

PIMA Management (M)

Track Manager: **Mike Farrell**, *Graphic Packaging*

Monday, April 24

8:30 am - 10:00 am

M1 - PaperCon Keynote - Marcus Shingles

Ballroom A

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

Uber Yourself Before You Get Kodaked

Marcus Shingles, *XPRIZE*

10:15 am - 11:30 am

M2 - Executive Panel

Ballroom A

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

Mark Kowizan, Chairman & CEO, *Packaging Corporation of America*

Tony Mollica, Executive Vice President, *WestRock*

Tony Lyons, R&D Director, *IMERYS*

Beth Cormier, Vice President - Research and Development, *Sappi Fine Paper*

1:30 pm - 3:00 pm

M3 - What Does Renew, Rethink, Redefine Mean to Young Professionals?

200GH

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

Kathleen Collins, *Graphic Packaging*

Katie Buonpane, *BASF*

Sarah Garchinsky, *Solenis*

Ana Meneses, *WestRock*

Brantley West, *Domtar*

Linea Olsson, *Greif*

3:30 pm - 5:00 pm

M4 - Women In Industry Panel: Creating a Leadership Legacy

200GH

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

Sarah Dawkins, *Solenis*

Shan Cooper, *WestRock*

Steve Smith, *Domtar*

Humphrey Moynihan, *WestRock*

Tuesday, April 25

8:00 am - 10:00 am

M5 - Sustainability

200GH

Session Chair: **Paige Goff**, *Domtar*

10:30 am - 12:00 pm

M6 - Coaching in the Moment

200GH

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

Thomas Evans, *Training Logic, Inc.*

1:30 pm - 3:00 pm

M7 - Superintendents Roundtable *Organized by Couch Pit University*

200LJ

Session Chair: **Keith Kemp**, *AstenJohnson* & **Jeff Levensailor**, *Domtar*

Forrest Adams, *Graphic Packaging*

Harvey Clayton, *Domtar*

Dave Burton, *AstenJohnson*

3:30 pm - 5:00 pm

M8 - Rethinking Paper Development in the Changing Workforce

200GH

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

1 U.S. Industry Development and Current Personnel Implications: An Update

James Stockard, *Fisher Arnold*

2 **Stephanie White**, *WestRock*

3 **William Cone**, *Green Bay Packaging*

Wednesday, April 26

8:00 am - 10:00 am

M9- State of the Industry

200GH

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

Tedd Powers, *Fisher International*

Mark Lewis, *Sustainable Fiber Technologies*

Peter Berg, *McKinsey*

10:30 am - 12:00 pm

M10 - Mill Managers Roundtable

200GH

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

Murray Hewitt, *Cascades, Inc. - Greenpac NY Mill*

Bill MacPherson, *Domtar - Kingsport, TN Mill*

Chuck Legatt, *Liberty Paper - Becker, MN Mill*

Kathy Collins, *Domtar - Rothschild, WI Mill*

1:30 pm - 3:00 pm

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

200GH

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

Sarah Dawkins, *Solenis*

Ian Bennett Shick, *SUNY College of Environmental Science and Forestry*

Steve Smith, *Domtar*

Coating & Graphic Arts (C)

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

Monday, April 24

1:30 pm - 3:00 pm

C1 - Concepts in Functional Coating

200CDE

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

- 1 Contrasting Underlying Mechanisms of Different Barrier Coatings Types
Bryan McCulloch, **John Roper**, **Kaitlin Rosen**, **Terri Powell**, *The Dow Chemical Company*
- 2 The Role of Base Substrate in Barrier and Convertibility Properties of Water Based Barrier Coated (WBBC) Paper Board and Paper
P. Miettinen, **M.Ahokas**, **T. Engström**, **J. Heinonen**, *CH-Polymers Oy*; **S. Auvinen**, *Tampere University of Technology*
- 3 Multi Layers or Drying Strategy to Avoid Pinholes by Sustainable Barrier Coating?
Per Emilsson, **Tom Larsson**, *UMV Coating Systems AB*

3:30 pm - 5:00 pm

C2 - Barrier Coating Application Techniques

200CDE

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, **Vinay Kumar**, *Åbo Akademi University*; **Doug Bousfield**, *University of Maine*
- 3 Conductive Carbon-nanocellulose Coatings on Paper
Vinay Kumar, **Maristiina Nurmi**, **Martti Toivakka**, *Åbo Akademi University*; **Sven Forsberg**, **Ann-Christine Engström**, **Christina Dahlström**, *Mid Sweden 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, **Johanna Lyytikäinen**, **Sami-Seppo Ovaska**, **Kaj Backfolk**, *Lappeenranta University of Technology*; **Ulrich Hirn**, *Technische Universität Graz*

Tuesday, April 25

8:00 am - 10:00 am

C3 - Coating Operations Success Stories
200CDE

Session Chair: **Martti Tuomisto**, *Runtech Systems*

- 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 Challenges of Applying Water-based Barrier Coatings with a Metered Size Press
John Kokoszka, *Sustainable Fiber Solutions*
 - 4 Coating & Graphic Arts Paper Quality & Production Continuous Improvement System
Pete Angle, *ISRA VISION*
- Appvion, Appleton, Wisconsin: Specialty Coated Paper Defect Detection on Multiple Off-Machine Coaters
Petri Karhula, *Procemex*
- 6 Using Cover Technology to Improve Calender Performance
Bob Carney, *Xerium Technologies*

10:30 am - 12:00 pm

C4 - Materials for Barrier Coatings
200CDE

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

- 1 Polyolefin Based Waterborne Barrier Coatings
Joshua Katzenstein, **Kaitlin Rosen**, **Christina Ellison**, **John Roper**, **Rebecca Smith**, *The Dow Chemical Company*
- 2 The Effect of Latex Characteristics and Addition Level on the Properties of Cellulose Nanofibre Films
Etienne Lazarus, **Pekka Salminen**, *Trinseo Europe*; **Vinay Kumar**, **Martti Toivakka**, *Åbo Akademi University*; **Doug Bousfield**, *University of Maine*
- 3 Effects of Montmorillonite, Kaolinite, Protein, and AKD on Nanocellulose-based Barrier Coating Packaging
Lokendra Pal, **Preeti Tyagi**, **Martin Hubbe**, *North Carolina State University*

1:30 pm - 3:00 pm

C5 - Print Technology
200CDE

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

- 1 Newest Technology: UV/HUV Inks and Coatings
Nancy Plowman, *Nancy Plowman Associates, Inc.*
- 2 A Memory Effect in Sheet-Fed-Offset Printing
Wolfgang Fuchs, **Wolfgang Bauer**, **Michael Dauer**, **Ulrich Hirn**, *Graz University of Technology*
- 3 Inkjet Technology Update
Jennifer S. Pennington, *Eastman Kodak Company*

3:30 pm - 5:00 pm

C6 - Hagemeyer Happy Hour
Seasons Ballroom

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

Wednesday, April 26

8:00 am - 10:00 am

C7 - Fundamentals of Coating Structure

200CDE

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

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

10:30 am - 12:00 pm

C8 - Novel Polymeric Materials

200CDE

Session Chair: **Jacki Laurich**, *Omnova*

- 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 Novel Matte Finishes--- Product Offering for Graphic Arts
Yinzong Guo, Larry Jopko, Kay Boakye Yiadom, Ryan Gaston, *The Dow Chemical Company*

NETinc (N)

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

Monday, April 24

1:30 pm - 3:00 pm

N1 - Opening Session & Keynote

200A

Session Chair: **Maureen Nunn**, *Pennsylvania 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 (CEU)

200A

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

Tuesday, April 25

8:00 am - 10:00 am

N3/T10 - Nonwoven Testing Tutorial (CEU)

200A

Instructors: **Roy Broughton**, *Auburn University* & **Brian George**, *Philadelphia University*

10:30 am - 12:00 pm

N4 - Fibers 1: Nanofiber Production

200A

Session Chair: **Gaurav Pranami**, *IM-Bed Biosciences*

- 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 University*
- 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

200A

Session Chair: **Muralidhar Lalagiri**, *Suominen Corporation*

- 1 Highly Dispersible Synthetic Fibers for Use in Wet Laid Applications
Joel Pawlak, *Hasan Sadeghifar*, *North Carolina State University*; **John Allen**, **Mark Clark**, *Eastman Chemical*
- 2 Air-laid Rando web formation process and its capability for different application
Shashank Shekar, *Rando Machine Corporation*

3:30 pm-5:00 pm

N6 - Sustainability

200A

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, **Edward LaFluer**, **Paul Nedwick**, *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

200A

Session Chair: **Mark Wolfinger**, *The Lubrizol Corporation*

- 1 Non-woven Composite
Wang Hao, *South China University of Technology*
- 2 Oil Sorption Behavior of Nonwoven Cotton Substrates from Oil-Water Mixture
Akshay Jain, **Seshadri Ramkumar**, *Texas Tech University*
- 3 An Overview of the new ISO16890 Test Standard for HVAC Filters
Andre Boni, **Amogh Karwa**, *Hollingsworth & Vose Company*

10:30 am - 12:00 pm

N8 - Fibers 2: New Applications

200A

Session Chair: **Seshadri Ramkumar**, *Texas Tech University*

- 1 Fiber-Based Device Building Blocks for Textile-Integrated Energy Harvesting and Communications
Max Shtein, *University of Michigan*
- 2 Nonwoven and Textile Surface Preparation Leveraging Atmospheric Pressure Plasma
Rory Wolf, *Pillar Technologies*; **Sudheer Jinka**, **Seshadri Ramkumar**, *Texas Tech University*

1:00 pm - 5:00 pm

N9 - EcoLab Tour

Meet at Registration Counters

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

L100C

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

L100C

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

Jeff Levensailor, *Domtar*
James Kanaly, *International Paper*

Tuesday, April 25th

8:00 am - 10:00 am

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

L100C

Session Chair: **Jon Kerr**, *Paper Science and Engineering Foundation at Miami University*

Luiz Gonzales, *GL&V*
Manfred Rosenbach, *Voith*
James Watson, *Solenis*
Chris Demler, *Kadant*
Richard Turnbull, *Andritz*
Ana Meneses, *WestRock*

10:30 am - 12:00 pm

PM4 - Best Practices in Papermaking Systems

L100C

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

L100C

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

- 1 How Thermography can be a Valuable Tool for Papermakers
Robin Thon, *Albany International*
- 2 Best Practices can be Quantified on Grade Changes, Energy Saving Projects, and Process Control Parameters
Frank Cunnane, *Cristini NA*
- 3 Best Practices in Inventory and Production Tracking; Big Results from Big Data
Maury Margol, *Stockpile Reports*

3:30 pm - 5:00 pm

PM6 - Papermaking Roundtable

200J

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

3:30 pm - 5:00 pm

Tissue Teaser

L100E

Session Chair: **Scott Springmier**, *TAPPI*

- 1 Strong Feelings for Softness: A Comparative Study of US Towel Production
Gary Shelp, **Seth Young**, **Metric Simpson**, **Lisa Hutfluss**, **Tom Wright**, **Fred Potter**, **Robert Breyer**, *Georgia-Pacific Chemicals*

Wednesday, April 26th

8:00 am - 10:00 am

PM7 - Papermaking Success Stories

L100C

Session Chair: **Martti Tuomisto**, *Runtech Systems*

- 1 Innovative Modularization Practices for Paper Machine Rebuilds
Kevin Knoernschild, *KBR*
- 2 Stora Enso, Skoghall, Sweden - PM 8: Energy and Water Savings with Variable Speed Vacuum Blowers on a Coated Bleached Board Machine
Jussi Lahtinen, *Runtech Systems*
- 3 Alsip Minimill, Alsip, Illinois: Mill Conversion from Coated Printing Papers to Recycled Corrugating Medium
Richard Hordyke, *Alsip Minimill*
- 4 Case Studies in Runnability Rebuild Projects
Dave Young, *Enerquin Air*
- 5 Stora Enso, Imatra, Finland - PM 4: Paper Defect Detection Upgrade to Improve Liquid Packaging Board Quality
Petri Karhula, *Procemex Ltd*
- 6 Liberty Paper's Recycled Linerboard Mill and the City of Becker, Minnesota: Solving Environmental Challenges Together
Thomas Murphy, *Liberty Paper*
Chris Lisson, *City of Becker, MN*

10:30 am - 12:00 pm

PM8 - Tips from the Experts on Troubleshooting Paper Machines Panel

L100C

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

Gary Nyman, *International Paper*
Brad Bowman, *Kapstone Kraft Paper*
Ricky Loveland, *Kemira*
Jacques Perrault, *Cascades*
David Burton, *AstenJohnson*

1:30 pm - 3:00 pm

PM9 - Rebuild Best Practices

L100C

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*

3:30 pm - 5:00 pm

PM10 - Papermaking Best Practices Wrap-Up Roundtable

L100C

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

L100B

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

- 1 Intro to Additives
- 2 Improving Paper Machine Efficiency with a New Production Aid
Rosy Covarrubias, **Maurice Rizcallah**, *Buckman North America*
- 3 Impact of Conductivity on Paper/Board Machine Performance and Stability – Review and New Experiences
Lebo Xu, **Peter Hart**, *WestRock*; **Przem Pruszyński**, *Nalco*

3:30 pm - 5:00 pm

PA2 - Process Optimization

L100B

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

- 1 Rethinking Best Practices, Felt Cleaning and Conditioning
Jay Sams, *DuBois Chemicals*
- 2 PCA - The Chemical Doctoring System
Christoph Wassmer, *CTP GmbH*

Tuesday, April 25

8:00 am - 10:00 am

PA3 - Strength

L100B

Session Chair: **Leslie McLain**, *IMERYS*

- 1 Strength Chapter Overview
Steve Broschart, *Solenis*
- 2 Using Real-time Predictive Modeling in Strength Properties
Gary Hopkins, *ProcessMiner Inc*
- 3 Usage of Fines-Enriched Pulp to Increase Strength in CTMP
Elisabeth Björk, **Hannes Vomhoff**, **Mikael Bouveng**, *RISE Bioeconomy*
- 4 Achieving High Strength Targets in Packaging
Jack Block, **Stephen Broschart**, *Solenis*

10:30 am - 12:00 pm

PA4 - Recycle in Packaging

L100B

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, Mark Nelson, Marko Kolari, Matti Heitaniemi, Ken Keegan, *Kemira*
- 2 Effective Utilization of Recycled Fiber in Virgin Packaging
Brian Altherr, *Solenis*

1:30 pm - 3:00 pm

PA5 - MFC

L100B

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

- 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
Donna Johnson, Mark Paradis, *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

L100B

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
Paul Krochak, Ida Östlund, Magnus Gimåker, Alexander Waljanson, Lennart Hermansson, *RISE Bioeconomy*
- 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, Jussi Matula, *Wetend Technologies Ltd*

Wednesday, April 26

8:00 am - 10:00 am

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

L100B

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

- 1 Chemical Interactions in Fibrous Foams
Orlando Rojas, *Aalto University*
- 2 Real-time Monitoring of Bubble Size Distribution in Foam Forming Process
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 Polyvinyl Alcohol as Foaming Agent in Foam Formed Paper
Jens-Mikael Gottberg, *Kuraray*
- 5 Maintaining Bulk of Foam Formed Structures in Pressing and Calendering
Riku Pihko, *VTT*

10:30 am - 12:00 pm

PA8 - Foam Technology Seminar Part 2

L100B

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

- 1 Progress in Foam Forming Technology
Harri Kiiskinen, 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

L100B

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

- 1 Towards a Mechanism for Surface Hydrophobization of Paper
Frida Iselau, *Kemira*; **Krister Holmberg**, **Romain Bordes**, *Chalmers University of Technology*
- 2 Rethinking Raw Water Preparation Toward More Efficient Paper-making
Elisa Luth, **Mitch Morgan**, **Melissa Callejo**, **Laura Rice**, **Liliya Lund**, *Nalco Water An Ecolab Company*
- 3 Effective Biofilm Control for Maximized Runability with Minimized Corrosion Concerns Monitored On-line
Marko Kolari, **Mark Nelson**, **Ken Keegan** and **Jaakko Ekman**, *Kemira*

3:30 pm - 5:00 pm

PA10 - Additives Roundtable & Wrap Up

L100B

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

Process Control & Fluid Fundamentals (PF)

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

Monday, April 24

1:30 pm - 3:00 pm

PF1 - Drier Web

L100D

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

- 1 Continuous Pressure Forming: Shoe-Blade Forming for Publication Grades
Vaughn Wildfong, **Jeff Irwin**, **Michel Bouchard**, **Steve Stewart**, **Mike Odell**, **Jay Shands**, *Paperchine*
- 2 The Effect of Press Nip Geometry and Web Temperature on Dryness, Density and Paper Properties
Paul Krochak, *RISE Bioeconomy*
- 3 Numerical Simulation of Wet-pressing Process by Using Lattice-Boltzmann Lattice-Spring Model
Yihsin Tang, **Tai-Hsien**, **Dewei Qi**, *Western Michigan University*

3:30 pm - 5:00 pm

PF2 - Renewing QCS Applications (CEU)

L100D

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

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

Tuesday, April 25

8:00 am - 10:00 am

PF4 - Rethinking Analysis Techniques and Statistics for Process Variability (CEU)

L100D

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, **Domtar**; **Kevin D. Starr**, **Kenneth Praprost**, **Daniel Wright**, *ABB*; **Phil Hinchcliffe**, *Domtar Paper*
- 3 Mini-Tutorial: The differences and similarities between TAPPI 545 and TIP1101
Michael Forbes, *Honeywell Process Solutions*
- 4 The New TIP1101-01, Adding Power and Simplicity to Reel Statistics
Kerry Figiel, **Neal Mc Devitt**, *International Paper*; **Ian Journeaux**, *Chairman Reel Statistics CIG, Georgia Pacific LLC*; **Johan Blackstrom**, **Michael Forbes**, *Honeywell International*; **Shih-Chin Chen**, **Keith R. Masters**, **Tim Murphy**, *ABB*; **Calvin Fu**, **Seyhan Nuyan**, *Valmet*; **Jack Tippet**, *Retired*

10:30 am - 12:00 pm

PF4 - Applications of Microfibrillated Cellulose in Papermaking

L100D

Session Chair: **Paul Krochak**, *RISE Bioeconomy*

- 1 CNF Production for Various End-use Applications and a More Source Efficient Paper/Board Industry
Eva Ålander, **Ida Östlund**, **Karin Lindgren**, **Malin Johansson**, **Magnus Gimåker**, *RISE Bioeconomy*
- 2 Surface Application of Microfibrillated Cellulose for Sheet Quality Improvement
Marc Foulger, *GL&V USA Inc*
- 3 Faster Fibrillating Fiber – A Novel Fiber for the Paper Industry
Stephan Kulka, **Berndt Köll**, **Johannes Männer**, **Andrew Slater**, **Marco Gallo**, *Lenzing AG*

1:30 pm - 3:00 pm

PF5 - Paper Micro-structure

L100D

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, S. Majid Hassanizadeh, Amir Raouf, *Utrecht University*; **Nicolae Tomozeiu**, *OCE*
- 2 Interactions Between Porosity, Internal Bonding and Formation in Modern Papermaking Processes
Juan Cecchini, *Valmet*; **Ari Puurtinen**, *Lappeenranta University of Technology*
- 3 Mechanics of Creping Process in Tissue Making: Modeling and Experiments
Kui Pan, A. Srikantha Phani, Sheldon Green, *University of British Columbia*

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

L100E

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

- 1 Using Automation to Predict and Control Board Strength Properties in Real-time
Gregory Fralic, Kevin VanPembrook, Pasi Virtanen, Mikko Viitamäki, Tuomo Kalkaja, *Valmet*
- 2 Changing Paper Grades and Product Mix Using Advanced Instrumentation
Frank Cunnane, *Cristini NA (presented by Bernard Bigras, Cristini NA)*
- 3 Simplified Model Predictive MD Control for Grade Change
Michael Forbes, Cristian Gheorghe, Joyce Choi, Pezhman Nafissi, *Honeywell Process Solutions*

3:30 pm - 5:00 pm

PF7 - New Technologies in Paper and Board Making

L100D

Session Chair: **Claes Holmqvist**, *RISE Bioeconomy*

- 1 Single-Stage Hydrocyclone Fractionation of Refined Bleached Softwood Pulp
Elisabeth Björk, Hannes Vomhoff and Margareta Lindgren, *RISE Bioeconomy*
- 2 Visualization and Characterization of 3D Structure of Fibrous Porous Bio-based Materials, and Their Relationship to Properties and Performance
Sahana Ramanna, Shri Ramaswamy, *University of Minnesota*; **Yves Defrenne**, *Appvion Inc*; **Vasa Zhdankin**, *Seagate Technologies*
- 3 Innovative Paper-Technology For Novel Longitudinally Corrugated Layers
Marion Sterner, *Gruppo X Di X Gruppo SRL*; **Mikael Magnusson**, *RISE Bioeconomy*; **Bandaru Ramarao**, *SUNY-ESF*; **Harshad Pande**, *Domtar Inc*

Wednesday, April 26

8:00 am - 10:00 am

PF8 - Fundamentals of Forming

L100D

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*; **Paul Krochak, Bo Norman, Lennart Hermansson**, *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*; **Stephen Stewart**, *Paperchine*

8:00 am - 10:00 am

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

L100E

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

- 1 P&IDs, The neglected Best Practice
Doug Dicksey, 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, ChangYuan Liu, *ABB*; **Ake Hellstrom**, *Retired*

10:30 am - 12:00 pm

PF10 - Redefining WIS/Machine Vision Needs and Functions (CEU)

L100D

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

- 1 Real-time Full Web Formation and Surface Formation Analysis
Tommi Huotilainen, Myron Laster, Seppo Riikonen, Edward Kondratiev, *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?
Jason Zyglis, Peter Kasameyer, *Ametek*

1:30 pm - 3:00 pm

PF11 - Rethinking QCS Controls (CEU)

L100D

Session Chair: **Michael Forbes**, *Honeywell Process Solutions*

- 1 An Approach for Feedforward Model Predictive Control for Pulp and Paper Applications: Challenges and the Way Forward.
Moksadur Rahman, Anders Avelin, Konstantinos Kyprianidis, Erik Dahlquist, *Mälardalen University*
- 2 Active Retention Control and Reduced Ash Variability using Advanced Process Control
Abhay Anand, Abhijit Badwe, Ramesh Satini, *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 Textiles Tutorial (CEU)

200A

Seshadri Ramkuman, *Texas Tech University*

Tuesday, April 25

8:00 am - 10:00 am

T2 - Steam Showers (CEU)

L100A

Philip Wells, *Wells Enterprises Inc.*

10:30 am - 12:00 pm

T3 - Process Variability Troubleshooting (CEU)

L100A

Paul Kristopeit, *PM Diagnostics*

1:30 pm - 3:00 pm

T4 - Low Consistency Refining Strategy Development (CEU)

L100A

Session Chair: **Arvind Singhal**, *Andritz*

3:30 pm-5:00 pm

T5 - Consistency Transmitter Measurement Technology & Process Considerations (CEU)

L100A

Mike Hendricks, *BTG*

Wednesday, April 26

8:00 am - 10:00 am

T6 - Tissue Converting Efficiency

L100A

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

Joseph Gotshall, *Mitorres*

Steve Boothe, *EDSON*

Massimo Capisani, *Pulsar* & **Bruce Janda**, *InnovaSpec*

Scott Hansen, *Fabio Perini North America*

10:30 am - 12:00 pm

T7 - Fiber Prep for Tissue

L100A

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

- 1 Overview of Tissue Grades and Their Pulp Furnish Selection
Xuejun Zou, *FPIInnovations*
- 2 Refining of HW and SW Kraft for Tissue Making
Joel Pawlak, *NC State University*
- 3 Chemical and Enzymatic Treatments to Improve Pulp Fibre for Tissue Making
Kevin MacDonald, *Buckman*

1:30 pm - 3:00 pm

T8 - Energy Savings in Tissue Vacuum Systems

L100A

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

- 1 Tissue Vacuum Systems Basics
Andrew Smiltneek, *Growth Solutions Consultants*
- 2 Fundamentals of Wet Press
Roland Gong, *University of Wisconsin - Stevens Point*
- 3 Fundamentals of Turbine Blowers
Jussi Lahtinen, *Runtech Systems*
- 4 Fundamentals of Liquid Ring Vacuum Pumps
Andrew Smiltneek, *Somarakis, Inc.*

3:30 pm - 5:00 pm

T9 - Tissue Creping

L100A

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

L100E

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

L100E

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, **Tim Hasbargen**, *Wisconsin Focus on Energy*

Tuesday, April 25

8:00 am - 10:00 am

RPTA3 - Process Stability through Operational Management in Recycle Mills

L100E

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, *OS/soft, LLC*
- 4 Utilization of Data for Diagnostics and Process Transparency
Pasi Niemelainen, *Savcor Inc.*

10:30 am - 12:00 pm
RPTA4 - Maintenance Reliability
L100E

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

- 1 Breaking the Reliability Cycle of Despair
Jay Shellogg, *Strategic Maintenance Reliability*
- 2 Leveraging Reliability Best Practices to Drive Business Performance
Tony Dotson, *Westrock*

1:30 pm - 3:00 pm
RPTA5/PF6 - Rethinking the Use of Process Control to Reduce Basis Weight on Board Grades (CEU)
L100E

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*

OpEx Maintenance & Reliability Workshop (OPEX)

Track Manager: **Robert Forstrom**, *SKF*

Tuesday, April 25

8:00 am - 10:00 am
OPEX1 - Maintenance & Reliability
200B

Session Chair: **Robert Forstrom**, *SKF*

- 1 Seal Solutions in the Paper Industry today; It's the System
Robert Forstrom, *SKF*
- 2 Fourdrinier Inspection is Now Much Faster and More Efficient with New Laser Tracker Technology
George LeGrand, *OASIS Alignment Services*
- 3 The Maintenance Department vs the Maintenance Function
Jay Shellogg, *Strategic Maintenance Reliability*
- 4 The Timken ADAPT Bearing for Paper Machine Applications
Nigel Los, *The Timken Company*

10:30 am - 12:00 pm
OPEX2 - Maintenance & Reliability
200B

Session Chair: **Robert Forstrom**, *SKF*

- 1 Reel Component Misalignment Can Cause Real Issues
Myron Smith, *OASIS Alignment Services*
- 2 Take Control of Your Roll Maintenance Costs and Your Paper Quality – How a Small Investment in Roll Grinding Can Pay Off For Years to Come
Kurt Braun, *Wallen Inc.*