



2023 Nano Poster Presentations

As of 03-16-2023- Subject to Change

(🎓 Signifies that Presenter is a Student)

Porous Model Nanocellulose Films – **Tiinamari Seppanen**, *VTT Technical Research Centre of Finland Ltd, Jyväskylä, Finland, Department of Wood Science, University of British Columbia, Vancouver* 🎓

Cellulose Nanofibrils from Wood And Bark: Comparison Of Fibril Properties – **Didik Supriyadi**, *ITERA* 🎓

Colloidal Stability of Carboxylated And Sulfated Cellulose Nanocrystal Suspensions – **Madeleine Hallman**, *University Of British Columbia* 🎓

Advancing Surface Analysis Of Cellulose Nanofibers Through Trifluoroacetate Functionalities – **Robert Nicholas**, *Purdue University* 🎓

In Situ Nucleation and Condensation Of Iron Oxide Nanoparticles On Cellulose Nanofibril Model Films – **Anderson Veiga**, *University Of British Columbia* 🎓

The Effect Of Dispersion And Ionic Strength On Cellulose Nanocrystal Autofluorescence – **Marcus Johns**, *University Of British Columbia* 🎓

Lignin Triggered Non-Covalently Bonded Conjoined-Network Enabled Strong And Tough Nanocomposites – **Yongcan Jin**, *Nanjing Forestry University*

A Supercritical CO₂-Based Process to Generate Cellulose Nanofiber/Poly(lactic Acid) Composites – **Alyson Manley**, *University of Maine* 🎓

High-Yield Production of Rod-Like and Spherical Nanocellulose by Enzymatic Hydrolysis – **Valdeir Arantes**, *University of Sao Paulo*

Nanocellulose From Beer Production Waste: Evaluation of The Potential Extraction by Acid Hydrolysis – **Vitor De Lima**, *Federal University of São Carlos* 🎓

Relations Between the Lignin Removal Method and The Nanocellulose Production By TEMPO-Mediated Oxidation – **Eupidio Scolpel**, *Institute of Chemistry Unicamp* 🎓

Tuning the Properties of Citric Acid-Grafted Cellulose Nanocrystals – **Runru Liu**, *University of British Columbia* 🎓

Production Of Cellulose Nanofiber and Lignocellulose Nanofiber from Acacia Crassicarpa and Eucalyptus Pelitta – **Natalie Arazella**, *Seoul National University* 🎓

Development Of Nanocellulose Emulgels for Oral Health Care Applications – **Ariane Fernandes**, *University Of British Columbia* 🎓

Biomimetic Crosslinked Cellulose Nanocrystal Microbeads for Personal Care Products – **Gili Bar**, *University of British Columbia* 🎓

Thermo-Responsive Liquid Crystalline Phases of Cellulose Nanocrystals with Polymer Brushes – **Qiyao Sun**, *ETH Zurich* 🎓

Nanocellulose-Based Hydrogels and Aerogels for Supercapacitor Applications – **Yazan Al Haj**, *Aalto University* 🎓

Biopolymer/Cellulose Nanocrystals Composites as Renewable Biomaterial: Physicochemical Properties and Biodegradation – **Ana Oberlintner**, *National Institute of Chemistry* 🎓

The Effect of Carboxylated Cellulose Nanocrystals on A Latex-Based Pressure-Sensitive Adhesive Via Blending – **Maryam Movafagh**, *University of Ottawa* 🎓

Bioencapsulation Of Plant Growth-Promoting Bacteria by Spray-Drying – **Cesar Gutierrez**, *Universidad Iberoamericana Ciudad de Mexico* 🎓

Silylated CNC/PDMS Hybrid Membrane with Improved Permeability for H₂O/Air Separation, and Thermo-Mechanical Properties – **Nasim Alikhani**, *University of Maine* 🎓

Enhancing Latex-Based Coatings with Carboxylated Cellulose Nanocrystals – **Maria Ordonez**, *Queen's University* 🎓

Improving Adhesive Properties Of 2-Ethyl Hexyl Acrylate/Methyl Methacrylate/Styrene Emulsion Polymers Using Carboxylated Cellulose Nanocrystals – **Parisa Bayat**, *University of Ottawa* 🎓

Novel Biobased Materials: Regulatory Roadmaps, Speed Bumps, and Detours – **Kimberly Ong**, *Vireo Advisors*

Prospective life cycle assessment of cellulose nanofibrils with enzymatic pre-treatment – **Tatiane Cruz**, *University of Sao Paulo*

Effects Of Cellulose Material (CM) Source on Heterogenous Nucleation in Hybrid Fiber Composites – **Caitlyn Clarkson**, *Oak Ridge National Laboratory*

Sustainable All-Cellulose Foam with Reinforced Structure Through Incorporating Nanofibrillar Networks – **Hao Sun**, *University of British Columbia* 🎓

Moisturizing And Rheological Properties of Nanocellulose/Hyaluronic Acid/Poly- Γ -Glutamic Acid Blends – **Hakmyoung Lee**, Seoul National University 🎓

Top-Down Synthesis of Multifunctional Super Elastic Wood Foam – **Xuetong Shi**, University of British Columbia 🎓

TOCNF-Based Colorimetric Indicators to Monitor Meat Freshness – **Hossein Khanjanzadeh**, Kyungpook National University

Red Wine Vinegar Waste for Oxidation Catalysis – **Marina Mehling**, University of British Columbia 🎓

Do The Cellulose Filament Films Fulfill the Oxygen Barrier Properties Required for Future Eco-Friendly and Sustainable Packaging Materials? – **Seyedrahman Djafaripetroudy**, University of Quebec

Thin Films of Corn Starch for Packaging Production, Reinforced With CMF: Study Of Biodegradation In Soil By Bartha's Respirometry Method – **Vitor De Lima**, Federal University of São Carlos 🎓

Thermally Insulating Foams Based on Upcycled Aramid Nanofibers and Nanocellulose – **Carina Schiele**, Stockholm University 🎓

Hydrophobization Of Cellulose Nanofibrils for Incorporation In Epoxy Composites – **Kevin Oesef**, University of British Columbia 🎓

Tailored Cellulose Nanofiber/Pectin Interactions in Active Composite Films – **Giuliana Franco**, University of British Columbia 🎓

Stabilization Of Alkenyl Succinic Anhydride Emulsion Using Cellulose Nanomaterials – **Jinseung Kim**, Seoul National University 🎓

Effect Of Characteristics of Cellulose Nanomaterials On Stabilization Of Wet Foams For The Production Of Oven-Dried Foams – **Hye Jung Youn**, Seoul National University

Evaluation Of Dispersibility of Cellulose Fibers in Cellulose Fiber Reinforced Polypropylene Composites – Choi **Jin Hyuk**, Seoul National University 🎓

Photochromic Properties of Carboxymethylated Cellulose Nanofiber/WO₃ Nanoparticle Film – **Junghwan Ryu**, Seoul National University 🎓

Water as a Drainage Aid Enabled Rapid Preparation Of Highly Transparent Cellulose Film For Plastic Replacement – **Penghui Zhu**, University of British Columbia 🎓

Biorenewable Composite Films Based on Nanocellulose-Reinforced Polylactic Acid – **Nosa Idahagbon**, Purdue University 🎓

The Influence of Surface Charge on The Capacitance Properties Of TEMPO Oxidized CNF – **Jiaying Zhu**, University of British Columbia 🎓

Constructing A Fe-Doped Graphitic Carbon Nitride/Nanocellulose Hybrid Nanozyme and Investigating Its Peroxidase Activity – **Gujoong Kwon**, Kangwon National University

Dye Removal Potential of Dialdehyde and Polyethyleneimine Crosslinked Nanocellulose Aerogel – **Gujoong Kwon**, Kangwon National University

CNF-Mycelium Nanocomposites for Heavy Metal Remediation – **Victoria French**, *University of British Columbia* 🎓

Development Of Antimicrobial Films from Agricultural and Aquaculture Waste – **Marianelly Esquivel**, *Universidad Nacional De Costa Rica* 🎓

3D Printed Cellulose Nanofibril (CNF)-Based Multilayered Porous Structures Using Microwave Irradiation as Primary Drying Technique – **Md Musfiqur Rahman**, *University of Maine* 🎓

Enhancement Of CNF Barrier Properties by Nanofibril Alignment - **Nabanita Das**, *University of Maine* 🎓

Wood Foam Stability, Thermal Conductivity, and Mechanical Properties – **Elizabeth Dobrzanski**, *University of British Columbia* 🎓

Biosynthesis of silver nanoparticles (AgNPs) by novel microbial species isolated from Sargassum Spp. – **Gustavo Zamudio Cortes**, *Universidad Iberoamericana Ciudad de México* 🎓

The Role of Surfactant Nature in the Stability and Performance of Water-rich PDMS Emulsions for Non-Wettable Textile Coatings – **Daniel Lopez**, *UNALMED* 🎓

Air dried clay/lignocellulose foam for fire-retardant thermal insulation – **Yeling Zhu**, *University of British Columbia*

Effect of Carboxymethyl Cellulose and Polyvinyl Alcohol on the Cracking of Particulate Films – **Hak-lae Lee**, *Seoul National University*

Optimization of cellulose phosphorylation to produce high barrier, transparent and fire retardant cellulose nanomaterials - **Arnaud Benard**, *Innovation engineer/ PhD student* 🎓

Cellulose Nanocrystal Studies for Coating Application, **Hideaki Nagahama**, *Toyo Seikan Group Holdings Ltd.*

Mechanical Characterization of Lignocellulosic Foams using Multi-scale Compression Modeling and Testing. **Mehdi Tajvidi**, *University of Maine*