



## TECHNICAL PROGRAM

As of 4-11-19 - Subject to change – please check the conference app for updates.

<b>Monday 3 June 2019</b>	
<b>9:00 - 10:00</b>	<b>TAPPI Welcome</b> Professor Emily Cranston, University of British Columbia <b>TAPPI Keynote</b> Mr. Masafumi Yamasaki, Nippon Paper Industries Co., Ltd., Vice President <i>Convention Hall A</i>
<b>10:00 – 10:30</b>	<b>Break</b> <i>Convention Hall B</i>
<b>10:30 – 11:15</b>	<b>Keynote</b> <i>Convention Hall A</i> Overview of Canada – Professor Emily Cranston, University of British Columbia
<b>11:15 – 12:00</b>	<b>Keynote</b> <i>Convention Hall A</i> Overview of Europe – Professor Lars Berglund, KTH Royal Institute of Technology
<b>12:00 - 13:30</b>	<b>Lunch Provided</b> <i>Convention Hall B</i>
<b>13:30 – 14:15</b>	<b>Keynote</b> <i>Convention Hall A</i> Overview of US – Dr. Alan Rudie, USDA Forest Product Laboratory
<b>14:15 – 15:00</b>	<b>Keynote</b> <i>Convention Hall A</i> Overview of China - Professor Dr. Yong Huang, Technical Institute of Physics and Chinese Academy of Sciences
<b>15:00 - 15:30</b>	<b>Break</b> <i>Convention Hall B</i>
<b>15:30 – 16:15</b>	<b>TAPPI Gold Sponsor Speaker</b>
<b>16:15 – 17:00</b>	<b>Keynote</b> <i>Convention Hall A</i> Overview of Japan, Professor Akira Isogai, University of Tokyo
<b>17:00 - 18:30</b>	<b>Welcome Reception</b> <i>Convention Hall B</i>
<b>18:30 - 20:00</b>	<b>Young Professionals Mixer</b> <i>Convention Hall A</i>

Abbreviation Key:

CNF = Cellulose nanofibers

CNC – Cellulose nanocrystals

CNM = Cellulose nanomaterials

<b>Tuesday 4 June 2019</b>			
<b>8:30 – 10:00</b>	<b>Session 2: Automotive Processing</b>	<b>Session 3: Emulsions, Gels and Foams I</b>	<b>Session 4: Production of CNFs</b>
<b>8:32</b>	CNF Reinforced Thermoplastic Resins for Lightweight Parts - <b>Takeshi SEMBA</b> , Kyoto Municipal Institute of Industrial Technology and Culture	<b>Open</b>	Mineral/ Microfibrillated Cellulose Composite Materials: Recycled Fibres, Engineered Minerals and New Product Forms - <b>David Skuse</b> , FiberLean Technologies Limited
<b>8:54</b>	Road to the Automotive Parts Using CNFs Materials – <b>Hiroyuki Yano</b> , RISH, Kyoto University	Robust Shape Memory Nanocellulose-Based Aerogels Decorated with Silver Nanoparticles for Dye Discoloration – <b>Weihua Zhang</b> , ÅBO Akademi University	New High Solid Content CNFs Production by Twin Screw Extrusion Optimization - <b>Julien Bras</b> , Grenoble INP
<b>9:16</b>	Unprecedented Ultrahigh Expansion Injection-Molded Polypropylene Foams with Hydrophobic-Modified CNFs – <b>Masahiro Ohshima</b> , Kyoto University	Cost-Effective and Functional Emulsions Stabilized with Renewable Particles – <b>Orlando Rojas</b> , Aalto University	Combination of Mechanical Treatments to Optimize CNF Production and Understand the Role of Cumulated Strain on Nanofibrillation for Industrial Production - <b>Gabriel Banvillet</b> , Arjowiggins Creative Papers
<b>9:38</b>	Development of Lightweight Foamed Plastics with High Mechanical Properties by Using Hydrophobic Modified CNF and Controlling Cell Morphologies – <b>Akihiro Ito</b> , Kyoto Municipal Institute of Industrial Technology and Culture	New Applications of Cross-Linked CNC Aerogels – Energy Production/Storage Devices, Sorbents, Drug Delivery and Bone Implants – <b>Emily Cranston</b> , University of British Columbia	Steam Pretreatment Enhancing Productivity of CNFs from Oil Palm Biomass - <b>Hidayah Ariffin</b> , Universiti Putra Malaysia
<b>10:00 - 10:30</b>	<b>Break</b> <i>Convention Hall B</i>		
<b>10:00 – 16:00</b>	<b>Nanocellulose Exhibition in TAPPI Nano</b> <i>Convention Hall B</i>		

<b>10:30 - 12:00</b>	<b>Session 5: New Emerging Applications</b>	<b>Session 6: Plant Based Polymer Composites</b>	<b>Session 7: Flexible Bio-Electronics</b>
<b>10:32</b>	Cellulose Biohybrid Foams – Processing, Properties and Applications - <b>Gustav Nyström, EMPA</b>	High-Performanced Bioplastic Blends as Matrix for Renewable Nanomaterials - <b>Kunyu Zhang, Tianjin University</b>	Substrates Based on CNFs for Printed Electronics and Optics – <b>Katariina Torvinen, VTT Technical Research Centre of Finland Ltd.</b>
<b>10:54</b>	The Role of Chemistry in High Performance Cement via CNC Addition - <b>Jeffrey Youngblood, Purdue University</b>	Preparation and Pore Regulation of Carboxyethylated Micro-/Nano-Cellulose Films - <b>JingHuan Chen, China National Pulp and Paper Research Institute Co., Ltd.</b>	Nanocellulose-Based Materials for the Solar Cell, Wearable Sensors and Supercapacitors - <b>Feng Xu, Beijing Forestry University</b>
<b>11:16</b>	CNCs for Foam Stability in Cellular Concrete - <b>Vivek Bindiganavile, University of Alberta</b>	Stimuli-Responsive Nanocomposites Derived from Plant Oil and CNCs - <b>Zhongkai Wang, Anhui Agricultural University</b>	Highly Transparent Cellulose Films for Electronic Applications – <b>Zhiqiang Fang, South China University of Technology</b>
<b>11:38</b>	Edible Bio-Based Oleofilms from Nanocellulose-Stabilized Pickering Emulsions for Active Edible Barriers - <b>Luis Alexandro Valencia Lopez, Stockholm University</b>	Robust and Non-Hazardous Porous Constructs Enabled by Compositing Nanoparticles with Nanocelluloses - <b>Bruno Mattos, Aalto University</b>	Cellulose Based Functional Materials in Electrical and Electrochemical Flexible Devices – <b>Luis Pereira, CENIMAT/13N</b>
<b>12:00 – 13:30</b>	<b>Lunch on Your Own</b>		
<b>13:30 – 16:30</b>	<b>Workshops</b> <b>Cellulose Nanomaterial Safety: Building a Bridge from Theory to Practice Workshop</b> <i>Room 202</i> <b>CNM Characterization Workshop: Primary Characterization Workshop</b> <i>Room 203</i>		
<b>17:00- 18:30</b>	<b>Session 8: Poster Session and Student Poster Competition</b> <i>Convention Hall B</i>		

<b>Wednesday 5 June 2019</b>			
<b>7:30 – 8:30</b>	<b>NANO Research Committee Meeting (Invitation Only)</b> <i>Room 203</i>		
<b>8:30 - 10:00</b>	<b>Session 9: Emulsions, Gels and Foams II</b>	<b>Session 10: Measurement of Surface Interactions</b>	<b>Session 11: Production of Rod-Shaped CNMs</b>
<b>8:32</b>	Rheological Characterization of Medium and High Internal Phase Oil-in-Water Pickering Emulsions Stabilized with CNCs – <b>Chuanwei Miao</b> , <i>FPIInnovations</i>	Hydrophobization of TEMPO Oxidized CNF – <b>Shinichi Onogi</b> , <i>Nippon Paper Industries, Co., Ltd.</i>	Developments in CNC Commercialization - Al-Pac's Experience – <b>Geoff Clarke</b> , <i>Alberta-Pacific Forest Industries Inc.</i>
<b>8:54</b>	Dual Functions of CNF in Oil-in-Water Emulsion: Pickering Emulsifier and a Unique Dispersion Stabilizer – <b>Yohsuke Goi</b> , <i>DKS Co. Ltd.</i>	Atomic Force Microscopy as a Tool to Probe Nanocellulose Surface: Possibilities and Challenges – <b>Aji Mathew</b> , <i>Stockholm University</i>	Continuous Compressed Cellulose CNC Reactor Demonstration at Low Acid Ratios – <b>James Lockhart</b> , <i>NORAM Engineering and BC Research</i>
<b>9:16</b>	Nanocellulose-Templated Biocompatible and Self-Healing Hydrogel Conductors - <b>Jingquan Han</b> , <i>Nanjing Forestry University</i>	Dynamic Analysis of Poly ( $\epsilon$ -Caprolactone) in Cellulose/Poly ( $\epsilon$ -Caprolactone) Composites with Solid-State NMR – <b>Min Xu</b> , <i>East China Normal University</i>	CNC Production and Applications Development – <b>Shaul Lapidot</b> , <i>Melodea, Ltd.</i>
<b>9:38</b>	Enhancement of Adsorption Capacities Using CNM Reinforced Hydrogel – <b>Yiyang Yue</b> , <i>Nanjing Forestry University</i>	Rheological Properties of Dilute Nanocellulose Dispersions – <b>Reina Tanaka</b> , <i>Forestry and Forest Products Research Institute</i>	Production of Various Hydrolyzed Cellulosic Materials in a Gas/Solid Reactor Utilizing Pressurized HCl – <b>Timo Pääkkönen</b> , <i>Aalto University</i>
<b>10:00 - 10:30</b>	<b>Break</b> <i>Convention Hall B</i>		
<b>10:00 – 15:30</b>	<b>Nanocellulose Exhibition in TAPPI Nano</b> <i>Convention Hall B</i>		

<b>10:30 - 12:00</b>	<b>Session 12: Self-Standing CNM Films/Nanopapers and Process Optimization</b>	<b>Session 13: CNM Morphology</b>	<b>Session 14: CNM Modification for Polymer Processing</b>
<b>10:32</b>	Manufacture of Transparent Paper Using Surface Nanofibrillated Cellulose Fibers – <b>Wenxia Liu, Qilu University of Technology</b>	Nanostructural Properties and Twist Periodicity of CNFs with Variable Charge Density – <b>Mario Arcari, ETH Zurich Department of Health Sciences and Technology</b>	Nano Cellulose Composite with Various type of Thermoplastic Resins and Their Enhanced Mechanical Strength and Thermal Properties – <b>Ryohei Mori, Green Science Alliance Co.,Ltd.</b>
<b>10:54</b>	Designing Flexible, Smooth, Highly Transparent and Hazy CNF Films – <b>Christian Aulin, RISE</b>	A Simple Framework for the Complete Morphological Characterization of CNFs to Enable Accurate Prediction of their Assembly Behavior - <b>Blaise Tardy, Aalto University</b>	Modification of Cellulose Nanocrystals and Their Reinforcement for PLA Composite – <b>Xue Jiang, Jiangnan University</b>
<b>11:16</b>	Refined and Homogenized Nanocellulose: Fiber Quality, Energy and Strength – <b>Shaun Ang, Monash University</b>	Wet-TEM Investigation of Surface-Sulfated CNFs Dispersed in Water Gels - <b>Masaaki Hira, KRI, Inc.</b>	Interfacial Control of TEMPO-Oxidized CNF Toward Composites – <b>Shunsuke Fukui, Kao Corporation</b>
<b>11:38</b>	Optimising Sheet and Fibre Properties to Reduce Energy Consumption of Nanocellulose Production – <b>Warren Batchelor, Monash University</b>	Particle Size Distributions for CNCs: An Interlaboratory Comparison – <b>Linda Johnston, Metrology, National Research Council Canada / Government of Canada</b>	Tailoring Interfacial Layer Structures for Nanocellulose/Polymer Composites – <b>Hiroto Soeta, University of Tokyo</b>
<b>12:00 - 13:30</b>	<b>Lunch Provided</b> Convention Hall B <b>Producers Committee Meeting (invitation only)</b> Room 203		
<b>13:30- 15:00</b>	<b>Session 15: Coatings, Films and Other CNM Applications</b>	<b>Session 16: CNM From Structured Materials/CNM Characterization for Safer by Design</b>	<b>Session 17: Fundamental Mechanisms</b>
<b>13:32</b>	Application of Hydrophobically Modified CNF/Resin Masterbatch "STARCEL®" to Foamed Materials – <b>Syuichi Ohira, SEIKO PMC Corporation</b>	Analysis of the Properties of Anisotropic Foams as a Tool for Characterizing the Fibrillation Degree of CNFs – <b>Nathalie Lavoine, North Carolina State University</b>	Impact of Nanocellulose on the Rheology and Microstructure of Pectin Hydrogels – <b>Patricia Lopez-Sanchez, RISE, Research Institutes of Sweden</b>
<b>13:54</b>	Cellulose filaments (CF) for Light-Weight Composites and High Performance Concretes – <b>Balázs Tolnai, Kruger Inc.</b>	R2R Spray Deposition of CNF Thin Films Studied Real-Time Using Surface Sensitive Scattering Methods – <b>Calvin Brett, KTH Royal Institute of Technology &amp; DESY Deutsches Elektronen-Synchrotron</b>	Metal Coordination Reinforced Polyacrylamide-Based Physical Hydrogels Compositated With Carboxylated Cellulose Derivatives – <b>Jianquan Wang, Beijing Institute of Technology</b>

<b>14:16</b>	Optimizing Various Aspects of Nanocellulose Film Forming on Steel Substrate for Drying Studies – <b>Vinay Kumar</b> , <i>VTT Technical Research Centre of Finland Ltd.</i>	Implementation of Safe-by-Design Thinking into Manufacturing and Use of Products Containing Nanomaterials - <b>Heli Kangas</b> , <i>VTT Technical Research Centre of Finland Ltd.</i>	Chitosan Nanofiber-Catalyzed Selective Knoevenagel Condensation Under Green Conditions – <b>Yusaku Hirayama</b> , <i>Kyushu University</i>
<b>14:38</b>	Structure and Functionalities of CNF Nonwoven Sheet – <b>Keisuke Jono</b> , <i>Asahi Kasei Corporation</i>	Update on the Environmental Health and Safety of CNMs – <b>James Ede</b> , <i>Vireo Advisors, LLC</i>	Nanocellulose Aerogels for CO <sub>2</sub> Capturing and Conducting Strain Sensors - <b>You-Lo Hsieh</b> , <i>University of California-Davis</i>
<b>15:00-15:30</b>	<b>Break</b> <i>Convention Hall B</i>		
<b>15:30 - 17:00</b>	<b>Session 18: End User Panel</b>	<b>Session 19: Methods in Safety Evaluation of CNM</b>	<b>Session 20: Photonics</b>
<b>15:32</b>	Panelist to be named	Development of Safety Assessment Methods for CNF – <b>Hiedo Kajihara</b> , <i>National Institute of Advanced Industrial Science and Technology</i>	Photonic CNC Films for Optoelectronic Devices – <b>Paul Grey</b> , <i>CENIMAT i3N</i>
<b>15:54</b>		Assessing Bioavailability and Bioperformance of Ingested Cellulose Nanomaterials Using a Novel Physiologically-Relevant Ex Vivo and in Vitro Integrated Methodology – <b>Christie Sayes</b> , <i>Baylor University</i>	Fabrication and Regulation of Colorimetric Humidity-Sensitive CNC Films – <b>Guomin Zhao</b> , <i>Nanjing Forestry University</i>
<b>16:16</b>		An Alternative Testing Strategy for Demonstrating the Safety of CNMs – <b>Jo Anne Shatkin</b> , <i>Vireo Advisors, LLC</i>	Chioptical and Plasmonic Films via Electrochemical Deposition – <b>Wadood Hamad</b> , <i>FPIInnovations</i>
<b>16:38</b>		In Vivo Testing Approach to Demonstrate the Safety of CNMs in Food– <b>Kimberly Ong</b> , <i>Vireo Advisors, LLC</i>	Control of the Colloidal Deposition of CNC Films – <b>Wim Thielemans</b> , <i>KU Leuven</i>
<b>18:30-20:30</b>		<b>Conference Dinner</b> (additional registration fee required) <i>Hotel The Manhattan</i>	

**Thursday  
6 June 2019**

<b>8:30 – 10:00</b>	<b>Session 21: Use of CNMs for Paper and Paperboard Packaging Application</b>	<b>Session 22: New and Emerging Applications</b>	<b>Session 23: Printing CNMs for Biomedical Applications</b>	<b>Session 24: Non-Traditional Methods for Nano-Lignocellulose Extration</b>
<b>8:32</b>	Wet Lamination of MFC on Board – <b>David Guerin</b> , Centre Technique du Papier	Overview and Progress of Nano Cellulose Vehicle (NCV) Project – <b>Naoki Obi</b> , Kyoto University	Bagasse Fibres and Nanocelluloses for Biocomposite Inks and 3D Printing – <b>Gary Chinga Carrasco</b> , RISE PFI	Isolation of Nanocellulose From Biomass via Nontraditional Routes – <b>Feng Jiang</b> , The University of British Columbia
<b>8:54</b>	Benefits of Microfibrillated Cellulose in Paperboard - <b>Jonathan Phipps</b> , FiberLean Technologies	Ionic Polymer Metal Composites for Sensing and Actuation Produced with Cellulose Nanofibrils – <b>Mehdi Tajvidi</b> , University of Maine	Fabrication of Nanocellulose/PEGDA Hydrogel and Aerogel by Stereolithography – <b>Dong Sun</b> , South China University of Technology	Green Preparation of Cellulose Nanocrystals Using Lignin-Based Solid Acid Catalyst – <b>Shiyun Zhu</b> , South China University of Technology
<b>9:16</b>	Nanocellulose: Packaging Applications and Commercial Development – <b>Jack Miller</b> , Biobased Markets	Cellulose Based Double Networked Shape Memory Polymer – <b>Chenyang Cai</b> , Nanjing Forestry University	3D Printing of Nanocellulose Scaffold as Culture Platform and Tissue Mimics – <b>Xiaoju Wang</b> , Åbo Akademi University	Preparation of Carboxymethyl Nanocellulose Fibers with Tree-like Structure Using a Recyclable Etherification – <b>Ziqiang Shao</b> , Beijing Institute of Technology
<b>9:38</b>	Preparation of Packaging Paper with High Barrier Properties Through CNF Coating - <b>Hye Jung Youn</b> , Seoul National University	Mechanically Adaptive Nanocomposites with CNCs – <b>Chunxiang Ding</b> , College of Materials Science and Engineering, Nanjing Forestry University	Biomimetic Inks Based on Hemicellulose and Nanocellulose for 3D Printing – <b>Wenyang Xu</b> , Åbo Akademi University	Continuous Production of Cellulose Nanocrystals in a Microfluidic Reactor Systems: An Industrial Viable Approach – <b>Prodyut Dhar</b> , Kyoto University
<b>10:00 - 10:30</b>	<b>Break</b> Convention Hall B			



10:30 - 12:00	<b>Session 25: Lignin and Hemicelluloses Nanoparticles and Applications</b>	<b>Session 26: Production and Characterization of Modified CNFs</b>	<b>Session 27: CNM for Biomedical Applications</b>	<b>Session 28: Towards Non-Traditional Markets</b>
10:32	Developing Nanomaterials from Xylan: Single Crystal Nanotiles – <b>Scott Renneckar</b> , University of British Columbia	Preparation and Characterization of the Surface-Sulfated CNF – <b>Lianzhen Lin</b> , KRI, Inc.	Open	Priorities for Development of Standards to Support the Commercialization of Cellulose Nanomaterials – <b>Stephanie Beck</b> , FPInnovations
10:54	Lignin Nanoparticles as a High-Value Material Platform for Functional Nanocomposites – <b>Dong Tian</b> , Sichuan Agricultural University	Modified Fenton Oxidation of Cellulose Fibres for CNF Preparation – <b>Qun Li</b> , Tianjin University of Science and Technology	Fibroblast Cell Culture on Extracellular Matrix-Mimetic Scaffolds Composed of Surface-Carboxylated Nanocellulose - <b>Mayumi Hatakeyama</b> , Kyushu University	Labeled Cellulose Nanofibrils for EHS Studies – <b>Douglas Fox</b> , American University
11:16	Open	Relationships Between the Structures and Properties of Acid-Free TEMPO-Oxidized Cellulose Nanocrystals (TEMPO-CNCs) – <b>Yaxin Zhou</b> , University of Tokyo	Open	Factors Affecting CNC Organogel Formation and Their Effects on Pharmaceutical Crystallization – <b>Manali Banerjee</b> , Georgia Institute of Technology
11:38	Open	Characterization of Phosphorylated CNF Dispersion and its Applications – <b>Yuichi Noguchi</b> , Oji Holdings Corporation	CNF Based Gels for Tissue Engineering – <b>Kristin Syverud</b> , RISE PFI	Hybrid Materials of Nanocellulose and Graphene – <b>Tiffany Abitbol</b> , RISE, Research Institutes of Sweden
12:00-13:30	<b>Session 29: Keynote Presentation and Lunch</b> <b>Sponsored by: Aalto University &amp; VTT Technical Research Centre of Finland Ltd.</b> Convention Hall A&B			
13:30 - 15:00	<b>Session 30: Commodity &amp; Engineering Plastic Composites</b>	<b>Session 31: Energy Storage</b>	<b>Session 32: End Functionalized CNMs and New Self-Assembled Architectures</b>	<b>Session 33: New Pathways for Nanocellulose Composites</b>
13:32	Creating Filled Nanocomposites from Industrially Relevant Polymers – <b>Johan Foster</b> , Virginia Tech	Processability of Nanographite-Nanocellulose Based Electrodes for Flexible Energy Storage Applications	Symmetrically and Asymmetrically Functionalized CNCs – <b>Gwendoline Delepierre</b> ,	Highly Thermally Stable Transparent Nanocomposites of Immiscible Polymer and Nanocelluloses



		– <b>Rajesh Koppolu</b> , Åbo Akademi University	Adolphe Merkle Institute - University of Fribourg	Fabricated via a Pickering Emulsification Pathway – <b>Subir Kumar Biswas</b> , Kyoto University
<b>13:54</b>	Synthesis of Nylon 66 Composites Containing Natural Organic Nanomaterials – <b>Lam Tan Hao</b> , Korea Research Institute of Chemical Technology (KRICT)	CNFs: A New 1D Element for Flexible Paper Power Sources - <b>Sand-Young Lee</b> , UNIST	Unconventional CNC Derivatives – <b>Johanna Majoinen</b> , Aalto University	Developing High Performance PA11/Cellulose Nanocomposites for Industrial-Scale Melt Processing – <b>Priya Venkatraman</b> , Virginia Tech
<b>14:16</b>	Electrospinning and Fiber Stretching of Polymer-Grafted CNC Polystyrene Nanocomposites: Structures and Dynamic Mechanical Properties – <b>Yaman Boluk</b> , University of Alberta	Improving and Regulating Pore Structure of TEMPO-Oxidized Cellulose Micro-Nano-Fibers Membranes for Lithium-Ion Batteries Separator – <b>Weigui Xie</b> , South China University of Technology	New Assemblies Based on Asymmetrically-Functionalized CNCs – <b>Bruno Jean</b> , CERMAV-CNRS	Zero-VOC Waterborne Acrylic Coatings: Improving Properties with Cellulose Nanocrystals – <b>Ezgi Dogan-Guner</b> , Georgia Institute of Technology
<b>14:38</b>	Process Design Due to Nano-Fusion for Reinforced Nanocomposites by Embedding Nanocellulose Honeycomb Frames – <b>Tetsuo Kondo</b> , Kyushu University	Highly Porous Willow-Derived Activated Carbon for High Performance Supercapacitor Electrodes – <b>Josphat Phiri</b> , Aalto University	Arrangement of CNCs into 2D Cellular Networks with Tunable Dimensions – <b>Eero Kontturi</b> , Aalto University	Emulsion-Templated Synthesis of Nanocellulose-Shelled Microparticles – <b>Shuji Fujisawa</b> , The University of Tokyo
<b>15:00-15:30</b>	<b>Break</b> Convention Hall B			
<b>15:30 – 17:00</b>	<b>Session 34: Additive Manufacturing</b>	<b>Session 35: CNM Composites and Surface Modification</b>	<b>Session 36: Advances and Insights into CNC Self-Assembly Upon Drying</b>	<b>Session 37: Papers and Beyond</b>
<b>15:32</b>	Effect of Viscoelastic Properties on 3D Printability of CNF Hydrogels – <b>Jinho Hyun</b> , Seoul National University	Thiol-Ene Modifications to Alter CNF Film Properties – <b>Kendra Fein</b> , University of Maine	Recent Advances in Vacuum Assisted Self-Assembly of CNCs - <b>Jianming Zhang</b> , Qingdao University of Science and Technology	Properties of Fluorescent Paper via Surface Coating of Cellulose Derivatives / Rare Earth Metal Ions Composites – <b>Jun Ye</b> , South China University of Technology
<b>15:54</b>	Assessment of Mechanical Properties and Fiber Alignment of Additively Manufactured CNF Materials – <b>Kevin</b>	Controlling Formation and Properties of Cellulose Nano-Paper Using Polyvinylpyrrolidone/	Nanoparticle Alignment in Drying CNC Droplets – <b>Michael Bortner</b> , Virginia Tech	Cellulose Nanofibril (CNF) Based Gel Polymer as a Solid State Electrolyte for Lithium Ion Battery

	<i>Turner, University of Pennsylvania</i>	Laponite Nanoparticle System – <b>Guodong Li</b> , Qilu University of Technology		(LIB) – <b>Hao Zhang</b> , Tianjin University of Science and Technology
<b>16:16</b>	Monocomponent Nanocellulose for Biobased 3D Printing - <b>Rubina Ajdary</b> , Aalto University	Fatty Acid Assisted Surface Modification of CNFs for Developing Packaging Film for Food Products – <b>Balunkeswar Nayak</b> , University of Maine	Controlling the Deposition Pattern of CNCs in Drying Droplets Using Internal Flow Fields – <b>Wim Thieleman</b> , KU Leuven	Inverse Thermoreversible Methylcellulose/Cellulose Nanocrystal Nanocomposite Hydrogel for Fiber Spinning – <b>Ville Hynninen</b> , Aalto University
<b>16:38</b>	Stretchable and Conductive Nanocellulose Composites – <b>Gilberto Siqueira</b> , Empa	TEMPO-CNF Epoxy Hybrids for Nanopapers with Improved Wet Strength - <b>Florian Mayer</b> , University of Vienna	Self-Assembly of CNCs Around Complex Contours – <b>Konrad Klockars</b> , Aalto University	Nano-Cellulose Enhanced Dialdehyde Carboxymethylcellulose Dual Responsive Self-Repairing Hydrogel – <b>Shiyu Fu</b> , South China University of Technology
<b>Friday 7 June 2019</b>				
<b>8:00 – 19:00</b>	<b>Traditional Japanese Paper Mill, Honda Plant, and Hodosan Shrine Tours</b>			