

**Welcome to the conference**

Recent advances in  
**cellulose nanotechnology research**

**Production, characterization and applications**

**05 - 06 October 2022**

**PFI**

RISE PFI is part of RISE - Research Institutes of Sweden

# Program

## 5 October

**08.30 Registration**

**09.00 Philip Reme** (RISE PFI) Welcome to the research seminar

**09.05 Andreas Fall** (RISE- Research Institutes of Sweden) CNF – a particle and a polymer

**09.30 Pedro Fardim**, (KU Leuven) Laboratory and pilot plant production of microfibrillated cellulose by low-consistency refining

**10.00 Synnøve Holtan** (Borregaard) Advantages of Exilva in corrugating starch adhesives

**10.30 Coffe break**

**10.45 Alfred French** (U.S. Department of Agriculture: New Orleans) X-Ray diffraction analysis of cellulose

**11.10 Amalie Solberg** (RISE PFI) Properties of inorganic-organic polymer coated paper and nanopaper

**11.30 Jonathan Phipps** (FiberLean® Technologies Ltd) Coating MFC onto paper – industrial challenges

**12.00 Lunch**

- 12.45 Heli Kangas** (VTT)  
The scale of nanocellulose in applications - from electronics to packaging and beyond
- 13.15 Julien Bras** (Grenoble Institute of Technology)  
Natural deep eutectic to obtain directly anionic cellulose nanocrystals
- 13.45 Alain Dufresne** (Grenoble Institute of Technology)  
Preparation of stimuli responsive actuators from cellulose nanofibrils by interface co-precipitation method
- 14.15 Coffee break**
- 14.30 Lars Berglund** (KTH)  
Controlling nanostructure and optical transmittance in load-bearing cellulose materials
- 15.00 Noelia Campillo** (REGEMAT)  
From 3D printing of medical devices to bioprinting of tissues and organs
- 15.30 Gary Chinga Carrasco** (RISE PFI)  
Is a period of 10 years sufficient to develop a nanocellulose wound dressing product?
- 16.00 Poster session**
- 19.00 Dinner at Kvilhaugen gård**

## 6 October

- 09.00 Orlando Rojas** (University of British Columbia)  
Renewable nanoparticles in superstructured and multiphase materials
- 09.30 Prang, Simen Følknær** (Norske Skog Saugbrugs)  
Characterization and performance of cellulose nanofibril epoxy-based masterbatches
- 10.00 Sandra Rodriguez Fabia** (RISE PFI)  
Hydrophobization of cellulose: current trends and challenges
- 10.20 Coffee break**
- 10.35 Eva Pasquier** (RISE PFI)  
Conception of multilayer biobased films with high oxygen and water vapor barrier for food packaging applications
- 10.55 Stephen Eichhorn** (University of Bristol)  
Octylamine modified nanocellulose – Getting the best of the oil and water worlds
- 11.25 Kristin Syverud** (RISE PFI)  
CNF dispersions – towards industrial applications
- 11.50 Øyvind Eriksen** (RISE PFI)  
Conclusions and perspectives
- 12.15 Lunch**
- 13.00 Guided tour at RISE PFI**