

Fluid Fundamental (FF)Track Manager: **Paul Krochak**, *RISE Bioeconomy***Monday, April 16th**

1:30 pm - 3:00 pm

FF1 - Coating RheologySession Chair: **Paul Krochak**, *RISE Bioeconomy*

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| FF1.1 Coating Rheology: What Do We Know and Recent Understanding | Douglas Bousfield , <i>University of Maine</i> |
| FF1.2 Colloidal Rheology of Enzymatic Polymerized Polysaccharides | John Fisher , <i>DuPont Industrial BioScience</i> |
| FF1.3 Pilot Coating with a Hemicellulose Based Barrier | Peter Rättö , <i>RISE Bioeconomy</i> |

3:30 pm - 5:00 pm

FF2 - Novel Characterization MethodsSession Chair: **Jordan MacKenzie**, *University of British Columbia*

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| FF2.1 Experimental Investigations on Fragmentation Mechanisms in a Model High Pressure Homogenizer | Christophe Brouzet , <i>Royal Institute of Technology KTH</i> |
| FF2.2 Non-destructive Fiber Analysis of Paper via Resonant Cavity Broadband Dielectric Spectroscopy | Mary Kombolias , <i>US Government Publishing Office</i> |
| FF2.3 Crystal Particle Adhesion to Heat Transfer Surfaces in Falling Film Flow: A Computational Study | Yuanzheng Zhu , <i>Georgia Institute of Technology</i> |

Tuesday, April 17th

8:00 am - 10:00 am

FF3 - Controlling Web StructureSession Chair: **Claes Holmqvist**, *RISE Bioeconomy*

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| FF3.1 Improving Consistency Control | Michael Hendricks , <i>BTG Americas Inc</i> |
| FF3.2 Some Practical Aspects of Retention Aids Addition on Web Structure Variability | Paul Krochak , <i>RISE Bioeconomy</i> |
| FF3.3 Monitoring Cross-Thickness Distributions of Fines and CMF by Dyeing and Optical Measurement | Peter H. F. Hansen , <i>RISE Bioeconomy</i> |
| FF3.4 Unique Web Structures with Next Generation Fibre Foam Research Environment | Jani Lehmonen , <i>VTT</i> |

1:30 pm - 3:00 pm

FF4 - Press DewateringSession Chair: **Jimmy Jong**, *FPInnovations*

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| FF4.1 Rewet in Wet Pressing of Paper | David McDonald , <i>JDMcD Consulting Inc</i> |
| FF4.2 Mathematical Modelling and Simulation of Initial and Mechanical Dewatering of Paper Web in Paper Machine Sections | Natalie Osti , <i>Voith Paper</i> |
| FF4.3 Water Balance and Simulation of Wet Pressing in a Two-roll Press Section | John Xu , <i>AstenJohnson</i> |

3:30 pm - 5:00 pm

FF5 - Production DynamicsSession Chair: **John Xu**, *AstenJohnson*

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| FF5.1 In-situ Measurements of Stock Flow Conditions in the Twin-wire Forming Zone | Claes Holmqvist , <i>RISE Bioeconomy</i> |
| FF5.2 Improving Runnability of Pulp Drying Machines at the Wet-end | Javad-Reza Saberian , <i>FPInnovations</i> |
| FF5.3 Dimensional Stability Issues of Lightweight and New Paper Grades: Causes and Remedies | Frederic Parent , <i>FPInnovations</i> |