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Growing the Future



Recycled
Paperboard
Technical
Association

Co-located with

Control Systems 2012

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NTS I: Coating New Technology Showcase

Moderator: **Gregg A. Reed**, *Georgia-Pacific Chemicals*

NTS I-1	David J.E. Vidal , <i>FPIInnovations</i>	Performance and Cost Optimization of Coating Formulations using a Design-of-experiment Approach
NTS I-2	Mike Cooley , <i>Beta LaserMike</i>	Non-Contact, Laser-Based Technology for Accurately Measuring the Length and Speed of Product in Web Coating and Lamination (Presentation)
NTS I-3	Rick Cazenave , <i>Celanese</i>	APE-Free Emulsions for Paper Coatings
NTS I-4	Martin Schmid , <i>Voith Paper Inc.</i>	SpeedRod M - A new generation of metering systems for film presses
NTS I-5	Vetrivel Dhagumudi , <i>Layne Christensen Company</i>	Wastewater Treatment with MBR & RO for Pulp & Paper Mills
NTS I-6	Andrew Denasiewicz , <i>Siemens Industry Inc.</i>	Opportunities in Electrical Energy Saving in Pulp and Paper Mills
NTS I-7	Ross Elliot , <i>Tecumseth Filtration Inc.</i>	Studies Using Microfilter Technology Reveal Unnecessary Fiber, Energy and Water Losses
NTS I-8	Pedro Casanova , <i>LUDECA Inc.</i>	Roll Profile and Straightness

		Measurement
NTS I-9	David Kevin McCall , <i>SKF Reliability Systems</i>	Effective Condition Monitoring of Slow-Speed Mechanical Assets
C3: Coating Best Papers I Moderator: Femi O. Kotoye , <i>Styron LLC</i>		
C 3-1	Janet S. Preston, John C. Husband , <i>IMERYS Minerals Ltd.</i>	Binder Depletion During the Coating Process and Its Influence on Coating Strength (Presentation)
C 3-2	Chris L. Lazaroff , <i>Celanese</i> ; Rajeev Farwaha , <i>Celanese - Emulsion Polymers</i>	Recent Advancements in Vinyl Acetate Ethylene Copolymers for Use in Paperboard Coatings (Presentation)
C 3-3	Hakan B. Grubb , <i>Xylophane AB</i>	Renewable Xylan-based Barrier Coating for Paper and Board (Presentation)
M3: Future Products for the Pulp and Paper Industry Moderator: Harry Seamans , <i>Bioenergy Deployment Consortium</i>		
M 3-1	Michael A. Lake , <i>Liquid Lignin Company</i>	Lignin - To Infinity and Beyond
M 3-2	Harry T. Cullinan, Jr. , <i>Auburn University</i>	Future Products for the Pulp and Paper Industry
PB1: Inside & Outside of the Box Kick-Off Moderator: Jeffrey R. Reese , <i>International Paper</i>		
PB 1	Brian Peterson , <i>Containerboard Team Leader</i> ; Paul Duncan , <i>Mill Manager</i>	The Turnaround at Longview
PQ1: Advancements in Stock System Additives I Moderator: Michael Von Grumbkow , <i>Voith Paper</i>		
PQ 1-1	Paul Krochak , <i>Innventia AB</i>	Investigation of Retention Aid Polymer Degradation on a Pilot Scale Flow Loop

		(Presentation)
PQ 1-2	Janne Kataja-Aho , <i>VTT Technical Research Centre of Finland</i>	The Effect of Sequential Polymer Addition on Wet and Dry Web Mechanical Characteristics - Laboratory and Semi-Pilot Studies (Presentation)
PQ 1-3	Jorni P. Matula , <i>Wetland Technologies Ltd.</i>	Paper and Board Mill Profits from Mixing Starch and Filler Simultaneously Close to the Headbox (Presentation)

C4: Coating Best Papers II

Moderator: **Steven Bloembergen**, *Ecosynthetix Inc.*

C 4-1	Peter Dahlvik , <i>OMYA International AG</i>	First Commercial Curtain Coater Application for Wood-Free Paper Grades (Presentation)
C 4-2	Brian J. Ninness , <i>Styron LLC</i> ; Pekka J. Salminen , <i>Styron Europe GmbH</i> ; Don A. Ventresca , Gregory W. Welsch , <i>Styron LLC</i>	Replacement of Air Knife with Curtain Coating - Impact on End-Use Properties of Double-Coated Paperboard
C 4-3	Etienne Lazarus , <i>Styron Deutschland Anlagengesellschaft mbH</i> ; Martti Toivakka , Parvez Alam , <i>Abo Akademi University</i> ; Pekka J. Salminen , <i>Styron Europe GmbH</i>	On the Mechanisms of Wet and Dry Strength of Paper Coatings - Part 1 - Experimental Studies (Presentation)

C5: Fundamentals of Coating Strength and New Test Methods

Moderator: **Gregory W. Welsch**, *Styron LLC*

C 5-1	Parvez Alam , Martti Toivakka , <i>Abo Akademi University</i> ; Etienne Lazarus , <i>Styron Deutschland Anlagengesellschaft mbH</i> ; Pekka J. Salminen , <i>Styron Europe GmbH</i>	On the Mechanisms of Wet and Dry Strength of Paper Coatings - Part 2 - Modeling and Simulation (Presentation)
C 5-2	Paul D. Fleming, III , <i>Western Michigan University</i>	New Observer Trials for Whiteness Formulas

		(Presentation)
C 5-3	Roger C. Bollstrom , <i>ABO Akademi University</i> ; Carl-Eric Wilen , Carl-Johan Wikman , Daniel Tobjörk , Jawad Sarfraz , Johan Bobacka , Martti Toivakka , Mika Lindén , Peter Dolietis , Ronald Österbacka , Sari Viljanen , Tommi Remonen , <i>Abo Akademi University</i> ; Pekka J. Salminen , <i>Styron Europe GmbH</i>	Roll to Roll Printed Electronics on Paper - INVITED SPEAKER (Presentation)
C 5-4	Catherine Ridgway , <i>OMYA DEVELOPMENT AG</i> ; Patrick A.C. Gane , <i>Omya Development AG</i>	A Laboratory Simulation of Tail Edge Pick (Presentation)

M5: It's Never Too Early - or - Too Late to Become a Safety Leader (YP)

M 5-1	Selina Hall , <i>Domtar</i>	A Good Listener is Key
M 5-2	Vince Somody , <i>Domtar</i>	Success in Safety through Safety Leadership Development
M 5-3	Matthew Kanneberg , <i>RockTenn</i>	Caring Leadership - Commitment to Excellence

PB3: Optimizing Containerboard Pressing - Panel Discussion

Moderator: **Richard A. Reese**, *Dick Reese and Associates Inc.*

PB 3-1	Frank X. Swietlik , <i>Metso Paper</i>	Improving Wet Press Operations with Tune-Ups and Targeted Rebuilds
PB 3-2	David C. Burton , <i>AstenJohnson</i>	Press Optimization Observations
PB 3-3	Steve Spencer , <i>Albany International</i>	Nip Venting and Fabric/Belt Interaction
PB 3-4	Jerry Vandoros , <i>Kadant</i>	Advances in Press Roll Dewatering (Presentation)

PQ3: Fluid Mechanics of Fibrous and Nano-fibrous Suspensions

Moderator: **Bandaru V. Ramarao**, *State University of New York*

PQ 3-1	Juha Salmela , Ari Jasberg , Jarmo Kouko , Veli-Matti	Processability of Microfibrillated
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	Luukkainen , <i>VTT Technical Research Centre of Finland</i>	Cellulose (Presentation)
PQ 3-2	Juha Salmela, Antti Koponen, Johanna Liukkonen, Sanna Haavisto , <i>VTT Technical Research Centre of Finland</i>	Optimization of Paper Machine Initial Dewatering (Presentation)
PQ 3-3	Jukka Muhonen, Ari Puurtinen , <i>Metso Paper</i>	Experiences of New Shoe and Blade Type Initial Dewatering on Water Removal Efficiency and on Paper Quality on a Full Scale Production Machine (Presentation)
PQ 3-4	Bandaru V. Ramarao , <i>State University of New York</i>	Characterizing the Drainage and Filtration of Pulp and Microfibrillar Suspensions (Presentation)

C6: Best Student Papers
Moderator: **James P. Niemiec**, *NewPage*

C 6-1	Jae Young Shin , <i>Western Michigan University</i>	Rheological Properties of Starch Latex Dispersions and Starch Latex-containing Coating Colors (Presentation)
C 6-2	Ting Chen, David A. Smith, Margaret K. Joyce, Paul D. Fleming, III , <i>Western Michigan University</i>	Influencing the Inflections in Quickset Ink Setting Profiles to Improve Sheet-fed Print Quality & Efficiency (Presentation)
C 6-3	Douglas W. Bousfield , <i>University of Maine</i> ; Nick G. Triantafillopoulos , <i>OMNOVA Solutions Inc.</i>	Atomic Force Microscope Techniques to Measure Latex Properties and Correlation to Coating Strength

PB4: Strength Additives - Lighter, Stronger, Faster
Moderator: **Darren K. Swales**, *Kemira Chemicals*

PB 4-1	Rosy M. Covarrubias, Daniel E. Glover , <i>Buckman</i>	Next Generation of Dry Strength Additives for Packaging Grades
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		(Presentation)
PB 4-2	Michael R. St. John , <i>Nalco Company</i>	Enhancement of Dry Strength in High Performance Linerboard Using a Dual Additive Approach (Presentation)
PB 4-3	Kristian Erik Salminen , <i>VTT Technical Research Centre of Finland</i>	The Effects of Guar Gum on Wet Web Runnability - Laboratory and Pilot-Scale Studies (Presentation)

PQ4: Fundamental Analysis of Fluid Mechanics for Forming

Moderator: **Claes Holmqvist**, *JohnsonFolds*

PQ 4-1	Bandaru V. Ramarao , <i>State University of New York</i> ; Kapil M. Singh , <i>International Paper</i>	Numerical Simulation of Sheet Forming in Paper Machines (Presentation)
PQ 4-2	John Xu , <i>AstenJohnson</i>	The Effect of Non-woven Base on Press Felt Properties and Dewatering (Presentation)

NTS II: Papermakers New Technology Showcase

Moderator: **Marc Foulger**, *GL&V*

NTS II-1	Fernando Cabrera , <i>FCPAPEL LLC</i>	New Forming Concept - The Green Approach to the Wet End Zone
NTS II-2	Michael Molter , <i>BTG Americas</i>	New Inline Wet End Brightness and Fluorescent Measurement
NTS II-3	Michael J. Ancona , <i>Nalco</i>	Hybrid Polymers Performance That Helps Papermakers Achieve Results
NTS II-4	Michael C. Postle, P.E. , <i>SEI Group</i>	Paper Machine Hood Supply Optimization Using Computational Fluid Dynamics

C8: Advances in Coating and Drying Technology

Moderator: **Prakash B. Malla**, *Thiele Kaolin Company*

C 8-1	Martin Schmid , <i>Voith Paper Inc.</i> ; Martin F. Kustermann , <i>Voith Paper GmbH & Co. KG</i>	Curtain Coater for Board and Packaging (Presentation)
C 8-2	Anne Rutanen , <i>CP Kelco Oy</i> ; Martti Toivakka , <i>Abo Akademi University</i>	Changes in Solid Particle Fraction of Coating Colors in High Speed Blade Coating (Presentation)
C 8-3	Geert LA Dumortier , Anthony Wils , <i>Bekaert NCD</i>	Best Practices for Coat Drying (Presentation)

PB5: Mineral Oil Migration From Food Packaging Grades - Panel Discussion

Moderator: **Frank J. Sutman**, *Ashland Water Technologies*

PB 5	Anne Goldsmith , <i>Calumet Specialty Lubricants</i> ; Paul Noe , <i>AFPA</i> ; Deju Koziol , Norm Harbin , <i>FlintGroup</i>	Mineral Oil Migration from Packaging into Food
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PQ5: Optimizing Your Fiber Through Effective Refiner Control

Moderator: **Jonathan C. Kerr**, *Miami University*

PQ 5-1	Nina Rajabinasab , Jens Heymer , Mark Martinez , <i>University of British Columbia</i>	Experimental Study of No-load Power in Low Consistency Refiners (Presentation)
PQ 5-2	Ajit Kumar Ghosh, PhD , <i>Visy Pulp and Paper Tumut</i>	Optimal Fibre Development and Energy Saving During Refining of High Kappa Softwood Chemical Pulp for Kraft Linerboard Products in a Fully Closed Mill (Presentation)
PQ 5-3	Christopher L. Demler , <i>Kadant Black Clawson Inc.</i>	Refining Case Study - Using Improved Refiner Control to Increase Pulp Quality and Paper Machine Performance (Presentation)

M8/P6: Superintendent's Roundtable and Papermakers Roundtable (YP)

Moderators: **Jeffrey R. Reese**, *International Paper*; **John A. Neun**, *Albany International*; **Paul Fredrickson**, *AstenJohnson*

M 8-P 6	Doug Howard , <i>Boise Paper</i>	A Practical Papermakers Guide to Defect Troubleshooting
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C10: Advanced Coating Materials

Moderator: **Rajan R. Iyer**, *IMERYS*

C 10-1	Graham O'Neill , <i>IMERYS Minerals Ltd.</i>	A Barrier Coating Approach to Counter Oil Migration (Presentation)
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C 10-2	Douglas W. Bousfield , <i>University of Maine</i>	The Coating of Nanofibrillated Cellulose Onto Paper Using Flooded and Metered Size Press Methods (Presentation)
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C 10-3	Joseph A. Schlinkert , <i>Color Resolutions Intl. LLC</i>	Advances in Raw Materials Skid Resistant Overprints Offering Abrasion Resistance (Presentation)
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PB7: Forming Innovations

Moderators: **Scott B. Pantaleo**, *International Paper*; **Jimmy H. Jong**, *FPIInnovations (Paprican)*

PB 7-1	Jay A. Shands , <i>Johnson Foils</i>	Fourdrinier Tables with Adjustable Drainage Elements (Presentation)
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PB 7-2	Juan Carlos Cecchini , <i>Metso Paper Inc.</i> ; Ari Puurtinen , <i>Metso Paper</i>	Different Approaches on Fourdrinier Dewatering - What is the Most Suitable Strategy? (Presentation)
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PB 7-3	Thomas R. Kast , <i>Voith Paper</i>	Improved Efficiency with the DuoFormer D II (Presentation)
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PQ7: Enhancing Fiber Quality and Control

Moderator: **Leslie McClain**, *Imerys*

PQ 7-1	Harald G. Grossmann , <i>Dresden University of Technology</i>	ETMP - A New Approach in Mechanical
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		Pulp Manufacture
PQ 7-2	Ian Lifshitz , <i>Asia Pulp & Paper</i>	Advancements in Papermaking - New Technologies and Processes that are Revolutionizing the Industry (Presentation)
PQ 7-3	Sri Nugroho Marsoem , <i>Gadjah Mada University</i>	Maintaining Environmental Quality - Fiber Characterization as a Tool for Verifying Pulp Fiber Composition (Presentation)
PQ 7-4	Mark J. Zempel , <i>Eka Chemicals Inc.</i>	Challenges and Demands Towards Higher Filler Levels in White Top Liner and Fine Paper

C11: Growing Trends in Calendering

Moderator: **William J. Frawley**,

C 11-1	Wolfgang M. Bauer, Johannes Kritzinger , <i>Graz University of Technology</i>	A Study of the Influence of Pre- and Post-Calendering on the Structural Parameters of a Coating Layer Applied with a Curtain Coater (Presentation)
C 11-2	Henri Vaittinen , <i>Metso Paper</i>	Metal Belt Calendering of Uncoated Fine Paper - Pilot and Mill Trial Results (Presentation)

M10: Mill Manager's Roundtable

Moderator: **Bill Edwards**, *Domtar*

M 10-1	Tom Detwiler , <i>Domtar</i>	Sustainability - The Broader Goal
M 10-2	Paul Duncan , <i>Longview Fibre</i>	Growing Talent for the Future
M 10-3	Jim Gresham , <i>MeadWestvaco</i>	Growing the Future - MWV Evadale Mill
M 10-4	Bob Grygotis , <i>Domtar</i>	Growing a Sustainable Future by Using Influence

PB8: Papermaking Success Stories

Moderator: **Philip H. Wells**, *Wells Enterprises Inc.*

PB 8-1	Bruce Warrick , <i>Longview Fibre</i>	Training Success Story - Longview Fibre Paper and Packaging, Inc. (Presentation)
PB 8-2	Douglas F. Sweet, P.E. , <i>Doug Sweet & Associates</i>	Making it with Less (Equipment, Energy, Water and Other Stuff) (Presentation)

PQ8: Deposit Control

Moderator: **Rosy M. Covarrubias**, *Buckman*

PQ 8-1	Mari Zabihian , <i>Kemira Oyj</i> ; Christopher M. Lewis , <i>Kemira Chemicals Inc.</i>	The Management of Hydrophobic Particle Size for Improved Paper Machine Wet End Stability
PQ 8-2	R. Daniel Haynes, Sr. , <i>EKA Chemicals Inc.</i>	How Management of Mill Process Water Impacts Colloidal Stability (Presentation)

PB9: Packaging Paper Machine Innovations

Moderator: **Pekka Korman**, *Deublin Steam Systems*

PB 9-1	Brian Atherr , <i>Ashland Hercules Water Technologies</i>	Optimizing Wet End Chemistry for Step-Change Performance in Recycled Containerboard Systems (Presentation)
PB 9-2	Kenneth Wiik , <i>EV Group Oy</i>	Excellent Runnability and Ropeless Tail Threading by EV Drying Section Optimization in Kraft Liner Mill in Austria (Presentation)
PB 9-3	Thomas E. Vaughn , <i>Kadant Solutions</i>	Utilizing High Pressure Modular Cleaning to Maximize Sheet Quality and Coating Efficiency (Presentation)

PQ9: Advances in Microbiological Control

Moderator: **Linda R. Robertson**, *International Microbial Associates Inc.*

PQ 9-1	Jani Kiuru, Atsushi Tanaka , <i>VTT Technical Research Centre of Finland</i>	Novel Method for Creating Biocides from Process Waters (Presentation)
PQ 9-2	Michael J. Ancona , <i>Nalco Company</i>	The Use of On-line Monitoring Tools and Advanced Analytical Techniques to Optimize Biocontrol Treatment Strategies for Papermaking Systems (Presentation)

Poster Session: PaperCon and Control Systems

Moderator: **Nancy Ross-Sutherland**, *USDA Forest Products Laboratory*

POSTER 1	Su Xiongbo, Hou Shunli, Yang Jun , <i>College of Papermaking Engineering, Shaanxi University of Science & Technology</i>	Mechanical Property Analysis and Optimal Design of the Frame of Papermachine Dry Section Based on Finite Element Method
POSTER 2	Frederic Parent , <i>FPIInnovations</i> ; Bob Rourke , <i>Precision Roll Grinder</i>	The Negative Impact of Calendar Barring on Web Properties and Strength; or Why Is It So Important To Grind Round Rolls
POSTER 3	Yuping Luo, Harold Goldsberry , <i>Kemira Chemicals</i>	New Concepts for Polyamido-amine-epichlorohydrin Resin
POSTER 4	Casey Kick, Dr. Margaret Joyce, Dr. Paul Fleming, III , <i>Department of Paper Engineering, Chemical Engineering and Imaging - Western Michigan University</i>	Studying the Coating Property Influences on the Recyclability of LEP Papers

*** BEGINNING OF CONTROL SYSTEMS SESSIONS ***

CS 1: Web Imaging & Inspection

Moderator: **Risto Ritala**, *Tampere University of Technology*

CS 1-1	Markku Ohenoja, Kauko Leiviska , <i>University of Oulu</i>	Potential of Imaging Measurements in Paper Machine Control (Presentation)
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CS 1-2	Jukka Pekka Raunio , <i>Tampere University of Technology</i> ; Mikko Mäkinen , <i>Kemira, Inc.</i> ; Risto Ritala , <i>Tampere University of Technology</i>	Variability of Crepe Frequency in Tissue Paper; Relationship To Basis Weight Profiles (Presentation)
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CS 2: Millwide Applications
Moderator: **Ian A. Journeaux**, *NewPage*

CS 2-1	Jarmo T. Kahala , <i>Savcor Forest Oy</i> ; Pasi Niemeläinen , <i>Savcor Forest Inc.</i> ; Mika Suojärvi , <i>Savcor Forest Oy</i>	Process State Dependent Calculations (Presentation)
CS 2-2	Chris McAnarney , <i>ExperTune Inc.</i>	Energy Savings with Process Control (Presentation)
CS 2-3	Michel Ruel , <i>BBA-Top Control Inc.</i>	Start-Ups Do Not Have to be Difficult (Presentation)

CS 3: Paper Machine Optimization and Grade Change
Moderator: **Johan U. Backstrom**, *Honeywell Process Solutions*

CS 3-1	Stephen Chu , Johan U. Backstrom , Joyce Choi , Michael G. Forbes , <i>Honeywell Process Solutions</i>	Automatic Nonlinear Grade Change Control for Paper Machines (Presentation)
CS 3-2	Aino Ropponen , Risto Ritala , <i>Tampere University of Technology</i>	Operational Optimization of Flow Management in Papermaking (Presentation)

CS 4: Paper Machine CD Applications
Moderator: **Kerry D. Figiel**, *International Paper*

CS 4-1	Danlei Chu , Cristian Gheorghe, P.E. , <i>Honeywell Process Solutions</i>	Closed-loop Alignment Identification with Adaptive Probing Signal Design (Presentation)
CS 4-2	Shih-Chin Chen , Rambod Naimimohasses , <i>ABB Inc.</i> ; Andreas Zehnpfund , <i>ABB Ltd.</i>	Improving Reel-Building with Multivariable CD Control (Presentation)

CS 4-3	Dave W. Lang, Calvin Fu , <i>Metso Automation, Toronto</i>	Variable Speed Scanning - A Fundamentally Better Way to Scan
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CS 5: Sheet Quality Measurements

Moderator: **Alf Isaksson**, *ABB AB*

CS 5-1	Dave W. Lang, Piotr Wasowski , <i>Metso Automation, Toronto</i>	Experiences with Online Measurement of Tissue Weight Using Infrared Technology
CS 5-2	Reena Meijer Drees, Frank M. Haran, Keith G. Lantz, Ross MacHattie, Sebastien Tixier , <i>Honeywell Process Solutions</i>	IR vs Nuclear Fiber Weight Measurement - Field Trial Results on Tissue (Presentation)
CS 5-3	Jussi Graeffe, Marko Toskala , <i>Metso Automation</i>	New Online Porosity Sensor for Paper Industry

CS 6: Control Systems-New Technology Showcase

Moderator: **Keith R. Masters**, *ABB Inc.*

CS 6-1	Mikko Ruuska, Brian F. Hayes , <i>ISRA VISION PARSYTEC AG</i>	Proactive Camera Systems - Eliminating Wet End Picking and Edge Cut Issues with On-Line Disturbance Detection
CS 6-2	Devin P. Cole, Gregory R. Fralic , <i>Metso</i>	Improved Performance Management Through Automated Reporting and Electronic Notification
CS 6-3	Luca Canali, Ing. , <i>Cristini Microwave Diagnostic Systems</i> ; Giovanni Cristini , <i>Cristini Group</i> ; John Feola , <i>Cristini North America</i>	Paper Machine Optimization through Closed Loop Monitoring of Paper Machine Clothing
CS 6-4	Les Frackowiak , <i>Industrial Video Solutions</i>	Reliable On-Line Measurement of Paper Formation

CS 7: Pulp Mill Measurements

Moderator: **Bruce J. Allison**, *FPInnovations*

CS 7-1	Hector J. Galicia, Jin Wang , <i>Auburn University</i> ; Q. Peter He , <i>Tuskegee University</i>	Adaptive Kappa Number Prediction via Reduced-Order Dynamic PLS Soft Sensor for the Control of a Continuous Kamyrdigester
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		(Presentation)
CS 7-2	Thanh Trung , <i>FITNIR Analyzers Inc.</i> ; Bruce Allison , <i>FPIInnovations</i>	Advanced On-Line Sensor for Pulp Mill Control
CS 7-3	Sebastien Tixier , Michael T. Brown , Ted Jasinski , Ulysse Dos Santos , <i>Honeywell Process Solutions</i>	On-Line Cyclic Voltammetry Sensor for the Continuous Measurement of TTA, EA and AA (Presentation)
CS 7-4	Manne Tervaskanto , Antti Yli-Korpela , Enso Ikonen , Olli Timonen , <i>University of Oulu</i>	Study of Consistency Modeling and Control in Chemical and Mechanical Pulping Processes (Presentation)

CS 8: Pulp Mill Control Applications

Moderator: **Seyhan Nuyan**, *Metso Automation*

CS 8-1	Jeff M. Butler , <i>Metso</i>	Causticizing Process Optimization - Sustained Benefits from Causticizing Advanced Process Control
CS 8-2	Antti Yli-Korpela , <i>University of Oulu</i> ; Olli Timonen , Sampo Luukkainen , <i>Stora Enso Pulp Competence Centre</i> ; Enso Ikonen , Manne Tervaskanto , <i>University of Oulu</i>	Identification of Runnability Failures in Continuous Cooking (Presentation)
CS 8-3	James Goldman , <i>Metso Automation</i>	Optimization using a New On-Line Brightness Measurement (Presentation)

CS 9: Diagnostics and Analysis

Moderator: **Michel Ruel**, *BBA-Top Control Inc.*

CS 9-1	Timothy F. Murphy , Kevin D. Starr , <i>ABB Inc.</i>	Paper Machine Transition Troubleshooting from Stock Blending to the Reel (Presentation)
CS 9-2	Kimmo Konkarikoski , <i>Tampere University of Technology</i> ; Jorma Kemppainen , <i>Stora Enso</i>	Traffic Light Application for Tail Threading

		(Presentation)
CS 9-3	Antti Nissinen, Seyhan Nuyan, Metso Automation	Performance Improvements and Sustainability Through a Remote Monitoring, Analysis, and Warning System - Benchmarking Performance for Long-Term Stability (Presentation)

CS 11: Process Control Posters
Moderator: **Nancy Ross-Sutherland, USDA Forest Products Laboratory**

CS 11-1	George Buckbee, Expertune Inc.	Finding the Root Cause of Basis Weight Cycles (Presentation)
CS 11-2	Michael G. Forbes, Charles Zhan, Johan U. Backstrom, Joyce Choi, Pezhman Nafissi, Honeywell Process Solutions	Enhanced Cascade Weight Control for Paper Machines (Presentation)

***** BEGINNING OF RPTA SESSIONS *****

RPTA Session I: Energy Conservation

RPTA I-1	Jerry Vandoros, Kadant	Doctoring the Energy Efficient Way
RPTA I-2	Tom Frey, Progressive Engineers	Application of Glycol Heat Exchangers to Capture Lost Btu's
RPTA I-3	Greg Wedel, Kadant Johnson	RPTA Machine Efficiency Benchmarking Template

RPTA Session II: Maintenance and Reliability

RPTA II-1	Steve Uitenbroek, Metso	Safe, Practical Solutions for Trim Roll Handling on the Winder Deck
RPTA II-2	Jim Davis, PCA Consulting	Operator Driven Reliability

RPTA Session III: Fiber Quality and Supply

RPTA III-1	Barbara Wright Hudson , <i>Forest2Market</i> ; Tom Wood , <i>National Fiber Supply</i>	Fiber Supply and Availability Panel (Presentation)
RPTA III-2	Chris Demler , <i>Kadant Black Clawson Inc.</i>	Hydraflow Continuous Detrashing System
RPTA III-3 A	Mahendra Doshi , <i>Doshi and Associates, Inc.</i> ; Brian Altherr , <i>Ashland Water Technologies</i>	Monitoring and Controlling Stickies Part 1 (Presentation)
RPTA III-3 B	George Thomas , <i>Buckman USA</i>	Monitoring and Controlling Stickies - Part 2 (Presentation)

RPTA Session IV: Industry Hot Topics

RPTA IV-1	Brian O'Banion , <i>Fiber Box Association</i>	Alternate Wax Coatings
RPTA IV-2	Paul Noe , <i>AF&PA</i>	Mineral Oils