



## International Conference on Nanotechnology for Renewable Materials • 2017

5 – 8 June 2017 • Montreal, Quebec, Canada

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- Analysis of Effect the CMC and Surfactant on the Rheology and Curtain Stability of MNFC Curtain Coating Colors - **Abdelaadim Tibouda**, University of Quebec in Trois-Rivières
- Ultra-Light, Yet Mechanically Robust Cellulose Ester Aerogels for Environmental Remediation - **Anurodh Tripathi**, North Carolina State University
- Mechanochemical Phosphorylation of Cellulose Nanocrystals with Solid Phosphorylating Reagents - **Blaine Fiss**, McGill University
- Modification of TEMP-Oxidized Cellulose Nanofibrils to Hydrophobic Surface – **Byung-Dae Park**, Kyungpook National University
- An Overview of CNC Manufacturing Cost, Guidelines for Research Opportunities Based on Cost and Financial Risk Analysis - **Camilla Abbati de Assis**, NC State University
- Control of Porous Structure of Paper in a Continuous Process - **Christian Mair**, KTH - Royal Institute of Technology
- Effect of Bound Oligosaccharide Layers and Surface Charge on Cellulose Nanocrystal-Water Interactions - **Elina Niinivaara**, McMaster University
- Mill Production Trial of Wood Fibre Insulation Boards Reinforced by Cellulose Filaments - **Fabrice Roussière**, FPInnovations
- Effect of Pretreatment of Pulp Fibers on Characteristics of Cellulose Nanofiber – **Hak Lae Lee**, Seoul National University
- Structure-Process-Property Relationships in Extrusion Based Additive Manufacturing of Cellulose Nanocrystal Composites - **Jacob Fallon**, Virginia Tech
- Effects of Chemical Modifications and Manufacturing Process on Dispersibility of Cellulose Nanocrystals (CNCs) in Polypropylene (PP) Matrix - **Jae Gyoung Gwon**, National Institute of Forest Science
- Magnetic CNC for Protein Separation - **Jiaqi Guo**, Aalto University
- Fluorescent Carbon Quantum Dots Assembled on Cellulose Nanocrystals for Bio-Imaging - **Jiaqi Guo**, Aalto University
- The Potential of Enzymatic (Lytic Polysaccharide Monooxygenase (LPMO), Endoglucanase and Xylanase) Pretreatments to Enhance Nanofibrillated Cellulose Production and Properties- **Jinguang Hu, Dong Tian, Jack N. Saddler, and Scott Rennecker**, University of British Columbia
- Tailored and Integrated Production of Carboxylated Cellulose Nanocrystals (CNC) with Nanofibrils (CNF) Maleic Acid Hydrolysis - **Junyong Zhu**, Forest Products Laboratory, U.S. Forest Service



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- Integrated Production of Lignin Containing Cellulose Nanocrystals (LCNC) and Nanofibrils (LCNF) Using an Easily Recyclable Di-Carboxylic Acid- **Junyong Zhu**, Forest Products Laboratory, U.S. Forest Service
- The Influence of Functionalization and Drying of Cellulose Nanofiber Film Properties - **Kendra Fein**, University of Maine
- Viscoelastic Characterization of Gelatin-Cellulose Nanocrystals Aqueous Bionanocomposites - **Liliane Samara Ferreira Leite**, Federal University of São Carlos
- Super Absorbent Hydrogels: Crosslinking Between Nano Cellulose and Carbapol - **Malladi Nagalakshmaiah, Malladi Rajinipriya and Mathieu Robert**, University of Sherbrooke
- Porous N/P-Doped Carbon from Coconut Shells with High Electrocatalytic Activity for the Oxygen Reduction Reaction - **Maryam Borghei**, Aalto University
- Passive Microrheology Using Light Scattering Techniques for Quick Analysis of Cellulose Nanocrystals – **Serge Dandoche**, Formulacion, Inc.
- Cellulose Fibers Functionalized by Metal Nanoparticles Stabilized in Dendrimer for Formaldehyde Decomposition and Antimicrobial Activity - **Mekuriaw Assefa**, National Taiwan University of Science and Technology
- Wet-Spinning of Cellulose Nanofibril Hydrogels - **Meri Lundahl**, Aalto University
- Asymmetric Cellulose Nanocrystals via NHS/EDC Coupling of Thiol Groups to Reducing End - **Meri Lundahl**, Aalto University
- Performance of nFOG™ Coated Thin Nanocellulose-Coatings in Glass Laminates - **Mikko Tuominen**, SP Technical Research Institute of Sweden
- Polyurethane Elastomer Enhanced with Cellulose Nanocrystals - **Min Haeng Heo**, Korea University of Science & Technology (UST)
- Tunable Softening and Toughening of Individualized Cellulose Nanofibers-Polyurethane Urea Elastomer Nanocomposites - **Minwoo Lee**, Korea Research Institute of Chemical Technology
- Optimization of Cellulose Nanocrystal Aspect Ratio and Colloidal Stability through Acid Hydrolysis with Phosphoric Acid - **Oriana Vanderfleet**, McMaster University
- Pineapple Cellulose Nanocrystals (CNC) Film by Casting Continuous - **Pedro Ivo Cunha Claro**, Federal University of São Carlos
- Structural and Rheological Behavior of CNC Particles in Water/PEG Solution - **Quentin Beuguel**, CREPEC, Polytechnique Montreal
- Advanced Routes to Novel-Nanomaterials Using a Synthetic Biology Approach - **Rachael Cullinan**, University of Birmingham



- Effects of Cellulose Nanofibril in Polyurethane Based Lamination Adhesives - **Roland Gong**, University of Wisconsin - Stevens Point
- Antibacterial Materials Development with Contact Active and Micro-Nano Structured Surfaces - **Seema Saini**, University Grenoble Alps - LGP2/Grenoble INP
- Emulsification Behavior of Amphiphilic Nanocellulose Prepared by Aqueous Counter Collision - **Shingo Yokota**, Kyushu University
- Designing of Combined Nano and Microfiber Network by Immobilization of Oxidized Cellulose Nanofiber on Polycaprolactone Fibrous Scaffold - **Sun-Young Lee**, Korea Forest Research Institute
- Cationic Cellulose Nanocrystals as Effective and Trigger-Responsive Flocculants for Harvesting of Chlorella Vulgaris Microalgae - **Wim Thielemans**, KU Leuven
- Development of Cellulose Nanofiber-Reinforced Cellulose Sponge Disks for Cu<sup>2+</sup> Recovery - **Yinchao Xu**, University of Tsukuba