



# SUNPAP project – Final Conference 19-20 June 2012

Nano Fibrillated Cellulose production, factors affecting quality, paper & board applications, risk and sustainability assessment.

**Location: Palazzo Turati, Via Meravigli 9/b–20123, Milan (Italy)**

## What is SUNPAP?

*Scale-Up Nano Particles in Modern Papermaking (SUNPAP) is a large-scale integrating project in the European Community's 7th Framework Programme under the NMP programme. The general aim of the SUNPAP project is to direct the paper and board production to even more sustainable use of materials and production technologies. Special attention was paid to sustainability assessment and life cycle analysis throughout the project. The project is coordinated by Dr. Ulla Forsström from VTT Technical Research Centre of Finland (VTT), Finland. Contact: [ulla.forsstrom@vtt.fi](mailto:ulla.forsstrom@vtt.fi).*

## Who should attend?

*Whether you are researcher or industry manager interested in how to produce Nano Fibrillated Cellulose (NFC) and/or develop novel paper based products using this new material in a sustainable way, this conference is a unique opportunity to get up-to-date scientific information and to network with top scientists in this field.*

## How can you participate?

*This conference is free of charge however due to the limited amount of places registration is needed. If you later change your travelling plan, please cancel the registration. If your registration is not cancelled in time, we will charge you 100 €. We recommend to book your hotel well in advance. The registration link as well as the info about suggested hotels and how to reach the location will be soon available in pages [sunpap.vtt.fi/finalconference2012.htm](http://sunpap.vtt.fi/finalconference2012.htm).*

## Preliminary programme –

### Tuesday 19<sup>th</sup> June 2012

13:30 - 14:00 Registration

14:00 - 14.15 Welcome and Introduction to SUNPAP, (Ulla Forsström, VTT)

### Session 1: Nanocellulose production and characterization (Chairperson, Tiemo Arndt, PTS)

14.15-14.40 *Nanocellulose: impact on European competitiveness (Katja Bergroth, Pöyry)*

14.40-15.05 Technical opportunities and economical challenges to produce nanofibrillated cellulose in pilot-scale: NFC delivery for applications in demonstration trials. (Valerie Meyer, CTP)

- 15.05- 15.30 Advanced characterization techniques to evaluate the structure of nanofibrillated cellulose. (*Asko Sneek, VTT*)
- 15.30- 16.30 Coffee break & Poster session
- 16.30-16.55 Environmentally friendly techniques to increase the solid content of suspensions from nanofibrillated cellulose: AKD-nano-emulsions. (*Karim Missoum, INP Grenoble*)
- 16.55-17.20 Modeling NFC suspensions in pilot scale process conditions (*Antti Puisto, Aalto*)
- 17.20- 17.45 Safety assessment of nanoparticles and nanomaterials, general aspects and the specific case of nanofibrillated cellulose (*Atte Von Wright, BioSafe*)
- 20.30 Conference dinner

## Wednesday, 20<sup>th</sup> June 2012

### Session II: Nanocellulose applications (Chairperson, *Ulla Forsstrom, VTT*)

- 9.00-9.25 Innovative surface treatment with foam coating technology (*Karita Kinnunen, VTT*)
- 9.25-9.50 Active properties of foam coated paper by functionalised nano-fibrillated cellulose. (*Patrizia Sadocco, Innovhub & Giovanni Baldi, Colorobbia Italia*)
- 9.50-10.20 Coating of PVOH/NFC blend to develop a barrier packaging board: from lab to pilot scale (*Céline Guezennec, CTP*)
- 10.20-11.05 Coffee break & Poster session
- 11.05-11.40 Replacement of synthetic binders with NFC in board coating: pilot scale studies (*Heikki Pajari, VTT, Anders Wigsten, StoraEnso*)
- 11.40- 12.05 Nanofibrillated cellulose in high quality inkjet coating (*Gerd Papier, Schoeller Technocell GmbH & Co. KG, Ralf Gericke, PTS*)
- 12.05-12.30 Nanofibrillated cellulose: Results of in vitro and in vivo toxicological assays (*Hannu Norppa, FIOH*)
- 12.30-13.30 Lunch & Poster session

### Session III: Influence on product end of life & sustainability (Chairperson, *Graziano Elegir, INNOVHUB*)

- 13.30-13.55 End of life of innovative SUNPAP paper products containing NFC/MFC: their effect on recycling/deinking behaviour (*Benjamin Fabry, CTP*)
- 13.55-14.20 Organic recovery: an efficient end of life option for innovative Sunpap paper products (*Patrizia Sadocco, INNOVHUB*)
- 14.20-14.45 Risk assessment of nanofibrillated cellulose in occupational settings (*Juulia Rouhiainen, Pöyry*)
- 14.45-15.15 Sustainability assessment of NCF board and non-woven applications (*Tiina Pajula, VTT*)
- 15.15-15.30 Sum-up and closure (*Ulla Forsström, VTT*)



Felix Schoeller

