

May 1-4  
**PaperCon 2011**  
Northern Kentucky Convention Center

**RETHINK PAPER:**  
Lean and Green



**C1: Welcome Coating & Graphic Arts Keynote Address**

**M1: Keynote & Opening Session**

**M2: Executive Panel Discussion**

Moderators: **Ray Heuchling**, *Chair, PIMA Executive Council, President, Heuchling & Associates*; **Keith Meyer**,  
*Senior Vice President, Andritz*

**C3: Coating Materials Common Interest Group Lunch & Learn**

**C4: Coating Fundamentals Common Interest Group Lunch & Learn**

**C5: Printing Common Interest Group Lunch & Learn**

**Eric Serenius**, *Daetwyler R&D Corporation*

[Printed Electronics and Gravure](#)

**NTS 1: Lunch and New Technology Showcase (Papermaking Topics): Commercial Presentations**

Moderator: **Marc Foulger**, *GL&V USA Inc.*

NTSI.01 **Brad Robillard**, *Beta LaserMike*

[Non-Contact, Laser-Based Technology for Accurately Measuring the Length and Speed of Product in Paper Production](#)

NTSI.02 **John Schwamberger**, *DuBois Chemicals*

[DuBois Chemicals' Unique Press Felt Cleaning Methods Provide Productivity and Cost Savings](#)

NTSI.03 **Kevin Erickson**, *The Way, Incorporated*

[Safe Acid Cleaning Technology Advances](#)

NTSI.04 **Michael Molter**, *BTG Americas*

[New Optical Sensors with Real-Time Measurement of Ash and Total Consistency Throughout the Papermaking Process](#)

- NTSI.05 **Charles H. Wunner**, *CVN Vooner Paper Machinery* [New 'Vooner Vac' Vacuum Pumps](#)
- NTSI.07 **Eric Reber**, *Mahlo America* [Mahlo Introduces Revolutionary New On-line Sensor Technologies for the Paper Industry](#)
- NTSI.09 **Kerin Lester**, *SoniSys, Inc.* [OPUS 3-D - A Unique Innovation in Non-Destructive Testing](#)
- NTSI.10 **Giovanni Cristini**, *Cristini* [Cristini FiberScan Fix – Microwave Consistency Meter](#)
- NTSI.13 **Ulrika Wising**, *Pepite* [ENERGYmaestro – Empowering you](#)

### **M3: Lean and Green - Energy**

Moderator: **Dan Rivard**, *VP/GM Subscription Business Services, Industry Intelligence Inc.*

- M3.01 **Dan Maheu**, *President/COO, Smart Paper Holdings LLC* [Implementing an Industrial Smart Metering System](#)  
(Presentation)

### **P1: Operational Excellence Kick-off Session**

Moderator: **Jeffrey R. Reese**, *International Paper*

- P1.01 **Jeff Levensailor Sr.**, *Domtar Paper* [Papermaking Excellence Keynote](#)

### **P2: Stock Preparation and Forming Dynamics**

Moderator: **Scott Pantaleo**, *International Paper*

- P2.01 **Dr. Andreas Gorton-Hülgerth**, *Andritz AG* [Application of Computational Fluid Dynamics in the Development and Optimization of Stock Preparation Equipment](#)  
(Presentation)
- P2.02 **Xujun Hua**, *FPIInnovations* [A Novel Ultrasonic Dynamic Drainage Tester](#)  
(Presentation)
- P2.03 **Frank Swietlik**, *Metso* [New Insights into Gap Forming of Lightweight Containerboard](#)  
(Presentation)

### **P3: Papermaking Additives Kick-off Session (Young Professionals)**

Moderator: **Darren Swales**, *Kemira*

### **C6: Coating Best Papers I**

Moderator: **Anthony Lyons**, *IMERYS Pigments Inc.*

- C6.01 **Daniel H. Varney**, *OMYA Inc.* [Main Coating Parameters Affecting the Surface Strength of Sheet Offset Paper](#)  
[\(Presentation\)](#)
- C6.02 **Janet S. Preston**, *IMERYYS Minerals Ltd.* [Impact of Pigment Blend and Binder Level on the Structure and Printability of Coated Papers](#)  
[\(Presentation\)](#)
- C6.03 **Jeffrey White, Irl Duling, John J. Riccardi**, *Advanced Photonix*; **Jason Morgan, Mike Friese**, *Appleton* [Use of a Pulsed Terahertz Sensor for Coat Weight, Noncontact Caliper Thickness and Moisture Measurement](#)  
[\(Presentation\)](#)

### **C7: Coating Best Papers II**

Moderator: **Alonzo Osgood**, *SAPPI Fine Paper N.A.*

- C7.01 **Roger Bollstrom**, *Abo Akademi University* [Top Layer Coatability on Barrier Coatings](#)  
[\(Presentation\)](#)
- C7.02 **Johannes Kritzinger**, *Graz University of Technology* [Quantification of the Penetration of Coating Pigments Into the Base Paper Determined by Automated Serial Sectioning](#)  
[\(Presentation\)](#)

### **M4: Lean and Green - Fiber**

Moderator: **Keith Meyer**, *Senior Vice President, Andritz*

### **P4: Keys to Success: Panel Discussion on Improving Paper Machine Efficiency**

Moderator: **Tom Rodencal**, *Nalco Company*

- P4.00 **Tom Rodencal**, *Nalco Company* [Session Summary](#)
- P4.02 **Grant Forrest**, *Domtar - Johnsonburg, PA* [Improving and Maintaining High Papermachine Efficiency](#)

### **P5: Fillers and Retention Aids**

Moderator: **Leslie McLain**, *IMERYYS*

- P5.02 **Stephane Menard**, *Ashland Hercules Water Technologies* [High Ash Copy Paper – A New Approach](#)  
[\(Presentation\)](#)
- P5.03 **Ross T. Gray**, *Nalco Company* [New Technology for Increased Filler Usage and Fiber Savings in Graphic Grades](#)

[\(Presentation\)](#)

**P6: Fluid Mechanics of Micro/Nano-fibrillated Cellulose Suspensions**

Moderator: **Claes Holmqvist**, *JohnsonFoils*

- P6.01 **Daniel Söderberg**, *Innventia* [Fluid Dynamic Challenges in Future Nano Fiber Cellulose Processes](#)
- P6.02 **Paul Krochak, Mikael Ankerfors, Richard Holm PhD, Tom Lindstrom**, *Innventia* [Drag Reduction Characteristics of Micro-Fibrillated Cellulose](#)  
[\(Presentation\)](#)
- P6.03 **Juha Salmela**, *VTT Technical Research Centre of Finland* [Laboratory-Scale Pipe Rheometry - A Study of a Microfibrillated Cellulose Suspension](#)  
[\(Presentation\)](#)
- P6.04 **Mark Martinez**, *University of British Columbia* [Novel Fractionation Techniques - Fractionation of MFC Suspensions](#)  
[\(Presentation\)](#)

**P7: Hot Topics Breakfast**

Moderator: **Dale Midyett**, *Jacobs Engineering*

**P8: How to Manage Clothing to Optimize Machine Performance: Panel Discussion**

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

- P8.01 **Tom Coulter**, *Voith* [How to Manage Clothing to Optimize Machine Performance](#)
- P8.03 **Bill Luciano**, *Albany* [Paper Machine Clothing Trends in Today's American Market](#)
- P8.04 **Daryl Wells**, *AstenJohnson* [How to Manage Clothing to Optimize Machine Performance](#)

**P9: Improving Wet Web Strength and Runnability**

Moderator: **Frank Sutman**, *Ashland Hercules Water Technologies*

- P9.01 **Kristian Erik Salminen**, *VTT Technical Research Centre of Finland* [The Effects of Certain Polymers on Tensile Strength and Tension Relaxation of Wet Web](#)  
[\(Presentation\)](#)
- P9.02 **Xujun Hua**, *FPInnovations* [Wet-Web Strength and Pressability of Highly-Filled Sheets](#)

[\(Presentation\)](#)

P9.03 **Hanna Lindqvist**, *Abo Akademi* [The Effect of Fines on Wet and Dry Web Properties](#)

[\(Presentation\)](#)

P9.04 **Frank J. Sutman**, *Ashland Hercules Water Technologies* [The Influence of Filler Content and Process Additives on Wet Web Strength and Runnability](#)

[\(Presentation\)](#)

### **P10: Paper Machine Performance Monitoring, Benchmarking and RPI's**

Moderator: **Ian Journeaux**, *NewPage*

P10.02 **Danlei Chu**, *Honeywell Inc.* [Online CD Performance Monitoring and Automatic Alignment](#)

[\(Presentation\)](#)

P10.03 **Kimmo Konkarikoski**, *Tampere University of Technology* [Optimal Quality Limits for On-line Measurements](#)

[\(Presentation\)](#)

P10.04 **Shih-Chin Chen**, *ABB Inc.* [Analysis of Sheet Variations – Insights of Two-Dimensional Residuals](#)

### **P11: Plenary Session - Tissue Market Overview**

Moderator: **Gary Furman**, *Nalco*

P11.01 **Soile Kilpi**, *Principal, Poyry Management Consulting USA, Inc* [State of the Tissue Industry – 2011 and Onwards](#)

### **C8: Barrier and Functional Coatings**

Moderator: **Steven Ottone**, *Mallard Creek Polymers*

C8.01 **Don Hoesl, Martin Cohen**, *Michelman, Inc* [The Future of Barrier Coatings](#)

[\(Presentation\)](#)

C8.02 **Jouko T. Vyorykka**, *Dow Chemical USA* [Aqueous Polyolefin Dispersion for Packaging Boards and Papers](#)

[\(Presentation\)](#)

C8.04 **Vesa Kunnari**, *VTT Technical Research Centre* [Creating Printed Intelligence Using Novel Roll to Roll Surface Treatment Equipment - Two Case Studies](#)

[\(Presentation\)](#)

## M5: Lean and Safe - People

Moderator: **Roger Smith**, *K1 Paper Machine Area Manager, Domtar*

## P12: Implementing LEAN, Six Sigma & Similar Programs: Panel Discussion (Young Professionals)

Moderator: **Paula McKnight**, *U.S. Gypsum*

P12.00 **Paula McKnight**, *U.S. Gypsum* [Session Summary](#)

P12.03 **Rebecca Harper, Mike Benton**,  
*AstenJohnson, Inc.* [Lean Journey](#)

## P13: Process Control Solutions for Improved Energy Efficiency

Moderator: **Dr. Johan Backstrom**, *Honeywell*

P13.01 **Paul Austin**, *Perceptive Engineering* [Improved Efficiency and Reduced Energy Use in Papermaking Using Advanced Process Control](#)  
[\(Presentation\)](#)

P13.02 **Daniel Waetzig**, *BTG Americas Inc.* [Reducing Energy Costs through Closed Loop Refiner Control](#)

P13.03 **Keith R. Masters**, *ABB* [Energy Management and Optimization](#)  
[\(Presentation\)](#)

## P14: Recent Developments in Tissue Functional Properties

Moderator: **Dr. Melur K. Ramasubramanian**, *North Carolina State*

P14.01 **Dr. Melur K. Ramasubramanian**, *North Carolina State* [Modeling and Simulation of the Creping Process](#)

P14.02 **Dave W. Loebker PhD**, *Procter & Gamble Company* [Paper Towel Absorptive Properties - Analytical Measurement and Consumer Preference](#)  
[\(Presentation\)](#)

P14.03 **Robert H. Pelton**, *McMaster University* [New Polymers for Wet Strength – An Academic Perspective](#)

## C9: Coating Structure & Material Influences on End Use Applications

Moderator: **Manoj Dixit**, *Appleton*

C9.01 **John W. Du**, *BYK USA* [What Does Interfacial Chemistry Have to Do with Missing Dots and Poor Ink Acceptance?](#)  
[\(Presentation\)](#)

- C9.02 **Catherine Ridgway**, *OMYA Development AG* [Effects of Binders and Additives on Inkjet Coating Pigment Pore Structures](#)  
[\(Presentation\)](#)
- C9.03 **Benny Hallam**, *Imerys Minerals Ltd.*; **Peter Vukusic**, *University of Exeter* [Future Coating Designs for Enhanced Optics – Taking Lessons from Nature](#)  
[\(Presentation\)](#)

## **NTS II: Lunch and New Technology Showcase (Coating Topics): Commercial Presentations**

Moderator: **Gregg Reed**, *Georgia-Pacific Chemicals LLC*

- NTSII.01 **Chris Lazaroff**, *Celanese* [Novel VAE Binder for Paper Coating](#)
- NTSII.02 **Mark Witort**, *Thwing-Albert Instrument Company* [Dynamic Performance of Paper and Board](#)
- NTSII.03 **Dan Varney**, *Omya* [Production Inkjet - The Market, Technology & Pigments](#)
- NTSII.04 **Gabriel Foglia**, *Dupont Soy Polymers* [Pro-Cote® 4610E & 5000E are REACH Friendly](#)
- NTSII.05 **Tom Hannigen**, *Ashland Hercules Water Technologies* [Ashland's and Michelman's New Water Based Barrier Systems Technology for Packaging](#)
- NTSII.06 **Aaron Hart**, *J. Rettenmaier USA* [Arbocel UFC100 - Novel Ultrafine Plant Derived Cellulose Fiber for LWC and Board Coating](#)
- NTSII.07 **Martin Schmid**, *Voith* [qDry Pro - The Professional Integration of Infrared and Hot Air Dryers](#)
- NTSII.08 **Cathy Joss**, *Optest* [Monitoring Plastic Contamination in Pulp Furnishes for Coated Paper & Board Grades](#)
- NTSII.09 **Jacki Laurich**, *Omnova* [Next Generation High Efficiency Binders](#)
- NTSII.10 **Heikki Mustalahti**, *ACA Systems* [Permi - Online Porosity Analyzer for Coated and Uncoated Papers](#)

## **M6: Superintendent's Roundtable**

Moderators: **John Neun**, *Staff Engineer, Albany International*; **Paul Fredrickson**, *Business Team Leader, Asten Johnson*; **Jeff Levensailor**, *Mill Manager, Domtar*

## **M7: Business Systems Overview (Young Professionals)**

Moderator: **Colynn Boyd**, *Process Engineer, Evergreen Packaging*

## **P15: Papermaking Success Stories (15 Minute Presentations)**

Moderator: **Martti Toumisto**, *RTS Alliance*

- P15.01 **Jerry L. Aue**, *Aue Energy Consulting / a Focus on Energy provider* [Redesigning Repulping Operations - A Success Story](#)  
[\(Presentation\)](#)
- P15.02 **Dick Reese**, *Dick Reese and Associates Inc.* [Papermaking Energy Case Histories](#)
- P15.03 **Jussi Lahtinen**, *Runtech Systems* [Clairefontaine PM 6, France - Energy Savings in Paper Machine Vacuum System](#)
- P15.04 **Timo Haverinen**, *EV Group* [Stora Enso, Anjala PM 2 - Major Speed Increase with Dryer Section Runnability Improvements](#)
- P15.05 **Valter Canelli**, *PMT Italia* [Smarnip - Shoe Press Evolution to Improve the Paper Quality](#)
- P15.06 **Tom Berger**, *Andritz* [Andritz LemaxX Spiral® 200 Series Refiner Plate Designs](#)

#### **P16: Green Advancement in Chemical Additives**

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

- P16.01 **Mark D. Crable**, *Greenville Colorants* [The Evolution of Tinting Dyes in White Papers](#)  
[\(Presentation\)](#)
- P16.02 **Victor Hugo Ordonez**, *VH BIOTECHNOLOGY, Inc.* [Green Technology - Last Developments in Enzymes For Paper Recycling](#)  
[\(Presentation\)](#)
- P16.03 **Asif Hasan**, *State University of New York* [Environmentally Friendly Wet-End Paper Reinforcement Agents](#)  
[\(Presentation\)](#)

#### **P17: Stock Preparation and Wet End Control Improvements**

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

- P17.01 **Kraig R. Kent**, *Ashland Hercules Water Technologies* [Closed Loop Defoamer Control Stabilizes Paper Machine Operations](#)
- P17.02 **Hank A. Brittain** *MScHE, PhD, Top Control, Inc.* [Combat Process Disturbances and Interactions](#)  
[\(Presentation\)](#)

#### **P18: Yankee Dryer Safety and Reliability - Panel Discussion**

Moderator: **Peter K. Costello**, *Kimberly-Clark*

## **C10: Multi-Layer Coating Influences on End Use Applications**

Moderator: **Jeff Lange**, *Bercen, Inc.*

- C10.01 **Brian J. Ninness**, *Styron LLC* [Aqueous Glue Setting in Double-Coated Paperboard Systems - The Impact of Application System and Individual Coating Layer Thickness on Glue Bond Formation](#)  
[\(Presentation\)](#)
- C10.02 **Christopher Nutbeem**, *IMERYS Minerals Ltd.* [Optimized Precoats for Multilayer Coating](#)  
[\(Presentation\)](#)
- C10.03 **Arthas Yang**, *Styron LLC* [From Theory to Practice - Improving the Foldcrack Resistance of Industrially Produced Triple Coated Paper](#)  
[\(Presentation\)](#)

## **C11: Hagemeyer Happy Hour**

Moderators: **Janet Preston**, *Imerys Minerals Ltd.*; **Alonzo Osgood**, *Sappi Fine Paper N.A.*

## **M8: Cost Effective Paper Machine Projects**

### **P19: Superintendents/Papermakers Combined Roundtable (Joint w/PIMA - M9)**

Moderators: **John Neun**, *Staff Engineer, Albany International*; **Paul Fredrickson**, *Business Team Leader, Asten Johnson*; **Jeff Levensailor**, *Mill Manager, Domtar*

### **P20: Tissue Forming Systems: Panel Discussion**

Moderator: **Jay Shands**, *JohnsonFoils*

- P20.01 **Mike J. Hendricks**, *BTG Americas Inc.* [Consistency Measurement and Control in a Tissue Mill – The Often Neglected Parameter](#)  
[\(Presentation\)](#)
- P20.02 **Bruce Janda**, *AstenJohnson* [Forming Fabric Applications for Tissue Making](#)
- P20.03 **Brian Christiansen**, *Andritz Pulp and Paper* [Detailed Analysis of the Dewatering Process on a Crescent Former Tissue Machine](#)

### **P21: Additives to Keep the System Clean & Green**

Moderator: **R. Daniel Haynes**, *EKA Chemicals Inc.*

- P21.01 **David Kelso**, *DuBois Chemicals* [Rethinking Press Fabric Cleaning To Be Lean & Green](#)  
[\(Presentation\)](#)

- P21.02 **Ann-Charlotte Jansson**, *Linde AG/Linde Gas Division* [Environmentally Friendly Process Improvements Using Carbon Dioxide](#)
- P21.04 **R. Daniel Haynes**, *EKA Chemicals Inc.* [Removing the Unknown of Lap Pulp Colloidal Stickies to Improve Paper Machine Runnability](#)  
[\(Presentation\)](#)

**M10: State of the Industry (PIMA Executive of the Year Award)**  
Moderator: **Peter Gaddie**, *PaperCon Conference Chair, Nalco Company*

**P22: Making Nip Dewatering Work: Panel Discussion**  
Moderator: **Jim West**, *International Paper*

**John Neun**, *Albany* [Nip Dewatering - A Press Fabric Perspective](#)

**P23: Minimizing Microbes and Maximizing Profits: Roundtable**  
Moderator: **Ken Keegan**, *Kemira*

- P23.00 **Ken Keegan**, *Kemira* [Session Summary](#)
- P23.01 **Jim Anderson**, *Eka Chemicals* [Minimizing Microbes and Maximizing Profits](#)
- P23.02 **Phil Prichard Ph.D.**, *Philip M. Prichard LLC.* [Case Histories: Biocide Interactions and Development of Microbial Tolerance/Resistance to Biocides in the Paper Making Process](#)
- P23.03 **Linda Robertson**, *International Microbial Associates* [Why Isn't My Program Working? Exploring Microbial Resistance at the Wet End](#)  
[\(Presentation\)](#)
- P23.04 **Janet Woodward, Tod Stoner**, *Buckman* [Deposit Analysis – Investigating Microbial Problems in a Paper Machine Environment](#)  
[\(Presentation\)](#)

**P24: Property Improvement and Energy Reduction Opportunities from Paper Machine Clothing**  
Moderator: **Jimmy Jong**, *FPInnovations*

- P24.01 **Oliver Baumann**, *Xerium Technologies* [How Can a Forming Fabric Reduce Energy Consumption in the Forming Section?](#)  
[\(Presentation\)](#)
- P24.02 **David G. McVey**, *Albany International* [Enhanced Capabilities in Wet-end Paper Machine Clothing](#)

[\(Presentation\)](#)

P24.03 **John Xu**, *AstenJohnson*

[The Effect of Press Felt Non-uniformity on Sheet Smoothness and Dewatering](#)

P24.04 **Haiya Peng**, *University of British Columbia*

[PIV Measurements of Flow Immediately Above Woven Fabrics](#)

[\(Presentation\)](#)

### **C12: Advances in Biobased and Renewable Coating Material**

Moderator: **Femi Kotoye**, *Styron LLC*

C12.01 **Johann Oberndorfer**, *Myllykoski Corporation*; **Phil Greenall, Steven Bloembergen**, *ECOSYNTHEIX INC.*

[Coating & Print Performance of Biobased Latex in European Graphic Papers](#)

[\(Presentation\)](#)

C12.02 **Douglas W. Bousfield**, *University of Maine*

[Application of Nano-Fibrillated Cellulose as a Paper Surface Treatment For Inkjet Printing](#)

[\(Presentation\)](#)

C12.03 **Chuck Klass**, *Klass Associates Inc.*

[Biobased Materials for Paper Coating](#)

[\(Presentation\)](#)

### **M11: Mill Managers Roundtable**

Moderator: **Jack Bray**, *Mill Manager, Domtar, Hawesville, KY*

### **P25: Paper Machine Process Engineering: Panel Discussion of Young Engineers (Young Professionals)**

Moderator: **Philip Wells**, *Wells Enterprises Inc. (University of WA 1978)*

**Philip Wells**, *Wells Enterprises Inc. (University of WA 1978)*

[Session Summary](#)

### **P26: Microbiology**

Moderator: **Mark Nelson**, *Kemira*

P26.01 **James R. Anderson**, *EKA Chemicals Inc.*

[Effective Paper Machine Slime Control and No Vapor Phase Corrosion](#)

P26.02 **Linda Robertson**, *International Microbial Associates Inc.*

[Review of TAPPI - Monograph on Microbiology of Papermaking Systems](#)

### **P27: Innovative Measurement and Control Applications**

Moderator: **Paul Austin**, *Perceptive Engineering*

- P27.01 **Danlei Chu**, *Honeywell* [Advanced Multivariable Fiber Orientation Control and Twist Optimization](#)  
[\(Presentation\)](#)
- P27.02 **Stephen Chu**, *Honeywell* [Gain Delay Retune in Multivariable Controls for the Papermaking Process](#)  
[\(Presentation\)](#)
- P27.03 **Frederic Parent**, *FPInnovations* [Measurement and Correction of Baggy Edges on Paper Machines](#)  
[\(Presentation\)](#)

### **C13: Coating & Calendering Operation Cost Optimization**

Moderator: **Martti Tuomisto**, *RTS Alliance LLC*

- C13.01 **Mark D. Crable**, *Greenville Colorants* [Continuous Coloration of Coatings for Coated Paper & Board](#)  
[\(Presentation\)](#)
- C13.02 **Martin Schmid**, *Voith Paper Inc.* [Curtain Coater as Air Knife Replacement](#)  
[\(Presentation\)](#)
- C13.03 **Robert D. Carney**, *Stowe Woodward/Mount Hope* [Advancements in Composite Roll Cover Technology For Calender Applications](#)  
[\(Presentation\)](#)

### **M12: Mill IT Systems Overview (Young Professionals)**

#### **P28: Energy Optimization**

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

- P28.01 **Mike Pemberton**, *ITT PPS Energy Performance Services* [Holistic Pump System Designs to Optimize System Efficiency and Life Cycle Performance](#)  
[\(Presentation\)](#)
- P28.02 **Thomas Wroblewski P.E.**, *CleanTech Partners* [Energy Efficiency Frontier – Lean and Green Refining](#)  
[\(Presentation\)](#)
- P28.03 **William S. Butterfield**, *Stowe Woodward/Mount Hope* [Recent Advances in Rubber Roll Covers for Improved Paper Machine Performance and Reduced Energy Requirements](#)

[\(Presentation\)](#)

**P29: Tools to Improve Paper Machine Efficiency**

Moderator: **Ray Krumenacker**, *Ray Krumenacker and Associates*

P29.01 **Keith R. Masters**, *ABB Inc.* [Papermaker's Experience with State-of-the-Art Automation](#)

[\(Presentation\)](#)

P29.02 **Kari K. Hilden**, *Papertech Inc.* [Improving Papermaking & Coating Efficiency with Web Inspection Cameras](#)

[\(Presentation\)](#)

**P30: Cost Saving Additives Strategies: Workshop I**

Moderators: **Marty Hubbe**, *North Carolina State*; **Kasy King**,

**Marty Hubbe**, *North Carolina State* [Cost-Saving Strategies in Papermaking Chemistry – Mini-Course Version](#)

**P31: Papermaking Operational Excellence Wrap-up Roundtable**

Moderator: **Jeffrey R. Reese**, *International Papers*

**P32: Maintenance Optimization**

Moderator: **Mark Harrison**, *Metso*

P32.01 **Wes Martz**, *Kadant Inc.* [Effectiveness of Paper Dryer Journal Insulating Sleeves](#)

[\(Presentation\)](#)

P32.02 **Erkki Jaatinen**, *Metso Automation USA Inc.* [Process Operators and Maintenance Staff Work Hand-in-Hand with DCS-Embedded Condition Monitoring](#)

[\(Presentation\)](#)

P32.03 **Jochen Struck**, *RTS Alliance* [Original Ruby Nozzle Technology for Improved Wet End Edge Trimming and for Oscillating HP Showers](#)

[\(Presentation\)](#)

**P33: Cost Saving Additives Strategies: Workshop II**

Moderators: **Marty Hubbe**, *North Carolina State*; **Kasy King**,

**Marty Hubbe**, *North Carolina State* [Cost-Saving Strategies in Papermaking Chemistry – Mini-Course Version](#)

**Poster Session**

Moderator: **Nancy Ross Sutherland**, *USDA Forest Products Lab*

- 1 **Shiuli Mahmud**, *SUNY-ESF College* [A Comparative Study of Different Fillers on Uncoated Eucalyptus Digital Printing Paper Properties - A Pilot Scale Approach](#)
- 2 **Roger Bollstrom**, *Abo Akademi University* [Towards Paper Electronics - A Multilayer Coated Fiber-Based Substrate Suitable For Printed Functionality](#)
- 3 **Yizhou Sang**, *The University of British Columbia* [Experimental Investigation and Mathematical Modeling of PCC Flocculation Induced by Starch/Silica System](#)
- 4 **Teruaki Sato**, *McMaster University* [DNA Aptamer Adsorption onto Cellulose](#)
- 5 **Steven Edwards**, *Cellulose Sciences International* [Nanoporous Cellulose - A New Fiber](#)
- 6 **Ana Lourenço**, *Chemical Engineering Department* [Two-Layer Coated Papers Using Precipitated Calcium Carbonate](#)
- 7 **Levente Csoka**, *University of West Hungary* [Hydrodynamic Cavitation Digested Wheat Straw and Biogas Production From the Residue](#)