



## TECHNICAL PROGRAM

As of 3-29-22 Subject to change

<b>Monday 13 June 2022</b>	
<b>8:30am – 14:30</b>	<b>**Aalto University and VTT Tour</b>
<b>9:00am - 12:00</b>	<p style="text-align: center;"><b>** Commercializing Cellulose Nanomaterials - International and Emerging Requirements for Safe Manufacturing and Product Development Workshop</b></p> <p style="text-align: center;">Instructors: <i>Jo Anne Shatkin, James Ede, and Kimberly Ong, Vireo Advisors LLC</i></p>
<b>12:00 - 13:30</b>	<b>Student Committee Lunch</b>
<b>13:30 – 16:00</b>	<p style="text-align: center;"><b>**CNM Characterization Workshop – Primary Characterization</b></p> <p style="text-align: center;"><i>Lead Instructors: Robert Moon, USFS and Johan Foster, University of British Columbia</i></p>
<b>16:00 - 17:30</b>	<p><b>Session 1: OPENING SESSION AND KEYNOTE</b></p> <p><b><i>Saving the World is Good Business</i></b></p> <p><b><i>Nina Kopola, Director General &amp; CEO, Business Finland</i></b></p>
<b>17:30 - 19:00</b>	<b>Welcome Reception &amp; Trade Fair</b>
<b>19:30 - 20:30</b>	<p><b>Young Professionals Mixer</b></p> <p><i>Helsinki City Center</i></p>

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\*\*Additional registration fee required

<b>Tuesday 14 June 2022</b>			
<b>8:30am – 10:00am</b>	<b>Session 2: Paper &amp; Packaging I</b> Session Chair: Room:	<b>Session 3: Electronic Materials and Photonics for Emerging Applications</b> Session Chair: Room:	<b>Session 4: Cellulose Nanofibril Modification for Functional Wood</b> Session Chair: Room:
<b>8:32</b>	Overcoming the Sheet Sealing Phenomenon in High Nanocellulose Content Papers – <b>Hamidreza Ahadian</b> , Aalto University	Strong, Conformal, and Stretchable Cellulose Nanocomposite Films For Skin-mounted Electronics - <b>Vinay Kumar</b> , VTT Technical Research Centre of Finland	Enabling High Loadings of Microfibrillated Cellulose For Application in Wood Coatings with Improved Functionalities: A Novel Approach Using Emulsion Polymerisation - <b>Claudia Schirp</b> , Fraunhofer Institute for Wood Research, WKI
<b>8:54</b>	In Situ Zinc Oxide Production on Nanocellulose for Active Food Packaging - <b>Francisco Silva</b> , Universidade do Minho	Dopamine-conjugated Carboxymethylcellulose and Intermolecular Self-Assembly with Carbon Nanotubes for Multifunctional Wearables - <b>Tianyu Guo</b> , University of British Columbia	Strategies on Improving Flame Retardancy of Cellulose Nanofibrils Aerogel - <b>Feng Jiang</b> , University of British Columbia
<b>9:16</b>	Energy and Sensing Technologies Towards Green Smart Packaging – <b>Gustav Nystrom</b> , Empa	Cellulose Optical Fibres for Advanced Sensing Applications - <b>Aayush Kumar Jaiswal</b> , VTT Technical Research Centre of Finland	Nanoclay-incorporated Oven-dried Cellulose Nanofibril Foam for Eco-friendly Flame Retardant - <b>Shin Your Park</b> , Seoul National University
<b>9:38</b>	Cellulose-based Biofoam for Temperature-controlled Packaging - <b>Xiao Zhang</b> , Washington State University	Sustainable Superblack Materials From Wood For Light Management - <b>Bin Zhao</b> , Aalto University	Use of $\beta$ -cyclodextrin Grafted Chitosan Immobilized onto Delignified Wood as Adsorbent in Water Remediation - <b>Diego Gomez Maldonado</b> , Auburn University
<b>10:00am - 10:30am</b>	<b>Break</b>		
<b>10:30am - 12:00</b>	<b>Session 5: Paper &amp; Packaging II</b> Session Chair: Room:	<b>Session 6: Biobased Materials for Energy Storage</b> Session Chair: Room:	<b>Session 7: CNF for applied materials</b> Session Chair: Room:
<b>10:32</b>	Pilot Machine Trials with a New MFC Surface Applicator for Paper and Board Production - <b>Marc Foulger</b> , Valmet	Nanocellulose for polymer electrolyte membranes fuel cells - <b>Joice Jaqueline Kaschuk</b> , Aalto University	Interfacially Separated Micro-Aerogels from Hybrid Emulsions - <b>Milad Kamkar</b> , University of British Columbia

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10:54	Cellulose Nanomaterials for Tree Fruit Frost Protection - <b>Xiao Zhang</b> , Washington State University	Cellulose Nanomaterials Enable Lithium-ion, Sodium-ion and Zinc-ion Batteries with Extended Operation Lifespans – <b>Erlantz Lizundia</b> , University of the Basque Country	Improvement of the Structural Stability of the Oven-dried CNF Foam - <b>Hye Jung Youn</b> , Seoul National University
11:16	Role of Rheology in Roll-To-Roll Coating Of High-Solids Content Nanocellulose - <b>Rajesh Koppolu</b> , Åbo Akademi University	Emerging Solid Ionic Woods for Hygro-thermoelectric Energy and Electrochemical Reactors from Ambient Air - <b>Detao Luo</b> , South China University of Technology	Screen-Printing of Micro/Nano-Fibrillated Cellulose for an Improved Moisture Management and Abrasion Resistant Properties of Flame-Resistant Fabric - <b>Vanja Kokol</b> , University of Maribor
11:38	Cellulose Nanofiber Coatings for Food Packaging Applications - <b>Gilberto Siqueira</b> , Empa	Dry-Jet Wet Spinning of Tempo Oxidized Nanocellulose Conduits for Energy Storage Textiles - <b>Guillermo Reyes</b> , Aalto University	Biomass Valorization of Sargassum (Sargassum Sp.) Cellulose Micro- And Nanofibrils to Reinforce And Enhance The Performance of Fiber–Cement Composites - <b>Jose Campos-Teran</b> , Universidad Autónoma Metropolitana-Cuajimalpa
12:00 - 14:00	<b>Session 8: Lunch with Presentation Sponsored by FiberLean® Technologies Ltd.</b>  Speaker: Room:		
14:00 - 15:30	<b>Session 9: Adhesives</b> Session Chair: Room:	<b>Session 10: Renewable Materials I</b> Session Chair Room:	<b>Session 11: Biomedical</b> Session Chair Room:
14:02	The enhancement of UF glued particleboard by cellulose nanofibers - <b>John Simonsen</b> , Oregon State University	Production of Various Carboxylated Cellulose Nanocrystals from Beer Residuals - <b>Timo Paakkonen</b> , Aalto University	Cellulose Nanocrystal Reinforced Amphiphilic Polymer Conetworks Based on Peptide Polymer Hybrids - <b>Sara Roldan Velasquez</b> , University of Strathclyde
14:24	Scale Up the Application of Cellulose Nanofibril into Polyurethane Based Adhesives - <b>Roland Gong</b> , University of Wisconsin-Stevens Point	Unique Reactivity of Cellulose Mediated by Confined Water - <b>Marco Beaumont</b> , BOKU University	Brush and Linear PEG-Grafted Cellulose Nanocrystals for Drug Delivery - <b>Megan Roberts</b> , Mount Allison University

<b>14:46</b>	Dried vs. Never-Dried Carboxylated Cellulose Nanocrystals: Branching Out to Stickier Nanocomposite Adhesives - <b>Vida Gabriel</b> , <i>University of Ottawa</i>	In Situ Oligosaccharide Surface Modification of Cellulose Nanocrystals - <b>Elina Niinivaara</b> , <i>University of British Columbia</i>	The Effect of Surface Chemistry Modification of Wood-Based Nanocellulose on Rat Stem Cell Response - <b>Kristin Syverud</b> , <i>RISE PFI</i>
<b>15:08</b>	Cellulose Nanocrystal Surface Property Effects on Emulsion-based Adhesive Performance - <b>Marc Dube</b> , <i>University of Ottawa</i>	Novel Enzymatic Tools to Fabricate Nanofibrillated Cellulose - <b>Ana Villares</b> , <i>INRAE</i>	Cellulose Nanocrystals Modified Substrates for Mechanical Compatibility of Stem Cells - <b>Jeremy Woodcock</b> , <i>NIST</i>
<b>15:30 - 16:00</b>	<b>Break</b>		
<b>16:00 - 17:30</b>	<b>Session 12: In-situ Polymerization &amp; Thermosets</b> <i>Session Chair:</i> <i>Room:</i>	<b>Session 13: Product Stewardship and Safety in Applications</b> <i>Session Chair:</i> <i>Room:</i>	<b>Session 14: Rapid Fire Moderator:</b> <b>Room:</b>
<b>16:02</b>	Nanocellulose for Stronger or Lighter Glass Fiber Polyester Composites - <b>Kyriaki Kalaitzidou</b> , <i>Georgia Institute of Technology</i>	Safety, Regulation, and Testing of Novel Bio-Based Materials For Food Packaging Applications - <b>Kimberly Ong</b> , <i>Vireo Advisors</i>	
<b>16:22</b>	Cellulose Nano Crystal Acetylation: A Straight-Forward Modification to Improve the Desalination Permeability-Selectivity Trade -Off of Reverse Osmosis Membranes - <b>Fatemeh Abedi</b> , <i>University of Ottawa</i>	Health and Safety Assessments of Functionalized Cellulose Materials: Simulated Gastrointestinal Digestion And Exposure to a Gut Co-culture Model - <b>Amanda Sevcik</b> , <i>Baylor University</i>	
<b>16:46</b>	Reactive Cellulose Nanomaterials for Polymer Composites - <b>Doug Fox</b> , <i>American University</i>	Metabolite Detection and Identification of Fibrillated Cellulose Materials Subjected to Simulated Gastrointestinal Digestion: Method Development Using Liquid Chromatography Mass Spectrometry - <b>Chancy Colom</b> , <i>Baylor University</i>	

<b>17:02</b>	Aqueous Functionalization of Cellulose Nanofibrils By Grafting-Through Polymerizations to Create Reinforcements for Composites - <b>William Gramlich</b> , University of Maine	Safer by Design Toolbox to Advance Functionalized Cellulose Nanomaterials - <b>James Ede</b> , Vireo Advisors	
<b>17:30 - 18:30</b>	<b>Session 15: Poster Session and Student Poster Competition</b> Room:		

<b>Wednesday 15 June 2022</b>			
<b>7:30am – 8:00am</b>	*NANO Research Committee Meeting (Subcommittee Chairs Only) Room:		
<b>8:00am – 8:30am</b>	*NANO Research Committee Meeting (Full Committee) Room:		
<b>8:30am - 10:00am</b>	<b>Session 16: Cellulose Nanocrystals for Applied Materials</b> Session Chair: Room:	<b>Session 17: Renewable Production II</b> Session Chair: Room:	<b>Session 18: Self-Assembled and Ordered Materials I</b> Session Chair: <b>Blaise Tardy</b> , Aalto University Room:
<b>8:32</b>	Octylamine Modified Cellulose Nanocrystal Enhanced Stabilization of Pickering Emulsions for Self-Healing Composite Coatings - <b>Steve Eichhorn</b> , Bristol Composites Institute (ACCIS)	Acidic Thiourea Delignification of Softwood Tt Produce Cellulose Nanofibers - <b>Juho Sirvio</b> , University of Oulu	Formation of Channel Structures in the Cellulose Nanofiber Hydrogel - <b>Jinho Hyun</b> , Seoul National University
<b>8:54</b>	The Sticky Road to Understanding the Effect of Cellulose Nanocrystal Surface Chemistry on the Performance of Latex-Based Pressure-Sensitive Adhesives - <b>Julia Antoniw</b> , University of British Columbia	Comparison of Green Fabrication Approaches of Lignin Nanoparticles from Different Technical Lignins - <b>Kirsi Mikkonen</b> , University of Helsinki	Engineering Functional Nanocellulose Porous Materials through the Assembly of Metal-Phenolic Networks - <b>Bruno Mattos</b> , Aalto University

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<b>9:16</b>	Bicontinuous Emulsions via Chitin Nanocrystal Jamming And Their Aerogel Templating - <b>Yi Lu</b> , University of British Columbia	Enzymes Recovery during Cellulose Fibers in Situ Hydrolysis In A Twin-Screw Extruder for Cellulose Nanofibrils Production - <b>Gabriel Banvillet</b> , University of British Columbia	Superstable Wet Foams and Lightweight Solid Composites from Nanocellulose and Hydrophobic Particles - <b>Roozbeh Abidnejad</b> , Aalto University
<b>9:38</b>	Processes for Drying Cellulose Nanocrystal Pickering Emulsions into Oil Powders - <b>Marc Massicotte</b> , University of British Columbia	Sustainable and Tailored Production of Carboxylated Cellulose Nanomaterials (with or without lignin) using Maleic Acid - <b>Junyong Zhu</b> , USDA Forest Products Lab	3D Printing of Nanocellulose-Based Inks Embedding Diatoms to Assess Water Quality - <b>Rani Boons</b> , Empa
<b>10:00am - 10:30am</b>	<b>Break</b>		
<b>10:30am - 12:00</b>	<b>Session 19: Understanding Cellulose Nanomaterials for High End Applications</b> Session Chair: Room:	<b>Session 20: Renewable Production III</b> Session Chair: Room:	<b>Session 21: Self-Assembled and Ordered Materials II</b> Session Chair: Tiffany Abitbol, RISE Room:
<b>10:32</b>	Bio-Inspired Preparation of Dissolved Cellulose on Alkali Conditions for Multidimensional Hierarchical Structures - <b>Guillermo Reyes</b> , Aalto University	Quality Analysis of Micro-Fibrillated Cellulose Production Trial Results - <b>Marc Foulger</b> , Valmet	Surface Adsorption of Cellulose Derivatives on Cellulose Nanocrystals - <b>Francesco D'Acerno</b> , INRAE
<b>10:54</b>	Streamlined Approach for One-Pot Synthesis of Functionalized Nanocelluloses - <b>You-Lo Hsieh</b> , University of California, Davis	Cellulose Fiber Mechanical Fibrillation Process Optimization: A Computational Flow Dynamics Approach - <b>Amaud Venard</b> , Univ. Grenoble Alpes, CNRS, Grenoble INP, LGP2	Exploring the Impact of Functional Groups on the Interfacial Interactions of Constructs of Natural Biopolymers - <b>Blaise Tardy</b> , Aalto University
<b>11:16</b>	Cellulose Nanocrystals for Adsorption and Sensing Applications - <b>Virginia Davis</b> , Auburn University	Once Dried Nanocellulose's Functionality After Drying and Redispersing Phase and Performance in Applications - <b>Jan Lehmonen</b> , Pennsylvania State University	Self-assembled Nanocellulose Meets Swimming Microalgae: Unveiling Living Colloid Dynamics in Cholesteric Liquid Crystals - <b>Guang Chu</b> , Aalto University

11:38	Coupled Electromagnetic and Heat Transfer Analysis for Drying of Ligninocellulosic Foams Made using Cellulose Nanofibrils - <b>Mohammad Tauhiduzzaman</b> , University of Maine	Methods to produce dry nanoscale cellulose nanocrystal powders: challenges and opportunities – <b>Douglas Gardner</b> , University of Maine	Study of Glucanase Diffusion Behavior in A Dense, Organized Cellulosic Medium Mimicking Plant Cell Walls - <b>Hugo Voisin</b> , INRAE - Centre de recherche Pays de la Loire
12:00 - 14:00	<b>Session 22 - Lunch with Presentation Sponsored by Valmet</b> Speaker:  Room:		
14:00 - 15:30	<b>Session 23: Qualifying Materials for Sustainability</b> Session Chair Room:	<b>Session 24: Elucidating CNCs Structure to Enhance Applicability and Performance</b> Session Chair: Room:	<b>Session 25: Paper &amp; Packaging III</b> Session Chair: Room:
14:02	Qualifying Novel Bio-Based Materials for the Market: EHS, Sustainability and Beyond - <b>Jo Anne Shatkin</b> , Vireo Advisors	What are the Main Factors Governing The Thermal Stability of Dry Vs. Wet Cellulose Nanocrystals? <b>Emily Cranston</b> , University of British Columbia	Continuous production of nanocellulose films with limited heating - <b>Karl Hakansson</b> , RISI
14:24	Consumer Gatekeeping in Sustainable Materials Streams: An Application in Cellulose Nanomaterials - <b>Nasreen Khan</b> , Georgia Institute of Technology	High-Resolution Solution-State NMR Analysis of Nanocelluloses in Ionic Liquid Electrolyte - <b>Alistair King</b> , University of Helsinki / VTT	CNF coatings for all-biobased molded pulp lidded containers - <b>Jeffrey Youngblood</b> , Purdue University
14:46	CNC/AgNP Hybrids Designed for Safer-by-design Biocides in Paints - <b>Isabelle Capron</b> , INRAE	Tunable and Controllable CNC Surface Properties for Organic Electronic Applications - <b>Wadood Hamad</b> , FPIInnovations	Modification of Nanocellulose Films in Deep Eutectic Solvents Using Vinyl Esters - <b>Mathias Lakovaara</b> , University of Oulu
15:08		Autofluorescent Spectroscopy for Rapid Quality Control Monitoring of Cellulose Nanocrystals - <b>Marcus Johns</b> , University of British Columbia	Microtemplating of Nanopapers for Tunable Roughness and Hydrophobicity - <b>Gabrie Banvillet</b> , University of British Columbia
15:30 - 16:00	<b>Break</b>		



16:00 - 17:30	<b>Session 26: End User Panel</b> <b>Moderator:</b> Hamdy Khalil Room:
	<b>Panelist:</b> <i>Johana Kuncova-Kallio, UPM Biomedicals</i> <i>Juha Salmela, Spinnova</i> <i>Ari Borg, Suzano</i>
18:30 - 22:00	<b>**Conference Dinner</b> <b>18:30 - 22:00</b> <b>Restaurant Saaristo</b>

<b>Thursday</b> <b>16 June 2022</b>			
<b>8:30am – 10:00am</b>	<b>Session 27: Biocomposites &amp; Biodegradable Polymers</b> Session Chair: Room:	<b>Session 28: Responsive Materials</b> Session Chair: Room:	<b>Session 29: OPEN</b> Session Chair: Room:
<b>8:32</b>	Effect of Chitin-Protein Interactions in the Fabrication of High Performance Materials - <b>Luiz Greca, Aalto University</b>	Nanocellulose Implant Mesh Matrices - <b>Rubina Ajdary, Aalto University</b>	
<b>8:54</b>	Surface-Modified Microfibrillated Cellulose Reinforced Biocomposites - <b>Kai Li, Oak Ridge National Laboratory</b>	Light-Triggered Softening In 3d Printed Cellulose Nanocomposites - <b>Luca Muller, Empa</b>	
<b>9:16</b>	Biodegradable Nanostructured Plastics With >95 Wt% Kraft or Ball-Milled Lignin Contents Can Surpass Polystyrene In Strength - <b>Simo Sarkanen, University of Minnesota</b>	4D Magnetic-Responsive Nanocellulose Soft Materials - <b>Rubina Ajdary, Aalto University</b>	
<b>9:38</b>	Effect of Electrospinning Parameters on Polylactic Acid / Nanocellulose Biocomposite Fibers - <b>Burcu Sari, Middle East Technical University</b>	Setting priorities in CNF particle size measurement: What is needed vs. what is feasible - <b>Robert Moon, USDA Forest Products Lab</b>	
<b>10:00am -10:30am</b>	<b>Break</b>		

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<b>10:30am-12:00pm</b>	<b>Session 30: Grafting &amp; Drying</b> Session Chair: Room:	<b>Session 31: Sustainable Production</b> Session Chair: Room:	<b>Session 32: OPEN</b> Session Chair: Room:
<b>10:32</b>	A Facile Aqueous-Phase Polyimine Functionalization of Cellulose for Effective Drying and Composite Reinforcement - <b>Meghan Lamm</b> , Oak Ridge National Laboratory	Natural Cellulose as a Ultrasonic Welding of Papers Coated with Cellulose Microfibrils and Nanocrystals - <b>Quentin Charlier</b> , LGP2	
<b>10:54</b>	Melt Extrusion of Reactive Cellulose Nanocrystal (CNC)/Poly (Methyl Methacrylate) (PMMA) Nanocomposite - <b>Whirang Cho</b> , American University	Sustainable Approaches to Produce Cellulose Nanocrystals with Carboxylic Acid Moieties - <b>Julien Bras</b> , Univ. Grenoble Alpes, Grenoble INP, CNRS, LGP2	
<b>11:16</b>	Nanocellulose as Reinforcement in PLA Based Packaging Materials: Dry or Wet Addition in Extrusion Processes? - <b>Soraya Sánchez Ballester</b> , ITENE	Challenges in Water Treatment Based on Cellulose Nanomaterials - <b>Andreas Mautner</b> , University of Vienna	
<b>11:38</b>	Novel Lattice Structures Made of Wood Flour and Cellulose Nanofibrils Using Microwave Drying - <b>Islam Hafez</b> , University of Maine	Dewatering and Drying Cellulose Nanofiber/Poly(Lactic Acid) Biocomposites Using Supercritical CO <sub>2</sub> without the Need for an Intermediate Ethanol Exchange - <b>Alyson Manley</b> , University of Maine	
<b>12:00 - 14:00</b>	<b>Session 34: Keynote Presentation and Lunch</b> <b>Keynote Speaker:</b> Alexander Bismarck, University of Vienna <b>Room:</b>		
<b>14:00-15:30</b>	<b>Session 33: Paper &amp; Packaging IV</b> Session Chair: Room:	<b>Session 34: Self-Assembled III</b> Session Chair: Room:	<b>Session 35: Student Session: Career Roundtable</b> Moderator: Room:
<b>14:02</b>	Nanocellulose from Industrial Residues Applied in Paper and Board Industry - <b>Pilar Albaladejo</b> , ITENE	Influence of Zeta Potential On the Drainage Rate and Film Properties of Cellulose Nanofiber/Precipitated Calcium Carbonate Suspensions - <b>Pradnya Rao</b> , University of Maine	<b>Panelist:</b>
<b>14:24</b>	Turning Recycled Cardboard Containers into High Gas Barrier UV-Protective Film for Packaging Applications - Md <b>Ikramul Hasan</b> , University of Maine	The Presence of Pectin in Birch Glucuronoxylan (GX) Is Essential for the Formation of Nanoscale Oil-in-water Emulsion Droplets - <b>Maarit Lahtinen</b> , University of Helsinki	

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14:46	Minimizing Oxygen Permeability of Cellulose/Chitin Nanomaterials as Multilayer Coatings By Tuning Chitin Deacetylation - <b>Yue Ji</b> , Georgia Institute of Technology	Cellulose Nanomaterials as Flotation Agents: Interactions Of Silylated Cncs With Silica and Sulfidic Mineral Surfaces - <b>Feliciana Ludovici</b> , University of Oulu	
15:08	Commercialising Microfibrillated Cellulose Products: Regulatory Aspects - <b>David Skuse</b> , FiberLean Technologies Ltd.		
15:30 - 16:00	<b>Break</b>		
16:00-17:30	<b>Session 36: Paper &amp; Packaging V</b> Session Chair: Room:	<b>Session 37: Applications for Sustainable Materials</b> Session Chair: Room:	<b>Session 38:</b> Session Chair: Room:
16:02	Microfibrillated Cellulose in All Cellulosic Packaging Materials, Adhesion of Microfibrillated Cellulose Layer to Board and Papers - <b>Lars Axrup</b> , Stora Enso	Valida – Natural Cellulose as a Multifunctional Stabilizer in Chemically Foamed Concrete - <b>Yanwu Zhou</b> , Sappi Netherlands Services BV	
16:22	The Unique Properties of Microfibrillated Cellulose and Their Exploitation in Paper and Paperboard - <b>Jon Phipps</b> , FiberLean Technologies Ltd.	Improved Filtration Efficacy And Breathability of Eco-Friendly Biofilters Against SARS – Cov 2 Virus Using Rotary Jet Spinning Technology - <b>Gloria Oporto</b> , West Virginia University	
16:46		Naturally Hydrophobic Lightweight Materials for Oil Spill Clean Up - <b>Elisa Ferreira</b> , University of British Columbia	
17:02		The Adsorption Behavior of Wood-Based Nanomaterials Towards Pharmaceuticals - <b>Melissa Agustin</b> , University of Helsinki	
17:30 – 18:30	<b>2022 Nano Conference Wrap up Meeting</b> Room:		

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<b>Friday 17 June 2022</b>	
<b>8:00am – 11:00am</b>	Producers Committee Meeting (Invitation Only) <i>Room:</i>
<b>11:00am – 12:00</b>	2023 Nano Conference Planning Meeting (Invitation Only) <i>Room:</i>