



Nordic Wood Biorefinery Conference 2022 – Poster presentations

Assessing Environmental Aspects

Oxygen Delignification – its Strong Oxidative Power to Increase Mechanical Pulp Properties and Reduce Energy Requirements

Esteves Cláudia, RISE - Research Institutes of Sweden

Engineered Lignin Products

LigniOx Lignins - Sustainable Dispersants for Froth Flotation in Mineral Processing

Bachér John, VTT Technical Research Centre of Finland Ltd

Lignin-Based Carbon Materials for Energy Storage Applications

Guizani Chamseddine, VTT Technical Research Centre of Finland Ltd

Potential of a Bio-Based Additive in the Prevention of Lignin-Induced Recalcitrance Under Severe Pretreatment Conditions

Kellock Miriam, VTT Technical Research Centre of Finland Ltd

Engineering of AqSO Biorefinery Cellulignins for High Value Applications

Muratova Madina, Aalto University

UV Spectrophotometry of Lignin Revisited - Exploring Solvents with Low Toxicity

Ruwoldt Jost, RISE PFI

Customized Catalytic Hydrolysis of Biomass to High-Quality Bio-Oil Suitable for Co- Processing in FCC Refining Unit

Shafaghat Hoda, RISE Research Institutes of Sweden AB

High Performing Wood Based Products for Industrial Scale

Reconstructing Lignocellulose Biomass Wastes into Construction Materials

Filonenko Svitlana, Max Planck Institute of Colloids and Interfaces

High-Performing Functionalized Cellulose Materials via High Consistency Processing

Harlin Ali, VTT Technical Research Centre of Finland Ltd

Low Emission Biorefineries and Side-Stream Valorization

Purification of Organic Solvents Contaminated with Wood Extractives: A Liquid-Liquid Extraction Process Using Fully Recyclable Biomimetic Solvents

Almhofer Lukas, Kompetenzzentrum Holz GmbH, Wood K plus

Recovery and Characterization of Low-Molecular-Weight Lignin from Ultrafiltered Kraft Black Liquor

Battestini Vives Mariona, Lund University, Department of Chemical Engineering

Microbial Expansin Related Proteins for Improved Enzymatic Action for Conversion of Lignocellulose to Platform Sugars

Dahiya Deepika, Aalto University

Adaptive Bayesian Optimization for Alkaline Oxidation of Birch Wood

Hörhammer Hanna, VTT Technical Research Centre of Finland Ltd

Production of Water-Soluble Carbohydrates from Aspen Wood Flour with Hydrogen Chloride Gas

Kilpinen Antti Topias, Aalto University

Hydrodeoxygenation of Black Liquor HTL-Oil Model Compounds in Supercritical Water

Rautiainen Sari, VTT Technical Research Centre of Finland Ltd

Electrochemical Reduction of Aldonic Acids into the Corresponding Aldoses in the Presence of Electrolytes Reflecting SSL Composition

Wolfsgruber Maria, Kompetenzzentrum Holz GmbH

Thermochemical Process Wastes as Carbon Material Sources

Zhurinsh Aivars, Latvian State Institute of Wood Chemistry

Novel Cellulose Modifications

Wood Derived Natural Microcrystalline Cellulose with the Functionality of Nanocellulose - New Perspective for Industry
Preegel Gert, Oü Fibenol

Structure – function – performance interrelations in materials engineering

Mapping the Properties and Performance of Nanocellulose- and Alginate-Based Cell Factory Matrices for Sustainable Photosynthetic Chemicals Production
Rissanen Ville, VTT Technical Research Centre of Finland Ltd

Solid-State Photosynthetic Cell Factories for Sustainable Chemicals Production Using Nanocellulose-Based Cross-Linked Functional Structures
Virkkala Tuuli, VTT Technical Research Centre of Finland Ltd

Nanocellulose as Bio-Template for Synthesis of Photo-catalytically Active Porous Silica
Xu Chunlin, Åbo Akademi University

Wood based textile solutions

Organosolv Catalytic Fractionation of Nordic Forestry Wood Residues to Textile Fibers
Baddigam Kiran Reddy, Stockholm University

From Industry 4.0 to Research 4.0. A Modular Approach for the Development of Cellulosic Fibres
Steffen Müller-Probandt, Dienes Apparatebau GmbH

Spindyeing Man-Made Cellulose Fibres with Vat Dyes
Nygren Nicole, Aalto University

Functionalized Biocelsol - Regenerated Cellulosic Fibres with Improved Dyeability with Anionic Reactive Dyes
Vehviläinen Marianna, VTT

Enzymatic High-Consistency Processing of Softwood and Eucalyptus Kraft Pulps for Textile Fibres
Spönla Elisa, VTT Technical Research Centre of Finland Ltd

NWBC is organized in cooperation between VTT (Finland) and RISE (Sweden).

