PROCESS CONTROL (PC)

Monday, May 6, 2019

1:30PM – 3:00PM **PC1: Measurement Technologies**

Session Chair: Kerry Figiel, International Paper

PC1.1	High-Performance Surface Moisture Sensor for Paper Web Measurement and Control	Michael O'Hora, ABB Ltd.
PC1.2	Continuous Cross Machine Formation by Wavelet Transform Analysis	D. Steven Keller, Miami University
PC1.3	Understanding and Controlling Brightness Plus a Bit on Whiteness	Mark Crable, Verso Corporation

3:00PM – 3:30PM **Break**

3:30PM – 5:00PM **PC2: QCS Control**

Session Chair: David Moore, SAPPI

PC2.1	Alias Impact on Control Profile	Kerry Figiel, International Paper
PC2.2	MPC for Simple Setup of Midrange and Other Advanced Controls	Michael Forbes, Honeywell
PC2.3	Multivariable Block Decoupling Control Strategy for the Cross-directional Basis Weight of Paper	Wenjuan Shan, Shaanxi University of Science & Technology

Tuesday, May 7, 2019

8:00AM – 10:00AM **PC3-PIMA: Analytics and Process Monitoring**

Session Chair: David Worzalla, International Paper

PC3-M.1	A New Era in Mill Analytics	Mariana Sandin, OSIsoft
PC3-M.2	Automation of Production, Quality and Cost Management for Paper Making	Paul Collette, ABB
PC3-M.3	Cloud Connected — The Next Generation of QCS Service and Optimization	Johan Backström, Honeywell
PC3-M.4	Smarter Sheet Break Detection Systems Can Provide Valuable Instantaneous Information from the Mill Floor to Mill Management	Tim Rye, Ryeco

10:00AM – 1:30PM **Lunch/Exhibit/NTS**

1:30PM – 3:00PM **PM4B-PC4: QCS Optimization**

Session Chair: Ian Journeaux, Georgia-Pacific

PC4-PM4B.1	How to Perform Sensor Correlation "The Right Way"?	Lu Athnos, ABB
PC4-PM4B.2	Moisture Management and Optimization from Headbox to Reel in Papermaking Process	Mikko Viitamäki, Valmet Automation Inc.
PC4-PM4B.3	Simplified Automatic Nonlinear Grade Change Control for Paper Machines	Ryan Daut, KapStone Paper

3:00PM – 3:30PM **Break**

3:30PM – 5:00PM **PC5-PIMA: Data Analytics Application**

Session Chair: Shih-Chin Chen, ABBMariana Sandin, OSIsoft

PC5.M.1	Creating Adaptive Predictions for Packaging Critical Quality Parameters Using Advanced Analytics and Machine Learning	Cydney Rechtin, Solenis
PC5.M.2	Smart Paper Machine Analysis Reveals Centerlining Truths	Steve Nielson, WestRock
PC5.M.3	Traditional vs First Principle Data Analysis: How to Get More Out of Less with New Technologies?	Juan Cecchini, Valmet Technologies

Wednesday, May 8, 2019

8:00AM – 10:00AM **PC6: New Technology for Web Inspection**

Session Chair: Brian Mock, Event Capture Systems, Inc.

PC6.1	The Next Level of Web Inspection: A Specialty Mill Upgrade	joseph poltorak, Schenk Vision LLC
PC6.2	Real-Time Paper and Paperboard Quality Analysis and Classification Based on Paper Formation or Surface Formation in Web Inspection System	Tommi Huotilainen, ABB
PC6.3	New Machine Vision Applications for Paper Industry	Aki Torvinen, Valmet
PC6.4	Surface Printability Measurement for Paper and Board	Toni Kuparinen, Printworks

10:00AM – 10:30AM **Break**

10:30AM – 12:00PM **PC7: Practical Uses of Web Inspection**

Session Chair: Wesley Sweeny, Procemex

PC7.1	Beyond Web Inspection and Monitoring systems — Intelligent Cameras that Increase Papermaking Efficiency	Petri Karhula, Procemex Inc
PC7.2	Advances in Off the Shelf Camera Technology Provide Papermakers with Better Tools to Increase Paper Machine OEE	John Larkin, Event Capture Systems, Inc.
PC7.3	The Future is Full Web Dirt Analysis for Pulp, Paper, and Paperboard	Vince Williamson, ABB

11:30AM – 1:30PM **Lunch/Exhibit**

1:30PM – 3:00PM **PC8: Process Control Applications**

Session Chair: Michael Forbes, Honeywell International

PC8.1	Novel Methods to Reduce Cost and Improve Sheet Properties Using Advanced Microwave Water Measurement Technology	Frank Cunnane, Crisitni NA
PC8.2	AC vs DC Coil Excitation Magnetic Flow Meters used in the Pulp & Paper Industry	Kevin Green, ABB
PC8.3	Simulation Aided Control of Drying Process	Peter Fisera, CF Procsim GmbH

3:00PM – 3:30PM **Break**

3:30PM – 5:00PM **PC9: Pulp and Energy Optimization**

Session Chair: David Worzalla, International Paper

PC9.1	How Deep Learning is Used to Increase the Quality Control of Wood Chips by Classification	Brian Mock, Event Capture Systems, Inc.
PC9.2	Improving Batch Digester Scheduling Efficiency and Pulp Quality using Advanced Process Control	Abhijit Badwe, ABB Inc
PC9.3	Reducing Green House Gases in the Pulp and Paper Industry by Optimizing CHP Solutions	John Harrell, Solar Turbines Inc.