

PIMA Management (M)

Track Manager: Mike Farrell, *Graphic Packaging*

Monday, April 24

8:30 am - 10:00 am

M1 - Keynote - Marcus Shingles

Session Chair: **Mike Farrell**, *Graphic Packaging*

Exponential Innovation Trends, How They Will Disrupt Industries, and Business Strategies to Navigate the Change
Marcus Shingles, *XPRIZE*

10:15 am - 11:30 am

M2 - Executive Discussion

Session Chair: **Mike Farrell**, *Graphic Packaging*

1:30 pm - 3:00 pm

M3 - What Does Renew, Rethink, Redefine Mean to a YP?

Session Chair: **Steve Tremont**, *BASF*

- 1 **Joe Henderson**, *Domtar*
- 2 **Kate Collins**, *Graphic Packaging*
- 3 **Katie Buonpane**, *BASF*

3:30 pm - 5:00 pm

M4 - Women In Industry Panel: Creating a Leadership Legacy

Session Chair: **Heather Jennings**, *Bio Huma Netics, Inc.*

Panelists:

Sarah Dawkins, *Solenis*
Shan Cooper, *WestRock*

Tuesday, April 25

8:00 am - 10:00 am

M5 - Sustainability

Session Chair: **Roger Smith**, *Domtar*

10:30 am - 12:00 pm

M6 - Safety

Session Chair: **Steve Smith**, *Domtar*

Thomas Evans, *Training Logic, Inc.*

1:30 pm - 3:00 pm

M7 - Superintendents Roundtable *Organized by Couch Pit University*

3:30 pm - 5:00 pm

M8 - Workforce Development

Session Chair: **Steve Farmer**, *Fisher Arnold*

Wednesday, April 26

8:00 am - 10:00 am

M9- State of the Industry

Session Chair: **Matt Elhardt**, *Fisher International*

Speakers:

- 1 **Tedd Powers**, *Fisher*
- 2 **Mark Lewis**, *Sustainable Fiber Technologies*
- 3 **Peter Berg**, *McKinsey*

10:30 am - 12:00 pm

M10 - Mill Managers Roundtable

Session Chair: **Brian Duffy**, *Nalco Water*

Speakers:

- 1 **Murray Hewitt**, *Cascades, Inc. - Greenpac NY Mill*
- 2 **Bill MacPherson**, *Domtar - Kingsport, TN Mill*
- 3 **Chuck Legatt**, *Liberty Paper - Becker, MN Mill*
- 4 **Kathy Collins**, *Domtar - Rothschild, WI Mill*

1:30 pm - 3:00 pm

M11 - Introduction to Work Life balance: Finance, Social, and Professional

Session Chair: **Sarah Garchinsky**, *Solenis*

- 1 **Sarah Dawkins**, *Solenis*

Coating & Graphic Arts (C)

Track Manager: **Steven Bloembergen**, *EcoSynthetix*

Monday, April 24

1:30 pm - 3:00 pm

C1 - Concepts in Functional Coating

Session Chair: **Don Hiscock**, *CP KELCO*

- 1 Contrasting Underlying Mechanisms of Different Barrier Coatings Types
Bryan McCulloch, *The Dow Chemical Company*
- 2 The Role of Base Substrate in Barrier and Convertability Properties of Water Based Barrier Coated (WBBC) Paper Board and Paper
Päivi Miettinen, *CH-Polymers Oy*
- 3 Multi Layers or Drying Strategy to Avoid Pinholes by Sustainable Barrier Coating?
Per Emilsson, *UMV Coating Systems AB*

3:30 pm - 5:00 pm

C2 - Barrier Coating Application Techniques

Session Chair: **Femi Kotoye**, *Trinseo LLC*

- 1 Curtain Coating for Paper Industry – Single and multilayer
Harald Döll, *TSE Troller AG*
- 2 Slot Coating of Nanocellulose for Barrier Applications
Martti Toivakka, *Abo Akademi University*
- 3 Conductive Carbon-nanocellulose Coatings on Paper
Vinay Kumar, *Abo Akademi University*
- 4 Determination of Repulpability of Talc-Filled Biopolymer Dispersion Coatings and Optimization of Repulped Reject for Improved Material Efficiency by Tailoring Coatings
Katriina Mielonen, *Lappeenranta University of Technology*

Tuesday, April 25

8:00 am - 10:00 am

C3 - Coating Operations Success Stories

Session Chair: **Martti Tuomisto**, *RTS Alliance*

- 1 Midwestern U.S. Case Study on Process Air Fans Underperforming, and Their Impact on Coated Paper Production
Don Cesario, *Valmet*
- 2 Liberty Paper's Dreamworks Coating Solutions, Becker, Minnesota: Providing Opportunities to Enhance Box Performance through the Use of Pre-coated Liners
Brian Meyer, *Liberty Paper, Inc.*
- 3 A Water-based Coater at Sustainable Fiber Solutions, Covington, Tennessee: Focusing on PE Replacement
John Kokoszka, *Sustainable Fiber Solutions*
- 4 Coating & Graphic Arts Paper Quality & Production Continuous Improvement System
Pete Angle, *ISRA VISION*
- 5 A Midwestern U.S. Coated Mill Case of Paper Defect Detection on Multiple Off-Machine Specialty Paper Coaters
Petri Karhula, *Procemex Ltd*
- 6 Using Cover Technology to Improve Calender Performance
Bob Carney, *Xerium Technologies*

10:30 am - 12:00 pm

C4 - Materials for Barrier Coatings

Session Chair: **Prakash Malla**, *Thiele Kaolin*

- 1 Polyolefin Based Waterborne Barrier Coatings
Joshua Katzenstein, *The Dow Chemical Company*
- 2 Influence of Addition Level and Type of Latex on the Properties of Cellulose Nanofibre Films
Etienne Lazarus, *Trinseo*
- 3 Effects of Montmorillonite, Kaolinite, Protein, and AKD on Nanocellulose-based Barrier Coating Packaging
Lokendra Pal, Preeti Tyagi, Martin Hubbe, *North Carolina State University*
- 4 Coating & Graphic Arts Paper Quality & Production Improvement System
Pete Angle, *ISRA VISION*

1:30 pm - 3:00 pm

C5 - Print Technology

Session Chair: **Jim Niemiec**, *Verso Co*

- 1 TBD
Invited Speaker
- 2 A Memory Effect in Sheet-Fed-Offset Printing
Wolfgang Bauer, Wolfgang Fuchs, Michael Dauer, Ulrich Hirn, *Graz University of Technology*
- 3 TBD
Invited Speaker

3:30 pm-5:00 pm

C6 - Hagemeyer Happy Hour

Session Chair: **Steve Ottone**, *OMYA*
& **Al Osgood**, *SAPPI*

Wednesday, April 26

8:00 am - 10:00 am

C7 - Fundamentals of Coating Structure

Session Chair: **Randy Branston**, *BASF*

- 1 Effect of Particle Shape and Size Distribution on Dewatering and Filtercake Permeability
Lisa Weeks, Doug W. Bousfield, *University of Maine*
Peter Hayes, *BASF*
- 2 Discrete Element Method to Predict Coating Failure Mechanisms
Daniel Varney, *OMYA*
- 3 The Effect of Paper Substrate on Starch and Latex Separation
Emilia Golebiowska, Douglas Bousfield, William Gramlich, *University of Maine*
- 4 Measurement of Tensile and Bending Properties of Free Standing Coating Layers
Seyyed Mohammad Hashemi Najafi, *University of Maine*

10:30 am - 12:00 pm

C8 - Novel Polymeric Materials

Session Chair: **Manoj Dixit**, *Domtar*

- 1 Water-Based Polymer for Formulating Heat Sealable, Liquid Barrier Coatings
Gary Deeter, *BASF Corporation*
- 2 Development and Performance of Enzymatically Modified Lignosulfonates as Coating Binders
Wolfgang Bauer, *Graz University of Technology*
Andreas Ortner, Gibson S. Nyanhongo, Georg Gübitz, *University of Natural Resources and Life Sciences*
Karin Hofer, Heribert Winter, Kai Mahler, *Sappi Paper Holding*
- 3 OPULUX™ Matte Finishes--- Product Offering for Graphic Arts
Yinzhong Guo, Larry Jopko, Kay Boakye Yiadom, Ryan Gaston, *The Dow Chemical Company*
- 4 TBD

NETInc (N)

Track Manager: **Maureen Nunn**, *Penn Chemical Consultants*

Monday, April 24

1:30 pm - 3:00 pm

N1 - Opening Session & Keynote

Session Chair: **Maureen Nunn**, *Penn Chemical Consultants*

- 1 New Trends In Filtration
Andrew Willis, *Hollingsworth & Vose*
- 2 Nonwoven Market Report
David Allan, *RISI*

3:30 pm - 5:00 pm

N2/T1 - Technical Textile Tutorial

- 1 **Seshadri Ramkumar**, *Texas Tech University*

Tuesday, April 25

8:00 am - 10:00 am

N3 - Nonwoven Testing Tutorial

- 1 **Roy Broughton**, *Auburn University* & **Brian George**, *Philadelphia University*

10:30 am - 12:00 pm

N4 - Fibers 1: Nano

Session Chair: **TBD**

- 1 The Status of Cellulose Nanomaterial Production for Nonwoven Applications
J.Y. Zhu, *USDA Forest Service, Forest Products Lab*
- 2 Mass Production of Polyimide Nanofiber Nonwovens for Application in Li-Ion Battery
Haoqing Hou, *Jiangxi Normal Univeristy*
- 3 Polylactic acid (PLA) Microfibers for Wet-Laid Nonwoven Processes
John Allen, *Eastman Chemical Company*

1:30 pm - 3:00 pm

N5 - Process: Web Formation

Session Chair: **TBD**

- 1 Highly Dispersible Synthetic Fibers for Use in Wet Laid Applications
Joel Pawlak, *North Carolina State University*
- 2 Air-laid Rando web formation process and its capability for different application
Shashank Shekar, *Rando Machine Corporation*
- 3 TBD

3:30 pm-5:00 pm

N6 - Sustainability

Session Chair: **John Jacquin**, *Michelman*

- 1 The Impact of Global Agricultural Practices Related to Cotton on the Environment: 2015 LCA Results
Jan O'Regan, *Cotton Incorporated*
- 2 Formaldehyde Reduction in Binders Used in Nonwovens and Textile Products: An Update on Existing and Potential New Approaches
Himal Ray, *The Dow Chemical Company*
- 3 Examining the possibility of hemp fibers for use in wipes
Danwei Xin & Brian George, *Philadelphia University*

Wednesday, April 26

8:00 am - 10:00 am

N7 - Filtration / Separation

Session Chair: **TBD**

- 1 Functionalized Nonwovens for Removal of Acidic Compounds in Filtration Systems
Elham Amirnasr, *MANN+HUMMEL*
- 2 Non-woven Composite
Wang Hao, *South China University of Technology*
- 3 Oil Sorption Behavior of Nonwoven Cotton Substrates from Oil-Water Mixture
Akshay Jain, *Texas Tech University*
- 4 An Overview of the new ISO16890 Test Standard for HVAC Filters
Amogh Karwa, *Hollingsworth & Vose Company*

10:30 am - 12:00 pm

N8 - Fibers 2: New Applications

Session Chair: **TBD**

- 1 NanoCellulose Based Composites for Wastewater Purification
Vanja Kokol, *University of Maribor*
- 2 Fiber-Based Device Building Blocks for Textile-Integrated Energy Harvesting and Communications
Max Shtein, *University of Michigan*
- 3 TBD

1:30 pm - 5:00 pm

N9 - EcoLab Tour

Session Chair: **Brian Duffy**, *Nalco Water*

Papermaking - Best Practices (PM)

Track Manager: **Jeff Reese**, *International Paper*

Monday, April 24th

1:30 pm - 3:00 pm

PM1 - Best Practices Kick Off

Session Chair: **Jeff Reese**, *International Paper*
& **Maja Mejsner**, *PMP - Paper Machinery Producer*

3:30 pm - 5:00 pm

PM2 - Best Practices in Papermaking Panel Discussion

Session Chair: **Jeff Reese**, *International Paper*

Tuesday, April 25th

8:00 am - 10:00 am

PM3 - Best Practices in Stock Prep & Stock Approach Panel Discussion

Session Chair: **Jon Kerr**, *Miami University*

10:30 am - 12:00 pm

PM4 - Best Practices in Papermaking Systems

Session Chair: **Dick Reese**, *Wisconsin Focus On Energy*

- 1 Best Practices - Steam System Design and Operation for Improved Reliability and Energy Utilization
Mike Soucy, *Kadant*
- 2 Papermaking Best Practices with Vacuum-Dewatering Systems
Doug Sweet, *Doug Sweet & Associates, Inc.*
- 3 Best Practicing in Doctoring
Aitor Lizarraga, *Lantier Solutions*

1:30 pm - 3:00 pm

PM5 - Tools to Aid Your Best Practices

Session Chair: **Paula Hajakian**, *USG*

- 1 How Thermography can be a Valuable Tool for Papermakers
Robin Thon, *Albany International*
- 2 Reduced Downtime and Increased Felt life Using Online Monitoring for Optimized Felt Cleaning
Edward Griffin, *Nalco Water - An Ecolab Company*
- 3 Best Practices can be Quantified on Grade Changes, Energy Saving Projects, and Process Control Parameters
Frank Cunnane, *Cristini NA*

3:30 pm - 5:00 pm

PM6A - Papermaking Roundtable

Session Chair: **John Neun**, *John A. Neun, LLC*
& **Dave Burton**, *AstenJohnson*

PM6B - Tissue Teaser

Session Chair: TBD

- 1 Strong Feelings for Softness: A Comparative Study of US Towel Production
Gary Shelp, *Georgia-Pacific Chemicals*
- 2 Dynamics of the Creping Action of Tissue Paper – Adhesion Variations and Blade Vibrations
Pyry Hämäläinen, *Karlstad University*

Wednesday, April 26th

8:00 am - 10:00 am

PM7 - Success Stories

Session Chair: **Martti Tuomisto**, *RTS Alliance LLC*

- 1 Midwestern U.S. Case Study on Process Air Fans Underperforming, and Their Impact on Paper Production
Don Cesario, *Valmet*
- 2 Energy and Water Savings with Variable Speed Vacuum Blowers on a Coated Bleached Board Machine
Jussi Lahtinen, *Runtech Systems Ltd*
- 3 Case Studies in Runnability Rebuild Projects
Dave Young, *Enerquin Air*
- 4 Paper Defect Detection Upgrade to Improve Liquid Packaging Board Quality
Petri Karhula, *Procemex Ltd*

10:30 am - 12:00 pm

PM8 - Tips from the Experts on Troubleshooting Paper Machines Panel

Session Chair: **Tom Rodencal**, *Tom Rodencal & Associates*

- 1 **Gary Nyman**, *International Paper*
- 2 **Brad Bowman**, *Kapstone Kraft Paper*
- 3 **Ricky Loveland**, *Kemira*
- 4 **Jacques Perrault**, *Cascades*
- 5 **David Burton**, *AstenJohnson*

1:30 pm - 3:00 pm

PM9 - Rebuild Best Practices

Session Chair: **Gary Nyman**, *International Paper*

- 1 A Successful Project Execution in P&P – Behind the Scenes, Discover the Dark Side of the Moon
Maja Mejsner, *PMP - Paper Machinery Producer*
- 2 Heavy Up and Slow Down a Machine
Todd Varner, *Jacobs*
- 3 Utilization of Laser Scanning and 3-D Modeling in Paper Machine Rebuilds
Brianah Morse, *Jacobs Engineering*

3:30 pm - 5:00 pm

PM10 - Papermaking Best Practices Wrap-Up Roundtable

Session Chair: **Jeff Reese**, *International Paper*

Papermaking Additives (PA)

Track Manager: **Scott Rosencrance**, *Kemira*

Monday, April 24th

1:30 pm - 3:00 pm

PA1 - Productivity

Session Chair: **Darren Swales**, *Kemira*

- 1 Intro to Additives
- 2 Low energy CTMP in strong and bulky paperboard plies
Maurice Rizcallah, *Buckman North America*
- 3 Impact of Conductivity on Paper/Board Machine Performance and Stability – Review and New Experiences
Lebo Xu, *WestRock*

3:30 pm - 5:00 pm

PA2 - Process Optimization

Session Chair: **Larry Anker**, *Solenis*

- 1 Rethinking Best Practices, Felt Cleaning and Conditioning
Jay Sambs, *DuBois Chemicals*
- 2 PCA - The chemical doctoring system
Christoph Wassmer, *CTP GmbH*

Tuesday, April 25

8:00 am - 10:00 am

PA3 - Strength

Session Chair: **Leslie McLain**, *FiberLean*

- 1 Strength Chapter Overview
Steve Broschart, *Solenis Inc.*
- 2 Using Real-time Predictive Modeling in Strength Properties
Gary Hopkins, *ProcessMiner Inc*
- 3 Usage of Fines-enriched Pulp to Increase Strength in CTMP
Hannes Vomhoff, *Innvenita AB*
- 4 Achieving High Strength Targets in Packaging
Jack Block, *Solenis Inc.*

10:30 am - 12:00 pm

PA4 - Recycle in Packaging

Session Chair: **Rosy Covarrubias**, *Buckman North America*

- 1 Novel Starch Saving Program Improves Sustainability in Board Manufacturing Through the Reuse of Recycled Fiber Starch
Jaako Ekman, *Kemira*
- 2 Effective Utilization of Recycled Fiber in Virgin Packaging
Brian Altherr, *Solenis Ilc*

1:30 pm - 3:00 pm

PA5 - MFC

Session Chair: **Joe Mahoney**, *Solenis Inc.*

- 1 Molecular Cellulose as Additives in Papermaking
Howard Wang, *University of Maryland, College Park*
- 2 Cellulose Microfibril Surface Application on Fine Paper, Using Different Base Sheet Freeness Levels
TBD, *University of Maine*
- 3 Applications of Co-processed Microfibrillated Cellulose and Mineral in Packaging
Jonathan Phipps, *FiberLean Technologies Ltd.*

3:30 pm - 5:00 pm

PA6 - Injection Technology

Session Chair: **Darren Swales**, *Kemira*

- 1 Possible Benefits of Adding Retention Aids as well as Cationic Starch for Dry Strength Very Close to the Headbox
Magnus Gimåker, *Innventia*
- 2 Dosing of Wet End Additives in Premixed Pares and Groups in a Flash Mixing Reactor Challenges Old Rules with Great Economical Benefits
Jouni Matula, *Wetend Technologies Ltd*

Wednesday, April 26

8:00 am - 10:00 am

PA7 - Foam Technology Seminar 1: The State of Foam Forming Technology

Session Chair: **Erkki Hellen**, *VTT Technical Research Center of Finland*

- 1 Chemical Interactions in Fibrous Foams
Orlando Rojas, *Aalto University*
- 2 On-line Analysis of Bubble Size in a Headbox and Its Relation to Web Characteristics
Hannu Eloranta, *Pixact*
- 3 Fast Flash Mixing in Generation of Micro Air Bubbles for Foam and Process Dynamics in Foam Forming
Jussi Matula, *Wetend Technologies*
- 4 PVOH as Foaming Agent in Foam Formed Paper
Jens-Mikael Gottberg, *Kuraray*
- 5 Maintaining Bulk with New Foam Pressing Solutions
Riku Pihko, *VTT*

10:30 am - 12:00 pm

PA8 - Foam Technology Seminar Part 2

Session Chair: **Bruce Janda**, *InnovaSpec*

- 1 Progress in Foam Forming Technology
Harri Kiiskinen, *VTT*
Erkki Hellén, *VTT*
- 2 Foam Forming Technology Folding Box Board Focused Developments
Daniel Bunker, *Metsä Board*
- 3 Strength Solutions for Foam Formed Webs
Juha Lindfors, *Kemira*

1:30 pm - 3:00 pm

PA9 - Classical Additives

Session Chair: **Steve Boone**, *Bercen Inc.*

- 1 Towards a Mechanism for Surface Hydrophobization of Paper
Frida Iselau, *Chalmers University of Technology/Kemira*
- 2 Rethinking Raw Water Preparation Toward More Efficient Paper-making
Elisa Luth, *Nalco Water An Ecolab Company*
- 3 Effective Biofilm Control for Maximized Runability with Minimized Corrosion Concerns Monitored On-line
Mark Nelson, *Kemira*

3:30 pm - 5:00 pm

PA10 - Additives Roundtable & Wrap Up

Session Chair: **Scott Rosencrance**, *Kemira*

Process Control & Fluid Fundamentals (PF)

Track Managers: Process Control, **Kerry Figiel**, *International Paper*;
& Fluid Fundamentals, **Paul Krochak**, *Innventia AB*

Monday, April 24

1:30 pm - 3:00 pm

PF1 - Drier Web

Session Chair: **John Xu**, *AstenJohnson*

- 1 Continuous Pressure Forming: Shoe-Blade Forming for Publication Grades
Vaughn Wildfong, *Paperchine*
- 2 The Effect of Press Nip Geometry and Web Temperature on Dryness, Density and Paper Properties
Paul Krochak, *Innventia AB*
- 3 Numerical Simulation of Wet-pressing Process by Using Lattice-Boltzmann Lattice-Spring Model
Dewei Qi, *Western Michigan University*

3:30 pm - 5:00 pm

PF2 - Renewing QCS Applications

Session Chair: **Dave Worzalla**, *International Paper*

- 1 New Measurements on the Paper Machine and Coater
Mark Crable, *Crable Engineering LLC*
- 2 Reduction of Twist on Board Machines
John Shakespeare, *Honeywell*
- 3 Management of Dimensional Stability
Seyhan Nuyan, *Valmet*

Tuesday, April 25

8:00 am - 10:00 am

PF3 - Rethinking Analysis Techniques and Statistics for Process Variability

Session Chair: **Shih-Chin Chen**, *ABB*

- 1 Online Profile Spectral View for Process Troubleshooting
Barry Beyer, *SAPPI*
- 2 Paper Machine Process Variability Improvements from Digital Technology Evolution
Tim Murphy, *ABB*
- 3 The New TIP1101-01, Adding Power and Simplicity to Reel Statistics
Kerry Figiel, *International Paper*
- 4 Placeholder

10:30 am - 12:00 pm

PF4 - Applications of Microfibrillated Cellulose in Papermaking

Session Chair: **Paul Krochak**, *Innventia*

- 1 CNF Production for Various End-use Applications and a More Source Efficient Paper/Board Industry
Eva Ålander, *Innventia*
- 2 Surface Application of Microfibrillated Cellulose for Sheet Quality Improvement
Marc Foulger, *GL&V USA Inc*
- 3 TENCEL(R) EF - A Novel Fiber for Specialty Papers
Stephan Kulka, *Lenzing AG*

1:30 pm - 3:00 pm

PF5 - Paper Micro-structure

Session Chair: **Jordan MacKenzie**, *University of British Columbia*

- 1 Pore-scale Imaging and Modeling of Water-based Ink Setting Process on Coated Paper
Hamed Aslannejad, *Utrecht University*
- 2 Interactions Between Porosity, Internal Bonding and Formation in Modern Papermaking Processes
Ari Puurtinen, *Lappeenranta University of Technology*
- 3 Mechanics of Creping Process in Tissue Making: Modeling and Experiments
Kui Pan, *University of British Columbia*

PF6/RPTA5 - Rethinking the Use of Process Control to Reduce Basis Weight on Board Grades

Session Chair: **Johan Backstrom**, *Honeywell*

- 1 Using Automation to Predict and Control Board Strength Properties in Real-time
Gregory Fralic, *Valmet*
- 2 Changing Paper Grades and Product Mix Using Advanced Instrumentation
Frank Cunnane, *Cristini NA*
- 3 Simplified Model Predictive MD Control for Grade Change
Michael Forbes, *Honeywell Process Solutions*

3:30 pm - 5:00 pm

PF7 - New Technologies in Paper and Board Making

Session Chair: **Claes Holmqvist**, *Innventia*

- 1 Single-stage Hydrocyclone Fractionation of Refined Bleached Softwood Pulp
Hannes Vomhoff, *Innventia AB*
- 2 TBD
- 3 Innovative Paper-Technology For Novel Longitudinally Corrugated Layers
Marion Sterner, *Gruppo X DI X Gruppo SRL*

Wednesday, April 26

8:00 am - 10:00 am

PF8 - Fundamentals of Forming

Session Chair: **Jimmy Jong**, *FP Innovations*

- 1 How to use the Tensile Stiffness Index (TSI) Area when optimizing your Head box or Paper Machine experiences from field trials
Gunnar Linblad, *Consultant - TSO Tester Optimisation of Paper Machines*
- 2 Headbox Induced Sheet Variability
Claes Holmqvist, *RISE Bioeconomy*
- 3 Table Drainage and Press Dewatering When Cellulose Nanofibers are Applied on the Wet End
Doug Bousfield, *University of Maine*
- 4 Maximizing the Performance of Your Adjustable Fourdrinier Table with Forming Fabric Design
Michael Boettcher, *AstenJohnson*

PF9 - Best Practices for Process Control - QCS, DCS, & WIS

Session Chair: **Dave Maddux**, *Global Process Automation*

- 1 P&IDs, The neglected Best Practice
David Cifuentes, *Jedson Engineering*
- 2 DCS Migration and Maintenance Best Practices
David Worzalla, *International Paper*
- 3 Best Practices for Web Inspection in the Pulp and Paper Industry
Brian Mock, *Event Capture Systems*
- 4 Best Practices for Maintaining QCS Scanning Systems at Pristine Conditions
Shih-Chin Chen, *ABB*

10:30 am - 12:00 pm

PF10 - Redefining WIS/Machine Vision Needs and Functions

Session Chair: **Jason Zyglis**, *Ametek*

- 1 The Expanding Role of Imaging for Process, Web and Inspection Applications in the Improvement of Paper Machine Efficiency, Quality and Profitability
Paul Collette, *ABB*
- 2 How Should Operators and Mill Process Engineers Use the Information from a Vision System to Take Proactive Actions that Improve Product Quality and Machine Efficiency?
Peter Kasameyer, *Ametek*
- 3 Real-time Full Web Formation and Surface Formation Analysis
Myron Laster, *ABB*

1:30 pm - 3:00 pm

PF11 - Rethinking QCS Controls

Session Chair: **Michael Forbes**, *Honeywell International*

- 1 An Approach for Feedforward Model Predictive Control for Pulp and Paper Applications: Challenges and the Way Forward.
Moksadur Rahman, *Mälardalen University*
- 2 Active Retention Control and Reduced Ash Variability using Advanced Process Control
Abhijit Badwe, *ABB Pte Ltd*
- 3 Improving Quality and Reducing Cost Through Supercalender Advanced Finishing Technology
Keith Lantz, *Honeywell International*

Tutorials (T)

Track Manager: **Ian Journeaux**, *Georgia-Pacific*

Monday, April 24

3:30 pm - 5:00 pm

T1/N2 - Technical Textile

Seshadri Ramkuman, *Texas Tech University*

Tuesday, April 25

8:00 am - 10:00 am

T2 - Steam Showers

Philip Wells, *Lazy Steam*

10:30 am - 12:00 pm

T3 - Process Variability Troubleshooting

Paul Kristopeit, *PM Diagnostics*

1:30 pm - 3:00 pm

T4 - Low Consistency Refining Strategy Development

Arvind Singhal, *Andritz*

3:30 pm-5:00 pm

T5 - Consistency Control

Mike Hendricks, *BTG*

Wednesday, April 26

8:00 am - 10:00 am

T6 - Tissue Converting Efficiency

Session Chair: **Bruce Janda**, *InnovaSpec*

10:30 am - 12:00 pm

T7 - Fiber Prep for Tissue

Session Chair: **Xuejun Zou**, *FPIInnovations*

1:30 -3:00 pm

T8 - Tissue Vacuum Systems

Session Chair: **Andrew Smiltneek**, *Growth Solutions Consultants*

3:30 - 5:00 pm

T9 - Tissue Creping

Session Chair: **David Welsford**, *Solenis*

- 1 Yankee Hood Design and Drying Process Optimization
Alfredo Sarli, *Voith Paper Inc.*
- 2 Yankee Chemical Coating Systems
David Welsford, *Solenis*
- 3 General Creping Theory and Impacts of Blade Design on Creping
Jeff Peters, *BTG America*

Recycled Paperboard Technical Association (RPTA)

Track Manager: Joanne Arnold, RPTA

Monday, April 24

1:30 pm - 3:00 pm

RPTA1 - Stock Prep Optimization

Session Chair: **Chris Wetherford**, *Paperworks Industries, Inc.*

- 1 Process Troubleshooting in a Recycle Mill - Approach and Case Studies
Neale Fetterly, *Kadant Black Clawson*
- 2 Pulping and Screening of Printed Electronics – A Material Balance Approach to Examine Metals Partitioning in Paper Recycling and Papermaking System
James Atkinson, *Western Michigan University*
- 3 Reducing Water System Solids Loading – Disc Filter Optimization
Nicolas Reinke, *Voith Paper Inc*

3:30 pm - 5:00 pm

RPTA2 - Energy Conservation in Recycle Paperboard Mills

Session Chair: **Chris Wetherford**, *Paperworks Industries, Inc.*

- 1 GHG Emissions for Recycled Paperboard Mills
Subhash Deodhar, *Fisher International*
- 2 Energy Savings at the Paper Machine Dryer Hood
Alfredo Sarli, *Voith Paper Inc.*
- 3 Paper Machine Energy Best Practices
Dick Reese, *Wisconsin Focus on Energy*
Tim Hasbargen, *Wisconsin Focus on Energy*

8:00 am - 10:00 am

RPTA3 - Process Stability through Operational Management in Recycle Mills

Session Chair: **Richard Townley**, *Graphic Packaging International Inc.*

- 1 Management of Combustible Gases in Recycled Fiber Stock Chests
Paula Hajakian, *USG*
- 2 Process Stability through Standard Work
Todd Letherer, *PaperWorks Industries*
- 3 Operational Excellence in the Era of Big Data
Mariana Sandin, *OSIsoft, LLC*
- 4 Utilization of Data for Diagnostics and Process Transparency
Pasi Niemelainen, *Savcor Inc.*

10:30 am - 12:00 pm

RPTA4 - Maintenance Reliability

Session Chair: **Richard Townley**, *Graphic Packaging International Inc.*

- 1 Breaking the Reliability Cycle of Despair
Jay Shellogg, *Strategic Maintenance Reliability*
- 2 Gearboxes - Maintenance and Improved Reliability for the Paper Industry
Dereck Yatzook, *Artec Machine Systems*

RPTA5/PF6 - Rethinking the Use of Process Control to Reduce Basis Weight on Board Grades

Session Chair: **Johan Backstrom**, *Honeywell*

- 1 Using Automation to Predict and Control Board Strength Properties in Real-time
Gregory Fralic, *Valmet*
- 2 Changing Paper Grades and Product Mix Using Advanced Instrumentation
Frank Cunnane, *Cristini NA*
- 3 Simplified Model Predictive MD Control for Grade Change
Michael Forbes, *Honeywell Process Solutions*