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TAPPI Proceedings



Session

Presenter

Title

PIMA Management Program

M01: Opening Session and Keynote Address

Moderators: **Keith Kemp**, *AstenJohnson*; **Anitra Collins**, *International Paper*

Jim Abbott, *Former MLB Pitcher*

M02: Executive Panel Discussion

Moderator: **Roger Hagan**, *Port Townsend Paper*

1 **Suzanne Blanchet**, *Cascades*

2 **Bruce Hoffman**, *KapStone*

3 **Jukka Tiitinen**, *Valmet*

M03: Leveraging IT Tools to Improve Operational Efficiency

Moderator: **Fredric Karlsson**, *Enterprise Performance Solutions*

1 **Alistair Skey**, *Zellstoff Celgar, div. of Mercer International*

[Changing the Status Quo - The New Look of IT in Manufacturing](#)

2 **Christophe Deslandes**, *KapStone*;
David Pawelke, *MAJIQ, Inc.*

[Pulp and Paper IT Solutions - Reduce Your Costs and Compromises](#)

M04: Different Generation Gaps - Management & Relationships

Moderator: **John VanDerKolk**, *Kemira*

1 **Sabrina Burkhardt**, *Econotech*

2 **Matt Elhardt**, *Fisher*

3 **Dave Thompson**, *ChemTreat*

M05: In Tune for Safety
Moderator: **Steve Tremont**, *BASF*

1 **Tess Ventress**, *TAPPISAFE* [TAPPISAFE](#)

2 **Steve Smith**, *Domtar* [Domtar Ashdown Mill](#)

M06: World Class Reliability
Moderator: **Roger Smith**, *Domtar*

1 **Robert Matthews**, *Royal Purple* [World Class Reliability isn't as Much About Eliminating Failures, as it is About Creating Successes](#)

M07: Mill Workforce Development - Sustaining Agility and Profitability through Developing Employees

Moderator: **Steve Farmer**, *Genesis Performance Partners*

1 **James Stockard**, *Poyry*

2 **Michael von Grumbkow**, *Voith*

3 **Bruce Warrick**, *KapStone* [Replenishing Our Workforce](#)

4 **Don DeFreese**, *Humeng*

M08: Lean Manufacturing at Graphic Packaging
Moderator: **Jaydn Bonifas**, *Ashland Water Technologies*

1 **Fraser Cameron**, **Bradley Willis**, *Graphic Packaging* [Using the T-Card System to Raise the Operational Performance of a Board Mill](#)

2 **Mike Benton**, *Paperchine*

M09: Managing Contractor and Vendor Relationships
Moderator: **Matt Elhardt**, *Fisher*

1 **Dan Gross**, *Kuttner*

2 **Mike Deprey**, *Green Bay Packaging*

M10: Superintendent Roundtable
Moderator: **Jeff Levensailor**, *Domtar*

M11: Papermakers & Superintendent Roundtable
Moderators: **John Neun**, *Albany International*; **Jeff Levensailor**, *Domtar*; **Paul Fredrickson**, *Boise*

M12: State of the Industry

Moderator: **Anitra Collins**, *International Paper*

1 **Kurt Schaefer**, *RISI*

2 **John Dixon**, *Deloitte Consulting LLP*

M13: Mill Managers Roundtable

Moderator: **Matt Szymanski**, *Green Bay Packaging, Arkansas Kraft Division*

1 **Steve Myers**, *Expera Specialty Papers*

2 **Jeff Walch**, *Green Bay Packaging*

Papermaking Program

PU01: Paper Machine Upgrades Track Kick-Off

Moderator: **Jeff Reese**, *International Paper*

1 **Rodney N. Fisher**, *Fisher International* [The Capital Landscape and Where It is Going](#)

PU02: Keys to Successful Paper Machine Upgrades

Moderator: **Jeff Reese**, *International Paper*

1 **Daniel L. Soderberg**, *KTH Royal Institute of Technology* [Resource Efficiency Through Top-Down Development](#)

PU03: Paper Machine Vacuum System Upgrades

Moderator: **Doug Sweet**, *Doug Sweet & Associates*

1 **Juha Karvinen**, *Runtech Systems* [Vacuum System and Dewatering Optimization](#)

2 **Manfred Dobler**, *MAN* [TURBAIR® Vacuum Systems](#)

3 **Chuck Wunner**, *Vooner* [Liquid Ring Vacuum Pumps](#)

4 **Gerhard Goeller**, *Nash* [Energy Savings in Vacuum Systems](#)

PU04: Success Stories

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

1 **Murray Hewitt**, *Greenpac Mill LLC* [Greenpac Mill LLC - North America's Newest Greenfield Paper Mill Startup - July 2013](#)

2 **Janie Lasik, Allen Bowdler**, *Crystaltek Pratt Ind. - Conyers* [Stickies Removal Cleaning at Pratt Industries, Conyers, Georgia, Recycled Linerboard Mill](#)

- | | | |
|---|---|---|
| 3 | Chuck Doupe , <i>Voith Paper</i> | Upgrade of Fiber Line at Newark in Fitchburg, MA, Mill |
| 4 | Kari Lamminmäki , <i>Valmet</i> ; David Moore , <i>Sappi - Somerset</i> | Case Study - Better Formation and Significant Cost Savings After a Forming Section Rebuild at Sappi Somerset Mill PM3 |
| 5 | Kenneth C. Hill , <i>Kadant Johnson Systems</i> | Midwest Fine Paper Machine Dryer Rebuild |
| 6 | Philip Wells , <i>Wells Enterprises Inc.</i> | Non-turbulent Steam Shower in Bi-Nip 'Tunnel' of Hood Container, New Johnsonville, TN |

PU05: Drying Energy and Ventilation Upgrades

Moderator: **Gary Nyman**, *International Paper*

- | | | |
|---|--|---|
| 1 | Dick Reese , <i>Dick Reese & Associates</i> | Paper Machine Upgrades to Reduce Energy Consumption |
| 2 | Kenneth C. Hill , <i>Kadant Johnson Systems</i> | Evaluating Dryer Steam and Condensate Rebuild Opportunities |
| 3 | David Young , <i>Enerquin Air</i> | Is Your Wet End Really Wet |

PU06: Papermaking Roundtable

Moderator: **John Neun**, *Albany International*

PU07: Chemical Injections Systems

Moderator: **David Dyer**, *International Paper*

- | | | |
|---|--|--|
| 1 | Ken Matthews , <i>Akzo Nobel</i> | Silica and Paper Chemicals |
| 2 | Brian Altherr , <i>Ashland</i> | PerForm™ VMax 1000 Mixing Technology |
| 3 | Ruben Manzanares , <i>Nalco</i> | PARETO™ Mixing Technology - Enhancing Chemical PERFORMANCE |
| 4 | Thomas Jaschinski , <i>Voith Paper</i> | FlowJec™ Increase in Efficiency Due to New Dosing Technology |
| 5 | Jouni Matula , <i>WetEnd Technologies</i> | Good Mixing Makes The Difference |

PU08: Quality Control Upgrades

Moderator: **Shin-Chin Chen**, *ABB*

- 1 **Thomas Brown**, *Honeywell Inc.* [The Quality Control System Upgrade Decision](#)
- 2 **Per Sandstrom**, *ABB* [An Evolutionary Approach to QCS Upgrades](#)
- 3 **Seyhan Nuyan**, *Metso Automation Business Line* [An Upgraded QCS Becomes Operators' New Friend](#)

PU09: Upgrades to Improve Machine Efficiency

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

- 1 **Donald Carpenter**, *Voith Paper* [Focus on Tail Threading to Increase Operator Safety while Improving Machine Efficiency](#)
- 2 **Tim Rye**, *Ryeco, Inc.* [Reliable Edge Crack Detection can be a Cost-effective Productivity Upgrade for Many Paper Machines](#)
- 3 **Gregory M. Jones**, *GL&V Beloit Lenox* [Slitter Section Automation for Improved Safety and Efficiency](#)

PU10: Paper Machine Upgrades Wrap-Up

Moderator: **Jeff Reese**, *International Paper*

PD1: Focusing on the Future - Emerging Markets

Moderator: **Sandeep Kulkarni**, *Pepsi*

- 1 **Frank Perkowski**, *Business Development Advisory* [What's Next for the North American Paper and Board Industry?](#)
- 2 **Helena Stahle**, *Sodra* [DuraPulp - Sustainable Solutions for the Future](#)
- 3 **Kim Nelson**, *American Process Inc.* [Low Cost Production of Nanocellulose with the AVAP® Biorefinery Technology](#)

PD2: Flash Points Powered by Pecha Kucha

Moderator: **Sarah Dawkins**, *O'Neal Inc.*

- 1 **Jonathan Rivin**, *UW Extension, Solid & Hazardous Waste Education Center* [Safer Chemicals - Assessing Alternatives](#)

PD3: Advanced Fiber Development and their Applications

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

- 1 **Tea Toplisek**, *Pulp and Paper Institute* [Effect of Different Pre-treatments to a Novel Method for Cellulose Fibers Treatment](#)
- 2 **Katariina Torvinen**, *VTT Technical Research Centre of Finland* [Microfibrillated Cellulose as a Binding Material for High Filler Content Papers](#)
- 3 **Panu J. Lahtinen**, *VTT Technical Research Centre of Finland* [Effect of Fibrillated Additives on Paper Strength Properties](#)
- 4 **Eemeli Siitonen**, *Ashland Water Technologies* [Innovative Approach to Increase Filler or Reduce Long Fiber Without Compromising on Quality or Productivity](#)

PD4: IT Advances for Increased Profitability

Moderator: **Jim Pigott**, *MAJIQ, Inc.*

- 1 **Ben Whitaker**, *Mohawk* [Cost & Profitability Management Solution - Project Approach & Benefits](#)
- 2 **James H. Black, Ph.D.**, *OSIsoft* [Mill Analytics - A New Era](#)
- 3 **Timo Arra**, *Eurocon MOPSSys Inc.* [Stora Enso goes Mobile! Efficiencies Delivered to the Operations at Pulp and Paper Mills Using Mobile Technology](#)

PD5: Process and Quality Improvements

Moderator: **Rosy Covarrubias**, *Buckman*

- 1 **Robert Cooper**, *Buckman* [Optimizing Packaging with Enzymes](#)

2 **JP Bouchard**, *Paperchine Quantum Solutions* [Utilizing Expert Systems to Improve Paper Machine Operation and Lower Costs](#)

3 **Robert Grace**, *Ponderay Newsprint Company* [TMP White Water Clarification Leads to Improved Sheet Strength and Reduced Deposition on Papermachine](#)

PD6: Process Chemical Optimization

Moderator: **Steve Boone**, *Bercen*

1 **Paul Krochak**, *Innventia AB* [Techniques for Assessing Mixing Quality](#)

2 **Jari Kayhko**, *MUAS FiberLaboratør* [Overview Related to the Feeding of Paper Chemicals](#)

3 **Karin Athley**, *Innventia AB* [Optimize the Benefit of the Retention Chemicals](#)

PD7: Strength Additives for Packaging Producers

Moderator: **Larry Anker**, *Ashland*

1 **Michael A. O'Byrne**, *Ashland Water Technologies* [Biobond - Improving the Sustainability of Paper](#)

2 **Rob Lowe**, *Nalco* [Multifunctional Dry Strength Additives for Improved Production Efficiency](#)

3 **Joonas Hokka**, *Kemira Oyj* [A Novel Polyvinylamine Drainage and Strength Technology for Packaging Grades](#)

4 **Yuping Luo**, *Kemira Chemicals* [High-Solids Low AOX Polyamidoamine-Epichlorohydrin Resins](#)

PD9: DOE-Six Sigma Tutorial

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

1 **Bill Martin**, *RockTenn*

PF1: Improving Paper Machine Profitability with Agile Controls

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

1 **Kerry D. Figiel**, *International Paper* [The Need for CD Mapping Standards](#)

2 **Michael G. Forbes**, *Honeywell Inc.* [QCS Control Capabilities for Changing Process Conditions](#)

3 **Seyhan Nuyan**, *Metso Automation Business Line* [Robust CD Fiber Orientation Control with Adaptive Modeling and Feed-Forward Compensation](#)

PF2: Improving Pressing Efficiency

Moderator: **Bandaru Ramaro**, *SUNY*

1 **Frederic Parent**, *FPIinnovations* [Re-visiting PM Efficiency - Practical Applications of the Impact of Web Instability at the Open Draw in Mill Case Studies](#)

2 **Bob Carney**, *Xerium Technologies* [Using Press Nip Impulse to Increase Machine Efficiency](#)

3 **Daniel Hedou**, *AstenJohnson* [Optimizing Press Performance Through Nip Dewatering](#)

PF3: CFD Applications in Papermaking

Moderator: **Paul Krochak**, *Innventia AB*

1 **Stefan Thilo Probst-Schendzielorz**, *Voith Paper Fabrics GmbH & Co. KG* [Flow Analysis of Paper Machine Clothing](#)

2 **Brett Brotherson**, *Nalco* [Use and Validation of Computational Fluid Dynamics for Mixing Evaluation in Chemical Additive Application Systems](#)

3 **Jordan A. MacKenzie**, *University of British Columbia* [An Investigation of Turbulent Drag Reducing Additives on a Hydrocyclone Flow Field](#)

- 4 **Dewei Qi**, *Western Michigan University* [Lateral Migration of Fiber in Setting Suspensions](#)

PF4: Flexible Applications of Sheet Quality Measurements

Moderator: **David Maddux**, *Technology Service Professionals*

- 1 **Mark D. Crable**, *Crable Engineering LLC* [Online Color Measurement](#)
- 2 **Paul Krochak**, *Innventia AB* [Monitoring Tools for Efficient Papermaking](#)
- 3 **Eric Reber**, *Mahlo* [Very Low Maintenance Non-Contacting Laser Caliper Measurement for Paperboard](#)

PF5: Paper Machine Clothing in Papermaking

Moderator: **John Xu**, *AstenJohnson*

- 1 **Daniel Hedou**, *AstenJohnson* [The Effect of Press Felt on Press Section Vibration](#)
- 2 **Chad A. Martin**, *AstenJohnson* [Improving Wet End Efficiency with Latest in Forming Fabric Technology](#)
- 3 **Ronald Jurek**, *Voith Paper Inc.* [On-Line Press Felt Monitoring - Safe and Reliable](#)

PF6: Innovations in Web Imaging Systems

Moderator: **Kerry D. Figiel**, *International Paper*

- 1 **Kari K. Hilden**, *Papertech Inc.* [How Web Imaging Improves Papermaking Efficiency and Paper Quality](#)
- 2 **Ari Niinisto**, *ABB* [Advances in High Quality Web Imaging](#)
- 3 **Petri Karhula**, *Procemex Ltd*
RTS-Alliance LLC [Creating a New Web Inspection Beam](#)

PF7: Wet End Optimization

Moderator: **Jay Shands**, *Johnson Foils Paperchine*

- 1 **Fernando Cabrera Caram**, *FCPAPEL* [New Forming Concept in Wet End Optimization](#)
- 2 **Andy Forester**, *IBS North America* [Unleashing the Beast](#)
- 3 **Ken Stager**, *Paperchine* [The Science Behind the Art of a Wet End Rebuild](#)
- 4 **Doug Sweet**, *Doug Sweet & Associates* [Wet End Optimization - Maximizing Dewatering and Controlling the Former Vacuum System](#)

PF8: Fundamentals of Refining, Headbox and Forming

Moderator: **Jimmy Jong**, *FPIInnovations*

- 1 **Kristian Erik Salminen**, *VTT Technical Research Centre of Finland* [Foam Forming - The Effects of Surfactant Type on Characteristics of Fiber-Foam Suspension and Properties of Formed Fiber Network](#)
- 2 **Frank Cunnane**, *Cristini North America* [Sheet Formation Control and Cost Savings Using Agile Controls](#)
- 3 **Scott Grillo**, *Paperchine Inc.* [The Effect of Refining on Yield Stress of Kraft Pulps](#)

PF9: Improving Sustainability with QCS Lifecycle Management

Moderator: **David Moore**, *SAPPI*

- 1 **Kevin Dale Starr**, *ABB* [QCS Automation Service Solutions for the 21st Century](#)
- 2 **David Jackson Maddux**, *Technology Service Professionals* [Improving Sustainability with QCS Life Cycle Management](#)
- 3 **Greg Parsons**, *ABB* [Parts Programs to Manage and Extend Control System Life Cycles](#)

Coating & Graphic Arts Program

C1: Coating Opening & Keynote

Dan Malenke, *PKGPro LLC*

[Fiber Based Packaging - Collaborative Solutions for Packaging Sustainability](#)

C2: Coating Best Papers I

Moderator: **Tim Bradley**, *Omya*

1 **Elliott Echt**, *DuPont Pkg. & Ind. Polymers*

[New Ionomer Dispersion Technology for Grease Barrier Coatings](#)

2 **Finley Richmond**, *University of Maine*

[The Use of Cellulose Nanofibers in Paper Coating Formulations \(Best Student Paper Candidate\)](#)

3 **Thomas Boyle**, *Styron*

[Influence of Topcoat Applicator Technology on Starch Migration from Precoat to Topcoat](#)

C3: Coating Best Papers II

Moderator: **Amy Anttila**, *Intertape Polymer Group*

1 **Daniel Gerard**, *Omya*

[On the Stabilization of Calcium Carbonate Slurries for High pH and Ion Content Coating Colours](#)

2 **Harrison Gates**, *University of Maine*

[Force Measurements for Coating and Printing of Webs \(Best Student Paper Candidate\)](#)

3 **Martti Toivakka**, *Abo Akademi University*

[Molecular and Microscopic Level Understanding of Coating Strength](#)

C4: Advances in Materials to Improve Paper & Board Quality

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

1 **Pablo Garcia**, *Kuraray*

[Enhanced Polyvinyl Alcohol as a Barrier Paper Coating for Food Packaging](#)

- 2 **Hak-lae Lee**, *Seoul National University* [Effect of Coating Binder on Fold Cracking of Coated Paper](#)
- 3 **John A. Roper**, *Dow Chemical* [Advanced Materials Enabling New Specialty Paper Concepts - Acrylic Bead Technology](#)
- 4 **John A. Roper**, *Dow Chemical* [Advanced Materials Enabling New Specialty Paperboard Concepts - Hollow Sphere Pigment Technology](#)

C5: New Developments in Print Technology

Moderator: **Prakash Malla**, *Thiele Koalin Company*

- 1 **Peter Dahlvik**, *Omya* [Optimizing the Flexo Print Quality of Single Coated Board](#)
- 2 **Christophe Bastien**, *Bekaert* [Coated Paper Quality as Innovative Approach to Understanding and Optimizing Drying Strategy](#)
- 3 **Gaurav Pranami**, *Dow Chemical* [Opaque Polymers as Alternatives to TiO₂ Pigment for Making White Aqueous Graphic Arts Inks](#)

C6: Printing Technology Update - Coatings, Inks and Curing

Moderator: **Jim Niemiec**, *NewPage*

- 1 **Matt Barlow**, *Coatings and Adhesives Corporation* [Aqueous and Varnish Coatings](#)
- 2 **Rosalyn Waldo**, *Allnex* [Energy Curing Coatings and Inks](#)
- 3 **Erich A. Midlik**, *Prime UV-IR* [Drying and Curing Hardware Systems](#)
- 4 **Nancy Plowman**, *Nancy Plowman Associates* [Printer Perspectives of Overprinting and Coating](#)

C8: Coating Process Industry Trends for Paper, Packaging Board & Specialty Paper Manufacturing

Moderator: **Greg Welsch**, *Styron*

- 1 **Pam Hynnek**, *Valmet*
- 2 **Mark Sorenson**, *Andritz*
- 3 **Andy Broomfield**, *ABB*
- 4 **Ilkka Mustonen**, *ACA Systems Oy*

C9: New Developments in Coating Operations Technology

Moderator: **Manoj Dixit**, *Domtar*

- 1 **Per Emilsson**, *UMV Coating Systems AB* [Zero Dwell Coating with Polymeric Tip without Vortex for Better Profiles and Coverage](#)
- 2 **Kari Hilden**, *Papertech Inc.* [Improving Coater Runnability with Web Inspection and Web Monitoring Cameras](#)
- 3 **Chris Woron**, *Ryeco, Inc.* [Automated Stripe and Defect Marking Technologies Used to Improve Productivity and Profitability](#)

New Technology Showcase

NTS 1: Coating & General Topics

- 01 **Ilkka Tamminen**, *FP Pigments* [Novel Inkjet Pigment for Fast Ink Drying and Improved Printing Efficiency](#)
- 02 **Joy Bryant**, *BASF* [High Strength Coating Binders Enabling Significant Reductions in Coating Costs](#)
- 03 **Chris Lazaroff**, *Coatex* [Rheocarb™ Platform - A Breakthrough in Rheology Modifiers for Paper & Board Coatings](#)
- 04 **Ilkka Mustonen**, *ACA Systems* [DWR - Dynamic Water Retention Analyzer for Coating Colors](#)
- 05 **Linda Kim-Habermehl**, *Omni Tech International* [Use of Bio-Based Materials in Forest Products Applications](#)
- 06 **Stephan Defrance**, *Bekaert* [Control & Best Practice with Infrared Technologies](#)

- 07 **Craig McCollum**, *Clouth Sprenger* [Increasing Machine Efficiency When Converting From Steel Coater Blades to Long Life Blades](#)
- 08 **Mikko Rantanen**, *MoveRoll* [Innovative Kicker and Receiver from MoveRoll Pressure Conveyors for Controlled Handling of Paper Rolls](#)
- 09 **Albert Middeke**, *Arnold Company* [Opening Boxcars Safely & Efficiently](#)
- 10 **Mark Sherrill**, *TGM Turbine Generator Maintenance* [Running Condition Assessments for Optimized Availability](#)

NTS 2: Papermaking Topics

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

- 01 **Mike Wallace**, *Akzo Nobel* [Novel Engineered Cellulose for Significant Board Strength Gains](#)
- 02 **Jason Zyglis**, *Cognex* [Innovations in Web Imaging Video Review, Storage and Indexing to Enable Greater Accuracy and Rapid Recipe Changes to Maximize Customer Quality](#)
- 03 **Luc Farly**, *Xerium* [Formsoft - Optimized Forming Performance](#)
- 04 **Dean Devries**, *Archroma* [Leucophor SKH Liquid](#)
- 05 **Zach Manges**, *DuBois Chemicals* [Cleaning for High Speed Machines](#)
- 06 **John Turner**, *Emerson Process Management* [Emersons New CSI 2140 Machinery Health Analyzer provides a Complete Tool for Assessing & Preserving Mechanical Equipment Health](#)
- 07 **Rick Van Fleet**, *BTG* [Single Point Kappa SPK-5500](#)
- 08 **Petri Karhula**, *Procemex* [Pick-up Web Inspection System](#)
- 09 **Timo Haverinen**, *EV Group* [EV Online Cleaning System for Papermachine Wet Ends and Stock Preparation Systems](#)
- 10 **Elwyn Green**, *TSP* [QCS & Automation Services Solutions](#)

Tissue360° Forum Program

T01: Tissue Market Overview

Moderator: **Ken Patrick**, *Tissue360°*

- 1 **Esko Uutela**, *RISI* [Outlook for Global Tissue Business and Trends in North America](#)
- 2 **Gary Rudemiller**, *Wausau* [Keynote Address](#)
- 3 **Bill Sleeper**, *Georgia-Pacific Professional, Retired* [Creating a Cross-Functional Culture of Innovation](#)

T02: Base Sheet I - Fiber Usage and Supply
Moderator: **Dave Anderson**, *SCA*

- 1 **William Moore**, *Moore & Associates* [The World's Recovered Paper Supply for Tissue Manufacturing](#)
- 2 **David Jones**, *Buckman* [The Challenges of Recycled Furnish in the Manufacture of Premium Tissue Products](#)
- 3 **Pascal Rivard**, *Ashland* [Novel Enzymatic Approach Offers New Possibility for Recycled Tissue & Towel Manufactures](#)

T03: Tissue Properties Workshop I - Overview of Testing Methods
Moderator: **David Loebker**, *Procter & Gamble*

- 1 **Steve Berg**, *Thwing-Albert Instrument Company*; **Charles Bohanan**, *TAPPI*; **Todd Popson**, *Technidyne* [Overview of Testing Methods](#)

T04: Base Sheet II - Insights into Sheet Structure
Moderator: **Gary Furman**, *Nalco*

- 1 **Hannes Vomhoff**, *Innventia* [Investigation of the Dynamic Liquid Absorption Properties of Kitchen Towel](#)
- 2 **Gary Furman**, *Nalco* [How Does Your Crepe Structure Measure Up?](#)
- 3 **Phichit Somboon**, *Kasetsart University* [Development of Laboratory Wet Creping Method to Evaluate and Control Pulp Quality for Tissue](#)
- 4 **Bruce Janda**, *InnovaSpec* [Sheet Structure Process Effect on Tissue Properties](#)

T05: Tissue Properties Workshop II - Test Methods in Development

Moderator: **Todd Popson**, *Technidyne*

- 1 **Michael J. Kocurek**, *Professor Emeritus, North Carolina State University*; **Tim Patterson**, *Ashland Water Technologies*; **Jeff Lundeen**, *Georgia-Pacific*; **David Loebker**, *Procter & Gamble*; **Rodger Segelstrom**, *Technidyne* [Tissue Test Methods in Development](#)

T06: Base Sheet III - Chemistry

Moderator: **Brian Hayes**, *Siemens*

- 1 **Joseph Mahoney**, *Ashland Water Technologies* [High Performance Creping Adhesive](#)
- 2 **Richard Riehle**, *Ashland Water Technologies* [PAE Wet Strength Resins for Improved Health and Sustainability](#)
- 3 **Chen Lu, Clay Campbell, Lucyna Pawlowska**, *Kemira* [Improved Creping Operational Efficiency and Sheet Properties](#)

T07: Tissue Properties Workshop 3 - Laboratory Measurement Control

Moderator: **Ann Timberlake**, *Consultant*

- 1 **Jeff Lundeen**, *Georgia-Pacific*
- 2 **Oliver Renier**, *IPS Testing*

T08: Tissue Converting Innovations I

Moderator: **Kevin Brennan**, *Ashland Water Technologies*

- 1 **Manrico Giusfredi**, *Fabio Perini* [Evolutions in Tissue Converting](#)
- 2 **Justen Smith**, *Futura* [Advanced Documentation System Revolutionizes Maintenance and Training](#)
- 3 **Massimo Capisani**, *Pulsar America* [Conveying of Tissue Products - Intelligent Integration for the Converting Lines](#)

T09: Tissue Converting Roundtable

- 1 **Soile Kilpi**, *Poyry* [Converting Market Overview](#)
- 2 **William Nelson**, *E80*

3 **Peter Augustine, Fabio Perini**

T10: Base Sheet IV - Tissue Manufacturing Technology

Moderator: **Jeff Peters, BTG**

1 **Soren Eriksson, Valmet** [Advanced Belt Winding on TM Reel for Improved Converting Efficiency](#)

2 **Ed Graf, Consultant** [Air Dried Tissue, Commercial Installations and Results](#)

3 **Bob Carney, Xerium** [Using Embedded Sensors in Press Rolls to Improve Tissue Machine Efficiency](#)

4 **Tim Rye, Ryeco, Inc.** [Advances in Methods of Wire and Felt Guiding on a Tissue or Paper Machine](#)

T11: Yankee Operations and Mill Safety

Moderator: **Craig Hall, Clearwater**

1 **Greg Ford, TalentClick** [Tissue Mill Safety - Personality a Leading Indicator of Human Error and Risk](#)

2 **Jean Desharnais, Enerquin Air** [High Temperature vs High Impingement Velocity in Yankee Hoods](#)

3 **Elmar Wind, Andritz** [A Creative Solution for Large Yankee Applications](#)

NETInc (Nonwovens) Sessions

N1: NETInc Opening Session & Keynote

Moderator: **Uday Raval, Kimberly-Clark**

1 **Bryan Haynes, Kimberly-Clark** [Nonwoven Materials - Challenges for the Medical and Consumer Products Sector](#)

2 **Steve Ogle, INDA** [Flushability - Past Present & Future](#)

N2: Nonwovens Processes Tutorial

- | | | |
|---|--|---|
| 1 | Dr. Royall Broughton , <i>Auburn University</i> | Carding, Air Lay, Garnet, Needle Punch, Hydro Entanglement, & Adhesive Bonding |
| 2 | Dr. Gajanan Bhat , <i>University of Tennessee</i> | Spunbond, Meltblown, Electrospinning, Calendar Bonding and New Technological Developments |

N3: Sustainability

Moderator: **Charles Fifelski**, *Stryon*

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|---|--|--|
| 1 | Glenn Brower , <i>ECOSE Technology</i> | Developing a Biobased Formaldehyde-Free Binder for Nonwovens & Filtration |
| 2 | Janet O'Regan , <i>Cotton Inc.</i> | Cotton & Sustainability for the Nonwovens Supply Chain |
| 3 | Juuso Johannes Rantanen , <i>Aalto University</i> | Microfibrillated Cellulose as a Component in Novel Nonwoven Composite Structures |

N4: Process Technology

Moderator: **Jim Robbins**, *Omnova*

- | | | |
|---|---|---|
| 1 | Paul Sawhney , <i>U.S. Department of Agriculture</i> | The Hydroentangled Greige Cotton Nonwoven Fabrics may be Spared from the Traditional Scouring in Bleaching-Drying |
| 2 | Jeff Taylor , <i>Crafts Technology</i> | Can Tungsten Carbide Cut It |
| 3 | Jim Pigott , <i>MAJIQ, Inc.</i> | Roll Based MES System-Impact on Bottom Line Results |
| 4 | Jochen Koenig , <i>Schenk Vision</i> | Advances in Automated Optical Defect Inspection and Formation Analysis for Nonwovens |

N5: Emerging Technology

Moderator: **John Jacquin**, *Ineos*

- | | | |
|---|---|---|
| 1 | Rajan Vempati , <i>ChK Group, Inc.</i> | Antibacterial Nonwovens using Nanophase MnOxide |
| 2 | Laura Frazier , <i>SNS Nano Fiber Technology</i> | Novel Applications for Nanofiber Nonwovens |
| 3 | Genevieve Garland , <i>The Nonwovens Institute</i> | What's in the Text? Using Tech Mining for Nonwoven Market Intelligence and Technology Forecasting |

N6: Binders & Additives

Moderator: **Maureen Nunn**, *Dow*

- 1 **Chris Sharpe**, *ESP Foam Control* [Process Foam - What Why & How to Attack](#)
- 2 **Christopher Baron**, *Ashland Water Technologies* [Biocides in White Water Systems - Maximizing System Performance While Minimizing Costs](#)

N7: Nanotechnology

Moderator: **Seshadri Ramkumar**, *Texas Tech University*

- 1 **Timothy Robson**, *Hills Inc.* [Nanofiber Melt Spinning Technologies](#)
- 2 **Gang Sun**, *University of California* [Fabrications & Functionalizations of Thermoplastic Nano Fibers and Nanofibrous Membranes](#)
- 3 **Dr. Gajanan Bhat**, *University of Tennessee* [Structure & Properties of Melt Blown Submicron Fiber Nonwovens from Polypropylene](#)
- 4 **Wang Xiwen**, *South China University of Technology* [A Non-Based Multilayer Separator for Lithium Rechargeable Battery](#)

N8: Filtration

Moderator: **Christina Ruiz**, *Hollingsworth & Vose*

- 1 **Dr. Jayesh Doshi**, *eSpin Technologies* [High Performance HVAC Air Filtration with Nanofiber](#)
- 2 **Pengfei Zhao**, *Auburn University* [Sea Salt Particles Filtration using Novel Nonwoven Media at Various Relative Humidities](#)
- 3 **Seshadri Ramkumar**, *Texas Tech University* [Filtration Efficiency of Submicron Filters](#)
- 4 **Vincent Kandagor**, *University of Tennessee* [Processing Structure and Properties of Melt Blown Polyetherimide](#)

N9: Modeling

Moderator: **Rajeev Chhabra**, *Procter & Gamble*

- 1 **Yalcin Yesil**, *Bartın University* [Effect of Quenching on the Structure and Properties of Melt Blown Polyurethane Nonwovens](#)
- 2 **Rajeev Chhabra**, *Procter & Gamble* [Conduction and or Convection - Is there a Preferred Mode of Heat Transfer in Moving Porous Webs](#)

- 3 **Dr. E. Shim, *The Nonwovens Institute*** [Process Structure Property Relationship of Melt Spun PRA Filaments in the Spunbond](#)

OpEx Reliability Workshop

OPEX1: Improving Production Reliability

Moderator: **Ken Patrick, TAPPI**

- 1 **Christer Idhammar, *IDCON*** [Reliable Production a Cornerstone in Operational Excellence](#)
- 2 **Larry Schindler, *Wausau Towel and Tissue*** [Reliability Audit-Implementation Initiative at Wausau Towel and Tissue](#)
- 3 **Allen Bowdler, *Pratt Industries*; Janie Lasik, *CrystalTek*** [Stickies Removal Cleaning](#)

OPEX2: Implementing, Applying Predictive Analytics

Moderator: **Mike Pemberton, ITT Industrial Process**

- 1 **Mario Montag, *Predikto*** [How to Get Started with Predictive Analytics](#)
- 2 **Dragan Trivanovic, *Zellstoff Celgar*** [How Analytics of Big Data Improves Reliability](#)
- 3 **Bill Wick, *American Industrial Metrology*** [More Production and Uptime - Good PM Alignment Starts at the Wet End and Press](#)

OPEX3: Reliability Training and Management

Moderator: **John Yolton, SKF**

- 1 **Jim Davis, *Performance Consulting Associates*** [Getting Operations More Involved in Asset Reliability Management](#)
- 2 **Robert Matthews, *Royal Purple*; Christen Howard, *RockTenn*** [Getting the Most Back From Your Reliability Training](#)
- 3 **Bobby Allen, *Allied Reliability Group*** [Managing a Preventative Maintenance Program in the Most Effective and Efficient Manner Possible](#)

OPEX4: Optimizing Asset Management

Moderator: **Ken Patrick, TAPPI**

- 1 **David Neikirk, *Allied Reliability Group*** [Managing Backlogs with Practical, Proven Techniques](#)
- 2 **Lance Bisiger, *Allied Reliability Group*** [Optimizing an Asset Health Management Program with Simple Techniques](#)

3 **Kate Kerrigan**, *Allied Reliability Group* [Turning KPIs and Metrics into a Reliability Dashboard](#)

RPTA Production-Technical Seminar

RPTA1: Developments in Recycled Fiber Food Packaging

1 **Jake Handelsman**, *AF&PA* [Mineral Oil Update](#)

2 **Marko Kolari**, *Kemira* [Microbiological Impact on the Quality of Food Packaging Board - Strategies to Manage Spore Content](#)

3 **Janet Woodward**, *Buckman* [The Use of Monochloramines to Control Volatile Fatty Acids in Recycled Mills](#)

RPTA2: Fiber Quality & Supply

1 **Emily Freeman**, *Waste Management* [Technology and Processing Flexibility in Managing the Inbound Fiber Stream](#)

2 **Hannah Zhao**, *RISI* [Outlook for North American Recovered Paper Market](#)

3 **Bill Moore**, *Moore & Associates* [Recovered Paper for Paperboard Manufacture - Supply, Demand and Quality](#)

RPTA3A: Safety

1 **Linda Robertson**, *International Microbial Associates Inc.* [The Invisible Problem - Microbes and Explosive Gases](#)

RPTA3B: Multiply Machines Developments

1 **Luca Canali**, *Cristini* [New Instruments Provide Multiply Board Property Enhancements](#)

2 **Fernando Cabrera**, *FCPapel, LLC* [The New Forming Concept Applied to the Forming Box and Boxes in Continuation in Single and Multiply Paper Machines](#)

3 **Enrico Raffanti**, *Toscotec* [A New Modular Approach to Improve Drying for the Paper Industry](#)

RPTA4: Advancements in Energy Conservation

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|---|--|---|
| 1 | Paulo Rangel , <i>CoProcess</i> | Principles of Infrared Heat Transfer and its Practical Applications in the Paperboard and Boxboard Industry |
| 2 | Chuck Wunner , <i>Vooner FloGard</i> | Vacuum Dewatering Cost per Ton of Paper |
| 3 | Dick Reese , <i>Dick Reese & Associates</i> | Successful Strategies to Reduce Energy Use on Paper Machines |

Poster Session

Posters

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|----|---|---|
| 01 | Jane Hutt , <i>International Generator Technical Community</i> | Online Forum Develops into a Worldwide Generator-oriented Community of Practice |
| 02 | Jinhua Yan , <i>North Carolina State University</i> | A Novel Method for Nanoparticle Loading in Porous Cellulose Substrates |
| 03 | Renmei Xu , <i>GuangDong Industry Technical College</i> | Crosslinked PANI-Paper Composite |
| 04 | Peter Fisera , <i>Procsim</i> | Continuous Online PM Real Time Simulation and Close Loop MPC Raise PM Performance |
| 05 | Petteri Paananen , <i>MUAS Fiber Laboratory</i> | Optimal Dosing Points of Starch-Simultaneous Feeding of Starch and Filler |
| 06 | Petteri Paananen , <i>MUAS Fiber Laboratory</i> | Simultaneous Feeding of the Filler and Retention Agent-Effect of the Shear Rate |
| 07 | Rachel Strelow , <i>University of Wisconsin - Stevens Point</i> | Automated Fiber Blending System |
| 08 | Jose Francisco Negrete Alvarez , <i>Universidad de Guadalajara</i> | Adsorption Effect of Polyelectrolytes on Recycled Fibers |
| 09 | Melissa Tatiana Andreuccetti , <i>State University of Campinas</i> | Characterization of Eucalyptus Black Liquor and Correlation of Their Physico-chemical Properties |
| 10 | Phichit Somboon , <i>Laboratory of Pulp and Paper Technology, Kasetsart University</i> | Cracking Potential and Micro-Elongation of Linerboard Along the Operating Window of Jet or Wire Ratio |

- 11 **Advesh Gandwar**, *Advanced Enzyme Technologies* [Advances in Enzymatic Deinking of Recycled Paper](#)
- 12 **Peter Ratto**, *Innventia* [Improved Moisture Resistance of NFC Films by Printing a Water Barrier](#)
- 13 **Jarmo Kahala**, *Savcor* [Creating Quality Index by Combining Process and Quality Measurements in Order to Enhance Process Performance](#)