Program

11th Fundamental Mechanical Pulp Research Seminar
Norrköping April 2 – 4 2019
Welcome to the 11th Fundamental Mechanical Pulp Research Seminar, FMPRS, in Norrköping 2019

**Tuesday April 2 – Hospitalsgatan 30 Norrköping**
18:00 Evening reception and registration, ÅF Industry’s facilities

**Wednesday April 3 – Renströmmen Norrköping city**
08:30 Registration
09:00 Welcome to seminar day 1

**Keynote speakers**
- **Tommy Wiksand** – Holmen Paper - A company in transition based on mechanical pulp
- **Thomas Granfeldt** – Valmet - High Yield Pulping - now and forever!
- **Per Engstrand** – FSCN - Research trends in high yield pulping

10:30 Coffee break

**10:50 Process technology**
- **Per Engstrand** – Decrease in strength along a process line for SC paper
- **Lars Johansson** – Chip washers – do we need them?
- **Christer Sandberg** – The centre plate design effect refiner performance
- **Per Gradin** – The Influence of the Cutting Rate on the Damage State of a Wood Chip

12:10 Lunch

**13:10 Fibre Modification and new products**
- **Tove Joelsson** – Unique steel belt press technology for development of high strength wood-containing papers
- **Rana Alimohammadzadeh** – Sustainable Surface Engineering of Chemimechanical Pulp Fibers by Synergistic Combination of Metal-free Catalysis and Polyelectrolyte Complexes
- **James Olson** – Low Consistency Refined Microfibre: MFC alternative for High Bulk, High Tear and High Tensile Mechanical Pulp
- **David Myja** – 4-acetamido-TEMPO-mediated oxidation of wood chips and thermomechanical pulp in large scale

14:30 Coffee break

- **Hafizur Rahman** – Maximised wood chip impregnation efficiency validated by new miniaturized X-ray fluorescence techiques
- **Gunilla Pettersson** – Market pulp of CTMP with double strength properties
- **Erik Persson** – Spruce HT-CTMP revisited – A high yield, energy efficient pulp for future products

17:00 Seminar closing day 1

**18:00 Guided tour Norrköping city**
**19:00 Dinner, Louis de Geer**
Thursday April 4 – Holmen Braviken
08:30 Bus from Scandic City to Holmen Braviken Paper Mill
09:00 Welcome to seminar day 2

09:00 Modelling and control
Fredrik Bengtsson – Refining models for optimization and control – How to use such models for pulp and handsheet property estimations
Johan Sund – Effects of online pulp analysis frequency and chest retention time on refiner control performance
Anders Karlström – Deep learning in Refining Processes – A Pre-study of Internal and External Variables Impact on Pulp Properties
Johan Persson – Modelling feed to a double disk refiner

10:20 Coffee break
Magnus Heldin – On tool engagement in groundwood pulping — in-situ observations and numerical modelling at the microscale

11:00 Fibre characterisation
Göran Thungström – Evaluation of pulp by optical transmission and scattering measurement
Ola Johansson – Experiences of Single Point Morphology Measurements in Mechanical Pulp
Olof Ferritsius – Heterogeneity

12:00 Lunch

13:15 Study visit Holmen Braviken
Fredrik Holgersson, Mill Manager, Welcome to Braviken
Fredrik Bragsjö, Pulp mill Manager – TMP Braviken

14.00 Guided mill tour
15:15 Seminar closing
15:30 Bus to city

Read the whole program on www.miun.se/fmprs

Questions

Concerning the Seminar
Inger Axbrink, e-mail inger.axbrink@miun.se, phone +46 70 393 16 43

Research related
Per Engstrand, e-mail per.engstrand@miun.se, phone +46 70 573 67 52
Christer Sandberg, e-mail christer.sandberg@holmen.com, phone +46 70 313 33 75