

Papermaking Additives (PA)

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

Monday, April 16th

1:30 pm - 3:00 pm

PA1 - Enzyme Technology

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

- | | | |
|-------|---|---|
| PA1.1 | Enzyme Overview for Paper (tutorial) | James Luo , <i>Novozymes</i> |
| PA1.2 | Cellulolytic Enzymes – Versatile Tools in Papermaking | Philip Hoekstra , <i>Buckman International</i> |
| PA1.3 | Latest Development of Enzymatic Technologies Provides a New Level of Stickies Control | Mark Reed , <i>Buckman International</i> |

3:30 pm - 5:00 pm

PA2 - Advances in Microbiology

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

- | | | |
|-------|---|---|
| PA2.1 | Metagenomic DNA Testing as a Tool to Reduce Costly Slime and Odor Problems | Linda Robertson , <i>International Paper</i> ; & John Tillotson , <i>Microbe Detectives</i> |
| PA2.2 | Case Studies of a Surface Active Non-Oxidizing Biocide | Wilson Nova , <i>LANXESS</i> |
| PA2.3 | Monitoring and Control of the Biodegradation Rate of Cellulose-based Products for Agricultural Applications | Rafik Allem , <i>FPIInnovations</i> |

Tuesday, April 17th

8:00 am - 10:00 am

PA3 - Strength I: Dry Strength

Session Chair: **Frank Sutman**, *Solenis*

- | | | |
|-------|---|---|
| PA3.1 | New Strength Solutions for Packaging Grades Based on Vinylformamide-containing Polymers in Dual Component Systems | Anton Esser , <i>BASF SE</i> |
| PA3.2 | Novel Kraft Liner Retention and Drainage Polymer | Mike Wallace, Chris Lewis & Arno De Beer , <i>Kemira</i> |
| PA3.3 | Polyelectrolyte Multilayers and Other Dosage Strategies - Effects on Properties of Paper Sheets Produced in Lab and Pilot Scale Using Mill Process Waters | Caroline Ankerfors , <i>RISE Bioeconomy</i> |
| PA3.4 | Utilizing Data and Real-time Monitoring to Manage Chemical Programs | Tony Lewis , <i>Solenis LLC</i> |

1:30 pm - 3:00 pm

PA4 - Strength II: Wet Strength

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

- | | | |
|-------|--|---|
| PA4.1 | Wet Strength Overview | H. Goldsberry , <i>Kemira</i> |
| PA4.2 | Towards Higher Wet Strength, Easier Repulpability, and Enhanced Compostability | Robert Pelton , <i>McMaster University</i> |
| PA4.3 | Regulatory and Sustainability Initiatives Lead to Improved Polyaminopolyamide-epichlorohydrin (PAE) Wet Strength Resins and Paper Products | Richard Riehle , <i>Solenis LLC</i> |

3:30 pm - 5:00 pm

PA5 - Strength III: Natural

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

- | | | |
|-------|--|--|
| PA5.1 | Production of Pulps with an Extremely High Fines Content for Use as Strength Agent | Elisabeth Björk , <i>RISE Bioeconomy</i> |
| PA5.2 | Pilot Scale Trial with Fines-enriched Pulp as Strength Agent in a CTMP Middle Ply | Mikael Bouveng , <i>RISE Bioeconomy</i> |
| PA5.3 | Boosting the Elongation Potential of Paper by Additives | Anna Sundberg , <i>Åbo Akademi University</i> |

Wednesday, April 18th

8:00 am - 10:00 am

PA6 - Advances in Sizing Technology

Session Chair: **Lebo Xu**, *WestRock*

- | | | |
|-------|---|---|
| PA6.1 | Sizing Overview | |
| PA6.2 | New Sizing Additive for Full or Partial Replacement of ASA | Andre Gobin , <i>TPC Group</i> |
| PA6.3 | Efficacy of Cassava Gel, Polyvinyl acetate and Hydroxyethyl Cellulose as Sizing Agents for 30-cell Paper Egg Tray | Kehinde Amoo , <i>University of Ibadan Nigeria</i> |
| PA6.4 | Application of Cellulose Nanofibrils as an Additive for the Production of Durable Papers | Hyeonji Park , <i>Seoul National University</i> |

10:30 am - 12:00 pm

PA7 - Topics in Brightness

Session Chair: TBD

PA7.1 Brightness Overview

PA7.2 Where did the Brightness Go?

Ashok Ghosh, *WestRock*

PA7.3 Enzyme-Aided Peroxide Bleaching For High Brightness BCTMP

Bingyao Zhou, *Western Michigan University*

1:30 pm - 3:00 pm

PA8 - Filler Applications and Mixing Technology

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

PA8.1 Mixing Overview

Darren Swales, *Kemira*

PA8.2 Mineral/ Microfibrillated Cellulose Composite Materials: High Performance Products, Applications and Product Forms

David Skuse, *FiberLean Technologies Ltd*

PA8.3 In-Line PCC Technology Cleans Up Circulation Water From Dissolved Materials, Metals and Bio Based Microorganisms Resulting to Clean Process and High Runnability

Jouni Matula, *Wetend Technologies Ltd*

3:30 pm - 5:00 pm

PA9 - Papermaking Additives Wrap-Up and Roundtable

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