 16: Project Management Panel Discussion Moderator: Qiang Han, International Paper
	Panelists: David Mead, Independent Project Analysis (IPA) Scott Curry, CQ Strategy Ltd. Ryan Mangan, MEGI Engineering Inc. Billy Ours, Kiewit
10:30AM -	Session 17: Refractory Installation Panel Discussion
12:00PM	Moderator: J. Peter Gorog, Houghton Cascade Holdings, LLC
	Panelists: Tim Baker, JT Thorpe and Son Len Demos, Thorpe Canada Construction and Refractory Cody Riezorek, Thorpe Canada Construction and Refractory John Miskolczi, Thorpe Plant Services
10:30AM -	Session 18: Optical Properties, Stickies, and Strength Tutorial
12:00PM 10:30AM – 12:30PM	Session Chair: Carl J. Houtman, USDA Forest Products Laboratory Session 2: Torrefaction and Densification Technologies Session Chair: Sudhagar Mani, University of Georgia
	Torrefied Biomass - Status of Development, Market Requirements, Supply Chain Evaluation and Comparison - <i>Michael Wild, Wild &Partner, LLC</i>
	Integrated Biomass Torrefaction and Densification Plant: Process Modeling and Plant Economics - Sudhagar Mani, University of Georgia
	Licensing Torrefaction and Densification Technologies - Hiroshi Morihara, HM3 Energy
	High Moisture Pelleting Studies in a Pilot Scale Ring Die Pellet Mill with 1 ton/h Throughput - Jayashankar Tumuluru, Idaho National Laboratory (INL)
12:00PM – 1:20PM	2019 PEERS Tech Program Planning Meeting
12:00PM – 1:30PM	Lunch
12:30PM – 1:30PM	Biorefinery Committee

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1:30PM – 2:30PM	Fiber Recycling Committee	
1:30PM – 3:00PM	Session 19: Managing Mill Processes ✓	
1.307141 - 3.007141	Session Chair: Christopher E. Jackson, Nautilus Loss Control, LLC	
	The Sticky Behavior of Pulp and Paper Biosludge During Drying - Geanna Hovey,	
	University of Toronto	
	Most Typical Failures in Kraft Recovery Boilers-A Statistical Approach - Keijo	
	Salmenoja, ANDRITZ, Oy	
	Drones for Internal Inspections & Beyond - Christian Smith, <i>Interactive Aerial</i> ,	
	Inc.	
1:30PM - 3:00PM	Session 20: Oxygen Delignification	
	Session Chair: Hasan Jameel, North Carolina State University	
	More Efficient Oxygen Delignification - Philip Hoekstra, Buckman Laboratories	
	Oxygen Delignification Performance, Caustic Soda vs. Unoxidized White Liquor -	
	A Mill Study - Bruno Goncalves, Spark Consultoria	
	,	
	Gas Dispersion in the Oxygen Delignification Process - Jari Käyhkö, South-Eastern	
	Finland University of Applied Sciences, Fiber Laboratory	
1:30PM – 3:30PM	Session 21: Improved Kiln Operation & Efficiency I ✓	
	Session Chair: Wei Ren, FPInnovations	
	From Physical Modelling to CFD: -20 Years of Development in Kiln Modelling Techniques - <i>Martin Beddows, KFS</i>	
	realinques marem beadows, Nr 5	
	Influence of CFD on Lime Sludge Kiln Burner Design - Adriano Greco, FCT	
	Combustion	
	West Best to a Felia line Kilos Control to a Milant	
	Wood Powder as Fuel in Lime Kilns – Carsten Jensen, Valmet	
	Alignment Methodology to Increase Accuracy – Tom Zhang, Industrial Kiln &	
	Dryer Group	
1:30PM - 3:00PM	IBBC Session 3: Biorefinery Infrastructure	
	Session Chair: Scott Curry, CQ Strategy Ltd.	
	Failure Analysis of Wood Gasifier Vessels - James Keiser, Oak Ridge National	
	Laboratory	
	Valmet's "BIO" Efforts – Jean-Pierre Bousquet, Valmet	
	Techno-Economic Assessment of Pulp Mill Infrastructure Integration with the	
	Alcohol-to-Jet Pathway for Aviation Fuel Production - Scott Geleynse,	
2 00014 2 22 53	Washington State University	
3:00PM – 3:30 PM	Break	

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3:30PM - 5:00PM	Session 22: Chip Supply/Chip Quality Panel Discussion
3.30FIVI - 3:00FIVI	Moderator: Alastair Twaddle, International Paper
	Panelists:
	William S. Fuller, FRM Consulting
	Steve Jones, Peterson Pacific
	Joel Swanton, F2M
	James Erickson, Kapstone
3:30PM - 5:00PM	Session 23: Automation Panel Discussion
3.30FIVI - 3.00FIVI	Moderator: Ben Bunner, Andritz
	Panelists:
	Chris Sousa , Andritz
	Ben Janvier, Enero Solutions
3:30PM - 5:00PM	Session 24: Detrashing Panel Discussion ✓
3.30FIVI - 3.00FIVI	Moderator: Ryan P. Henry, Green Bay Packaging
	Panelists:
	Neale W. Fetterly, Kadant Black Clawson
	Ryan P. Henry, Green Bay Packaging
	Nolan Seelye, Voith
3:30PM - 5:00PM	Session 25: Environmental Regulatory Developments Impacting the Industry✓
3.301 141 3.001 141	Session Chair: Daniel A. Curry, TRC Environmental Corporation
	Carbon Activity in the Northwest – Implications for the Forest Products Industry -
	Barry Malmberg, NCASI
	Oregon Air Toxics Program "Cleaner Air Oregon" - Katheryn VanNatta,
	NorthWest Pulp and Paper Association
	Effluent and the Environment: Patterns from an Integrated, Long-term Study in
	Effluent Receiving Waters - Camille Flinders , NCASI
3:30PM - 5:30PM	Session 26: Processing Conditions and How They Affect Materials in Pulp &
	Paper
	Session Chair: Katie Day, Sandvik
	Corrosion and Scale Problems in Recovery and Power Boilers in Pulp and Paper
	Operations - Edward (Ted) Beardwood, Consultant at Solenis LLC
	RoHS: 10 Years Later – Process Control Equipment Corrosion Issues Remain -
	Christopher Muller, Purafil, Inc.
	Corrosion Resistant FRP Equipment for Pulp and Paper - Kevin Lambrych,
	Ashland
	In-Service Nonmetallic Inspections and Reliability - Michael Yee, RTConsults, PLLC
3:30PM - 5:00PM	IBBC Session 4: Rapid Fire Showcase
	Session Chair: Jean-Pierre Bousquet, Valmet
	A New Process for Catalytic Fractionation of Organo-solv Lignin to Biofuels and
	High-Value Added Chemicals - Joseph Molle, University of Wisconsin-Stevens
	Point

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	Wood Quality and Pulpability of Eucalyptus Woods Affected by Physiological Disturbance - Juliana Marangon Jardim, North Carolina State University
	Fractionation of Lignin Recovered from Hot-Water Extracts of Angiosperms and its Application in Synthesis of Lignin-Based Products - <i>Aditi Nagardeolekar, SUNY-ESF</i>
5:00PM - 6:30PM	Reception & IBBC Student Poster Session & Competition
	A New Process for Catalytic Fractionation of Organo-solv Lignin to Biofuels and High-Value Added Chemicals - <i>Joseph Molle, University of Wisconsin-Stevens Point</i>
	Wood Quality and Pulpability of Eucalyptus Woods Affected by Physiological Disturbance - Juliana Marangon Jardim, North Carolina State University
	Fractionation of Lignin Recovered from Hot-Water Extracts of Angiosperms and its Application in Synthesis of Lignin-Based Products - <i>Aditi Nagardeolekar, SUNY-ESF</i>
6:30PM - 7:30PM	Young Professionals Mixer
7:00PM – 9:00PM	IBBC Conference Dinner**
	Wednesday, October 31, 2018
6:45AM – 8:30AM	Hot Topics Breakfast II ***
6.SUAIVI	Increasing Kiln Reliability Moderator: Glenn M. Hanson III, Industrial Kiln & Dryer Group
	Reduction Efficiency Measurements Moderator: Thanh Trung, FITNIR Analyzers Inc.
	Improving Kraft Pulping/Pulp Yield Moderator: Hasan Jameel, North Carolina State University
	O ₂ Delignification Optimization/Benchmarking Moderator: <i>Tom Mullen, Process Innovations</i>
	Keeping Composure in Difficult Situations Moderator: Heather Jennings, Probiotic Solutions
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	Value Add Products From lignin Moderator: R. Daniel <i>Haynes, AkzoNobel Specialty Chemicals</i>

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7:00AM –	Speaker Breakfast
8:15AM	
8:30AM	Session 27: Material Handling Panel Discussion ✓
10:00AM	Moderator:
8:30AM – 10:00AM	Session 28: Stainless Steels and Specialty Alloys for Pulp, Paper and Biomass Conversion -18 Years Later Panel Discussion ✓ Moderator: Matthew L. Tunnicliffe, FPInnovations
	Panelists: Andy Garner, Consultant David C. Bennett, Consultant
	Doug L. Singbeil, FPInnovations
8:30AM –	Session 29: TAPPI TIPS Panel Discussion
10:00AM	Moderator: Tom Mullen, Process Innovations
	Panelist: Priscila Briggs, TAPPI Ashok Ghosh, WestRock
0.20484	Margaret Gorog, International Paper
8:30AM – 10:00AM	Session 30: Bi-Product Sustainability Session Chair: Jack Porter, FITNIR Analyzers, Inc.
Joint Session: Engineering, Power & Recovery,	Reuse of CO ₂ in Pulp Mills - <i>Katja Kuparinen, Lapeenranta University of Technology</i>
Recaust, & Lime Kiln / Sustainability	Methanol, From Waste Byproduct to Valuable Fuel – Randy Stern, Valmet
	What Happens When the Fiber Disappears? - Bill Nichols, KBR
8:30AM – 10:00AM	Session 31: Improved Kiln Operation & Efficiency II Session Chair: Subra Arasakesari, International Paper
	Increasing Kiln Reliability Utilizing Modern Measurement Tools & Analysis - Glenn M. Hanson III, Industrial Kiln & Dryer Group
	Proactive Ring Removal in the Lime Recovery Kilns - Jim Conover, Mole Master Services Corporation
	Lime Kiln Control Design for Perpetual Performance and Profit - Michael Simpson, Emerson
8:30AM -	IBBC Session 5: Lignin to Whatever
10:00AM	Session Chair Peter Axegård, C-Green Technology AB
	Unlocking the Potential of Industrial Grade Lignin for Enhancing Sustainability and Performance of the Polyurethane Insulation Foam – <i>Pratheep Kumar Annamalai, The University of Queensland</i>

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	Fractionation of Lignin Recovered from Hot-Water Extracts of Angiosperms and
	its Applications in Synthesis of Lignin-Based Products – Aditi Nagardeolekar,
	SUNY-ESF
	Selecting Solvents for Lignin Value Prior to Pulping - Thomas T. Kwok, Georgia
	Institute of Technology
10:00AM -	Break
10:30AM	
10:30AM -	Session 32: Improving Operations Through Simulations
12:00PM	Session Chair: Andrew K. Jones, International Paper
	Dynamic Modelling - Production of Softwood and Hardwood Pulp in Campaigns -
	Johan Wallinder, RISE Bioeconomy (former Innventia)
	Controlling Mill Power Plant Parasitic Costs While Optimizing Productivity, Safety
	& Environmental Compliance via Tramp Air control - Patrick Fitzgerald, High
	Temperature Technologies
	Development and Application of an Object-Oriented Simulation Tool for Kraft
	Recovery Processes - Michael Erbes, Enginomix, LLC
10:30AM -	Session 33: Pulping Non-Process Elements
12:00PM	Session Chair: Sabrina J. Burkhardt, Sustainable Fiber Technologies
	Chemical and NPE Balances when using Oxidized White Liquor in the Bleach
	Plant Extraction Stage - Tom Mullen, Process Innovations
	Digester Scale Control: Fundamentals and Best Practices for Responding to
	Process Variations - Michael Wang, Solenis, LLC
	A Davison of Conseq Linux Cools Formation Detail M. Ulant West Deale
10:30AM -	A Review of Green Liquor Scale Formation - Peter W. Hart, WestRock Session 34: Current Evaporator Issues and Technology Panel Discussion
12:00PM	Moderator: Christopher L. Verrill, International Paper
12.001 141	Panelists:
	Niko DiMartini, University of Toronto
	Andrew Anacker, Lundberg
	Randy Stern, Valmet
	Jarmo Kaila, Andritz
10:30AM -	Session 35: Reliability Panel Discussion
12:00PM	Moderator: Ron Lansing, M&M Engineering Associates
	Panelists:
	Carson Blocker, Nippon DynaWave Packaging
	Alex Fillo, International Paper
	Cassie Nail, Resolute
10:30AM -	KC Pyle, Georgia Pacific Session 36: Energy Optimization ✓
10:30AM – 12:00PM	Session Chair: Danny S. Tandra, Clyde Bergemann Power Group
12.007101	Session chair. Dunny S. Tunara, Ciyae Dergemann Fower Group

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	Paper Mill Power Plant Optimization-Realizing the Value of Low Pressure Steam - Ricardo Santos, WestRock
	Kraft Pulping Warm and Hot Water System Strategies - James Cantrell, Jacobs Engineering
	Optimization of Turbine Governors Performance for Improved Plant Operation - Ben Janvier, Enero Solutions
10:30AM -	IBBC Session 6: Value Added Products Part I
12:00PM	Session Chair: Adriaan van Heiningen, University of Maine
12.00FIVI	
	Turning Bio-Sludge into Bio-Carbon Through Zero-Energy Hydrothermal Carbonization - <i>Peter Axegård, C-Green AB</i>
	Alternative Pulping Process for Paper and High Value-Added Biochemical Production - <i>Ali Manesh, American Science & Technology Co.</i>
	Mechanical Pulp with Added Value Products and Lower COD - Oleg Shagaev, Andritz AG
12:00PM - 1:00PM	18 PEERS Conference Critique Committee Meeting*
12:00PM	PEERS Concludes
1:30PM – 3:00PM	Corrosion & Materials Engineering Steering Committee Meeting
1:30PM - 3:00PM	IBBC Session 7: Value Added Products Part 2
	Session Chair: Jean-Pierre Bousquet, Valmet
	Electrochemical Salt Split for Mill Sodium Sulfur Balance Control – Kalle Pelin, AkzoNobel Pulp and Performance Chemicals
	Imagine Chemistry-An Open Innovation Approach to Sustainability Across the Manufacturing Process - R. <i>Daniel Haynes, AkzoNobel Specialty Chemicals</i>
	Production of Sulfuric Acid from the Incineration of Pulp Mill Non-Condensable Gases-A Biorefinery Concept - <i>Naveen Chenna, Valmet Technologies, OY</i>
3:00PM - 3:30PM	Break
3:30PM - 5:00PM	IBBC Session 8: NanoTechnology
	Session Chair: R. Daniel Haynes, AkzoNobel Specialty Chemicals
	Nanocellulose: A Breakthrough Technology for the Bioeconomy - Mikhail lakovlev,
	American Process
	Effects of Fiber Morphological Characteristics on Selected Properties of
5:00	Effects of Fiber Morphological Characteristics on Selected Properties of Fiberboard - Babak Mirzaei, Collins Company IBBC Concludes

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