



## Final symposium program e2mp

Time September 19 – 20 2017  
Place Mid Sweden University campus Sundsvall

### September 19 MI02

#### 12:00

#### Lunch

13:00 Welcome  
13:20 Introduction and background to e2mp  
13:50 e2mp project portfolio  
14:05 Fundamental principles of energy efficiency in TMP/CTMP  
14:35 Softened TMP refining, new segment design

#### 15:00

#### Coffee and tea

15:35 Chip pretreatment from lab to mill  
16:05 Chip pretreatment, mill implementation Braviken  
16:35 Chip pretreatment, mill study Ortviken  
16:55 Modified chipping  
17:15 Microwaves

#### 18:30

#### Dinner

### Rest Åkroken campus Sundsvall

Anders Fällström, Mid Sweden University  
Jan Hill, QualTech  
Per Engstrand, Mid Sweden University  
Hans Höglund, Mid Sweden University  
Birgitta Engberg, Mid Sweden University

Louise Logenius, Mid Sweden University  
Christer Sandberg, Holmen Paper/Miun  
Anette Karlsson, SCA Paper  
Per Engstrand, Mid Sweden University  
Geoffrey Daniel, Sveriges Lantbruksuniversitet

### Bryners kök, Kyrkogatan 24 Sundsvall

### September 20 C227

08:00 BAT study and sampling

Olof Ferritsius, Mid Sweden University

08:25 Process intensification and energy efficiency  
08:50 Fiber development and energy efficiency

Christer Sandberg, Holmen Paper/Miun  
Olof Ferritsius, Mid Sweden University

#### 09:25

#### Coffee and tea

09:55 HC-LC refining  
10:15 LC refining  
10:40 e2mp-ox  
11:15 Intensified refining incl Skoghall case study

Rita Ferritsius, Stora Enso/Miun  
Christer Sandberg, Holmen Paper/Miun  
Lars Johansson, RISE/PFI  
Jan Hill, QualTech

#### 11:55

#### Lunch

12:55 Advanced HYP for board  
13:15 Strong paper from HYP  
13:35 CTMP developments and new opportunities  
13:55 Ultrasound treatment  
14:05 Fix the mix  
14:15 Reflections and opportunities, wrap up discussion  
14:45 Future research

### Rest Grönborg

Thomas Granfeldt, Valmet  
Gunilla Pettersson, Mid Sweden University  
Sven Nogren, Mid Sweden University  
Örjan Johansson, Luleå Tekniska Universitet  
Olof Ferritsius, Mid Sweden University  
Per Engstrand et al. Mid Sweden University  
Per Engstrand, Mid Sweden University

#### 15:00

#### Coffe and tea and "The End"

Please contact Anna Haeggström, e-mail [anna.haeggstrom@miun.se](mailto:anna.haeggstrom@miun.se), phone +46 10-142 84 93 for further information.

### Welcome!

Per Engstrand, reseach centre FSCN Mid Sweden University

KKstiftelsen <<   Energimyndigheten

Valmet <>   Norske Skog **HOLMEN**

 **storaenso**

 **SCA**  
Care of Life

 **Mittuniversitetet**  
MID SWEDEN UNIVERSITY