

“Added-value to wood and forest residues by advanced pulping and separation methods”

Program on Tuesday, April 17th, 14:00 – 18:00

Welcome & Introduction of the AFORE EU project

Anna Suurnäkki, VTT, Coordinator

Conference session

- **Industry perspective**
José Ataíde, RAIZ
Martha Lopez, CELBI
- **AFORE approach**

Novel pulping and separation methods

Pre-hydrolysis and cooking of eucalyptus, *Sverker Danielsson, Innventia*
Organosolv cooking of eucalyptus, *Sari Hyvärinen, VTT*

Product opportunities

Xylan and lignin from eucalyptus black liquor and pulp, *Sverker Danielsson, Innventia & Jairo Lora, GreenValue*

Markets and environment

Market analysis, *Tobias Stern, WoodKPlus*
Environmental modelling, *Margarida Tomé, UTL*

- **Poster session, coffee & snack**
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Partners in AFORE:

- VTT
- Innventia
- University of Aveiro
- Fraunhofer
- University of Helsinki
- Wood K Plus
- Centre for Research and Technology Hellas
- Stiftelsen SINTEF
- Institutul de Chimie Macromoleculara PetruPoni
- Instituto Superior de Agronomia
- Södra
- Celbi
- Oy Separation Research Ab
- NATEX
- GreenValue SA
- hte AG
- Danisco Sweeteners
- University of Maine
- Södra Cell





afore

List of posters:

Miranda, I., Gominho, J. and Pereira, H. Fractionation of leaves of *Betula pendula* and *Eucalyptus globulus* as a pre-treatment for chemical valorization.

Hakola, M., Lankinen, E., Lahtinen, P., Leskelä, M., Repo, T., Riekkola, T., Wrigstedt, P., Kallioinen, A., Rovio, S., Siika-aho, M., Uusitalo, J., Vuorela, S., von Weymarn, N. Liberation of Cellulose from the Lignin Cage.

Kilpeläinen, I., Karhunen, P., Matikainen, J. and King, A. Ionic liquids in wood fractionation.

Björklund Jansson, M., Aldaeus, F., Reimann, A., Ljungquist, P., Schweinebarth, H. and Boklund, M. Extraction of bioactive chemicals in spruce wood residues.

Sova, M. and Lack, E. Supercritical CO₂ extraction of biomaterials, Example: Carbocell process.

Oliveira, E.L.G., Domingues, R.M.A., Silva, C.M., Silvestre, A.J.D., Freire, C.S.R., Pascoal Neto, C. Supercritical CO₂ extraction of high value triterpenoids from *Eucalyptus globulus* bark: preliminary experiments.

Hakala, T.K., Liitiä T. and Suurnäkki A. Isolation of oligosaccharides and xylan from kraft pulp by enzyme-aided alkaline extraction.

Krogerus, B., Hyvärinen, S., Hakala, T., Liitiä, T. and Suurnäkki, A.. Alkaline extraction of xylan.

Barreiro, S., Tomé, M. SIMPLOT: Regional forest simulator based on inventory plots developed for eucalyptus in Portugal.

Barreiro, S. and Tomé, M.. Using consecutive National Forest Inventories to validate regional forest simulators. An application to the regional simulator SIMPLOT in Portugal

Faias, S., Palma, J., Paulo, J., Barreiro, S. and Tomé, M.. SIMFLOR – Platform for Portuguese forest simulators.

Hakala, J., Hytönen, E. Organosolv concept for pine - system analysis

J. Lora. Markets for emerging lignins.

