22-25 June 2015 - Atlanta, Georgia, USA

Monday,	22 June 2015		
9:30 - 2:30	Tour of API's Thomaston Biorefinery & New Nano Demonstration Line- pre-registration required (limited to 100 persons)		
6:00 - 7:00	Welcome Reception Sponsored by FPInnovations		
7:00 - 8:00	Young Professionals Networking Mixer, Sponsored by the	TAPPI Young Professionals Division. (Open to All Attendees	
Tuesday,	23 June 2015		
8:00 - 9:00	Welcome and Opening Keynote Presentation		
	Composites I: Thermoset and PLA-based Composites	Lab & Pilot Scale I	Characterization: Thermal, Mechanical and Surface Properties of Cellulosic Nanomaterials
	Session Chair: Gilberto Siqueira, EMPA	Session Chair: Leslie McLain, IMERYS	Session Chair: Emily Cranston, McMaster University
	"Design and Characterization of Cellulose Nanocrystals Enhanced Epoxy Hardeners" - Shane Peng , <i>Purdue University</i>	"Development of nanofibrillated cellulose/nanographite composites for paper applications" - Sinke Henshaw Osong , Mid Sweden University	"Comparative Kinetic Study of the Thermal Decomposition of Nanocellulose Produced by H2SO4 Hydrolysis, TEMPO, and AVA Processes" - Jamila Marshall, Clark Atlanta University
9:00 - 10:30	"Use of Order of Addition to Improve CNC Dispersion and Emulsion Stability in Waterborne Epoxy Formulations" - Carson Meredith, Georgia Institute of Technology	"Research, Development, Scale-Up, Production and Selected Applications of FiberLean [™] Microfibrillated Cellulose/ Mineral Composite for Paper and Board Applications" - David R. Skuse , <i>Imerys</i>	"Characterization of Cellulose Nanomaterials and Cellulosic Biomass with the Atomic Force Microscope" - Ryan Wagner , NIST
	"Investigating the Interphase in PLA/CNC Composites" - John Simonsen, Oregon State University	"Effect of Carboxy-Methyl-Cellulose (CMC) as a Dispersing Agent for Micro-Nano Fibrillated Cellulose (MNFC) on Z-Structured TMP Paper and MNFC Films Properties" - Mohamed Ali Charfeddine , <i>Lignocellulosic Materials Research Centre/UQTR</i>	"Effects of Electron Beam Treatment on Nano-Crystalline Cellulose Properties" - Yung B. Seo , Chungnam National University
	"Process-Structure-Property Relationship of Cellulose Nanocrystal / Polylactic Acid Nanocomposite Films" - Erin M. Sullivan , Georgia Institute of Technology	"Optimizing the Microstructure of MFC Composite Paper for Improved Dewatering and Sheet Properties" - Juuso Johannes Rantanen, Aalto University	"2D NMR Identification of Sulfate Group on Cellulose Nanocrystals" - Teng Xu, Auburn University
10:30 - 11:00	Break		T
	Composites II: Processing of Composites Session Chair: Alain Dufresne, Grenoble Institute of Technology	Lab & Pilot Scale II Session Chair: Behzad Ahvazi, AITF	
	"Manufacturing of Cellulose and Chitin Nanocomposite Fibres Using Ionic Liquids and Environmentally Benign Solvents" - Sameer S. Rahatekar, University of Bristol	"Preparation of Dried Cellulose Nanofiber Materials Which Are Easily Re-Dispersed in Water" - Hiroaki Namba , <i>Nippon Paper</i> <i>Industries Co. Ltd</i> .	
11:00 - 12:30	"Drying Techniques for Improved Redispersion of Cellulose Nanocrystals in Transparent Media" - Jim Snyder , U.S. Army Research Laboratory	"Experience From First Commercial Cellulose Nanofibril Production Plant" - Michael A. Bilodeau , University of Maine	

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	Field	minary Technical Program (subject to change)	
	"MFC-Based Composite Films for Gas Barrier Applications" - Caglar Mericer, University of Bologna	"Strategic Development for Optimization of Cellulose Nanocrystals (CNC) Production" - Christophe Danumah, PhD , <i>Alberta Innovates - Technology Futures</i>	
	"Melt processing of cellulose nanocrystal reinforced polycarbonate from a master-batch process" - Marcos Mariano, Grenoble Institute of Technology	Production, Application Development and Commercialization of Cellulose Filament (CF)" - Balazs Tolna i, <i>Kruger Inc.</i>	
12:30 -2:00	Lunch & Presentation by Norman Marsolan Georgia Tech Nanoce	ellulosic Research: Innovating Renewable Bioproducts	
	Composites III: Thermoplastic-based Composites	Lab & Pilot Scale III: Production and Application of Nanocelluloses	Technology Showcase
	Session Chair: John Simonsen, Oregon State University	Session Chair: Rajesh Sunasee, State University of New York at Plattsburgh	
	"Thermoplastic Nanocomposite Films Using Micro- and Nano- Sized Cellulose Reinforcing Agents from Wood Fibers and Recycled Cotton Fabric" - Richard A. Venditti, Jr ., <i>North Carolina</i> <i>State University</i>	"Nanocellulose: Technology, Applications and Markets" - Jack Miller, Market-Intell LLC	Masuko, Hideki Soga USFS, Theodore Wegner
2:00 - 3:30	"Bio-Reinforced Composites for Additive Manufacturing: Nanocellulose-Termoplastic Composites" - Halil Levent Tekinalp, Oak Ridge National Laboratory	"Laboratory and Pilot-Scale Production of Cellulose Nanocrystals at Alberta Innovates - Technology Futures" - Frank J. Tosto , <i>Alberta Innovates Technology</i>	CNNT , Sean Yoon Sentinel Bioactive Paper Network / FPInnovations, Huining Xiao
	"Lignin: A Friend of a Foes in Nanocellulosics?" - Orlando J. Rojas , Aalto University	"Analyzing the Future Applications of Nanocelluloses" - Jesse Kautto, Poyry Management Consulting Oy	Pacific Nano Products, Charles P. Klass, Director; and Vijay Mathur
		"Overcoming Challenges on the Development of Naocellulose- based Products" - Pia Qvintus , <i>VTT</i>	American Process, Jack Miller
3:30 - 4:00	Break		
	Composites IV: Design of Specific Composites Session Chair: Wadood Hamad, FPInnovations	Lab & Pilot Scale IV: Benefits of Cellulose Nanofibrils Session Chair: Rajesh Sunasee, State University of New York at Plattsburgh	
	"High Performance Cement via Cellulose Nanocrystal Addition" - Jeffrey P. Youngblood, Purdue University	"Nanocellulose Meeting the Oil/Water Interface: Emulsion and Applications" - Orlando J. Rojas , <i>Aalto University</i>	
4:00 - 5:30	"Carbon Fibers from Polyacrylonitrile (PAN)/Cellulose Nanocrystals (CNCs)" - Huibin Chang , Georgia Institute of Technology	"The Addition of CNF to Papermaking Furnish – Part 2" - Donna A. Johnson, University of Maine	
	"CNT Incorporated Lignin/PAN Composite Carbon Fibers" - H. Clive Liu, Georgia Institute of Technology	"Cellulose Nanofibril Bound Laminated Paper Nanocomposites (Cellubound)" - Mehdi Tajvidi , University of Maine	
	"Developing Design Model for Cellulose Nano Crystal Composites" - Meisam Shir Mohammadi , Oregon State University	"The Benefit of Cellulose Nanofibrils on Foam Formed Paper Properties" - Katariina Torvinen , VTT Technical Research Centre of Finland	

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6:30 - 10:00 Conference Dinner at the Georgia Aquarium - Registration Required. Additional \$75

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Wednesd	ay, 24 June 2015		
	Electronics I: Cellulose Nanomaterial Substrates for Electronics	Metrology I: Novel Measurement Methods for Nanocellulose	Renewables I
9:00 - 10:30	Session Chair: Liangbing Hu, University of Maryland	Session Chair: Jeff Gilman, NIST	Session Chair: Gilberto Siqueira, EMPA
	"Nanocellulose for Printed Electronics and Energy" - Bernard Kippelen, Georgia Institute of Technology	"Preparation and Characterization of Silica Nanoparticle-Cellulose Nanofibre Composites" - Warren J. Batchelor, Monash University	"Plastics with the Highest Native Lignin Contents are Nano- Biomaterials Composed of 13 nm Macromolecular Complexes" - Simo Sarkanen, University of Minnesota
	"Stable Top-Gate Organic Field-Effect Transistors on Cellulose Nanocrystal Substrates" - Cheng-Yin Wang, <i>Georgia Institute of</i> <i>Technology</i>	"Mechanical Properties Characterization of Cellulosic Nanocrystal Films" - Chelsea Davis , <i>NIST</i>	"Fabrication of 'Cellulose Nano-Anemone'" - Tetsuo Kondo , Kyushu University
	"Tuning Mechanical and Electrical Properties of Paper for Disposable Devices" - Aaron Mazzeo, Rutgers University	"3D Infrared Chemical Images for Characterizing Cellulose Nanomaterials" - Barbara Illman , U.S. Forest Service Forest Products Lab	"Preparation of Cellulose Nanocrystal/Silver Nanoparticle Composite Materials for Surface Enhanced Raman Spectroscopy Applications" - Rongbing Du , National Institute for Nanotechnology
	"Development of Transparent Cellulose Nano Fiber Film for Flexible Displays" - Takayuki Shimaoka , <i>Oji Holdings Corporation</i>	"On the Aggregated State of Pulp Cellulose Nanocrystals: Are CNCs Crystalline or Simply Consolidated Particles?" - Umesh P. Agarwal, USDA Forest Products Laboratory	"Influence of charge density and ionic strength on the aggregation process of cellulose nanocrystals" - Isabelle Capron, INRA-Nantes
10:30 - 11:00	Break		
		Metrology II: Progress in Standards and Policy Development for	
	Electronics II: Cellulose Nanomaterials for Device Structure	Nanocellulose	
	Electronics II: Cellulose Nanomaterials for Device Structure Session Chair: Junyong Zhu, US Forest Products Laboratory		
		Nanocellulose	
11:00 - 12:30	Session Chair: Junyong Zhu, US Forest Products Laboratory "Multifunctional Paper and Fibers Based on Nanocellulose	Nanocellulose Session Chair: Chelsea Davis, <i>NIST</i> "Cellulose Nanomaterials: Measurement Needs Workshop	
11:00 - 12:30	Session Chair: Junyong Zhu, US Forest Products Laboratory "Multifunctional Paper and Fibers Based on Nanocellulose Materials" - Hongli Zhu, University of Maryland "Cellulose Nanofiber Materials for Electronic Devices" - Nogi	Nanocellulose Session Chair: Chelsea Davis, <i>NIST</i> "Cellulose Nanomaterials: Measurement Needs Workshop Report" - Jeffrey W. Gilman, <i>NIST</i> "Biodegradability, Compostability and Safety of Cellulose Nanofibrils (CNF) and CNF Based Products" - Heli J. Kangas, <i>VTT</i>	
11:00 - 12:30	Session Chair: Junyong Zhu, US Forest Products Laboratory "Multifunctional Paper and Fibers Based on Nanocellulose Materials" - Hongli Zhu, University of Maryland "Cellulose Nanofiber Materials for Electronic Devices" - Nogi Masaya, Osaka University "Flexible Magnetostrictive Cellulose Nanofibril Membranes" -	Nanocellulose Session Chair: Chelsea Davis, <i>NIST</i> "Cellulose Nanomaterials: Measurement Needs Workshop Report" - Jeffrey W. Gilman, <i>NIST</i> "Biodegradability, Compostability and Safety of Cellulose Nanofibrils (CNF) and CNF Based Products" - Heli J. Kangas, <i>VTT</i> <i>Technical Research Centre of Finland</i> "Readying Cellulose Nanomaterials for Commercialization: Analysis of Information Needs for Globally Harmonized Standard	

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	Electronics III: Cellulose Nanomaterials for Energy	Grafting I	Renewables II
	Session Chair: Hongli Zhu, University of Maryland	Session Chair: Yaman Boluk, University of Alberta	Session Chair: Shaul Lapidot, Melodea Ltd.
	"Biomass-Derived Carbon for Energy Storage" - Xiulei (David) Ji , Oregon State University	"Low Cost Hydrophobic Surface Functionalization of Cellulose Nanomaterials with Lignin for Polymer Composite Reinforcement" - Kim Nelson , American Process Inc.	"Control of Indium Tin Oxide Nanoparticle Morphology using Scraficial Templating Method" - Yuan Lu , Oak Ridge National Laboratory
2:00 - 3:30	"Cellulose Nanofibrils: Opening Up One-Dimensional Opportunity for Flexible/High-Performance Lithium-Ion Paper Batteries" - Sang Young Lee , UNIST (Ulsan National Institute of Science and Technology)	"Incorporation of Forest Derived Cellulose Nanomaterials into Polylactic Acid" - Lionel Cross , <i>Clark Atlanta University</i>	"Cellulose Nanofibers Isolated from Thermomechanical Pulp with Low Energy Consumption" - Gilberto Siqueira, EMPA
	"Cross-linked Aerogels from Cellulose Nanocrystals as Universal Scaffolds for Supercapacitor Devices" - Emily Cranston , McMaster University	"Voltammetric Optimisation of TEMPO-Mediated Oxidation of Cellulose" - Yun Jin , University of Bath	"What Conformational Isomerism and Auxetics Typify Crystalline Cellulose?" - Akwasi Asamoah, University of Exeter
	"Energy Storage Devices Based on High Consistency Cellulose" - Otto-Ville Kaukoniemi , VTT Technical Research Centre Of Finland	"Improved Mechanical Properties of Polylactide Nanocomposites- Reinforced with Cellulose Nanofibrils Through Interfacial Engineering via Amine-Functionalization" - Yuan Lu , Oak Ridge National Laboratory	"Bridging atomic structure and nanoscale architecture of cellulose nanofibrils in plant cell walls by Transmission Electron Tomography and Molecular Modeling" - Peter Ciesielski , National Renewable Energy Lab
3:30 - 4:00	Break		
	Electronics IV: Other Possibilities of Cellulose Nanomaterials in Electronics & Energy Devices	Grafting II	
	Session Chair: Robert Moon, USDA Forest Service, GA Tech	Session Chair: Usha Devi Hemraz, National Research Council of Canada	
	"Wood Cellulose Materials Toward Photonics, Electronics and Energy" - Liangbing Hu, University of Maryland College Park	Grafting Polyolefins Onto Cellulose Nanocrystals and Preparation of Reinforced Polyethylene Nanocomposites" - Yaman Boluk, University of Alberta	
4:00 - 5:30	"Cellulose Nanocrystals-Based Electrolyte for Alkaline Fuel Cells with Superior Dimensional Stability" - Yuan Lu , Oak Ridge National Laboratory	CNCs-PEHMA Nanomaterials for Applications in Thermoplastics" - Wadood Y. Hamad, FPInnovations	
	"Cellulose Nanocrystal Hydrogel Particles and Capsules from Single and Double Emulsion Drops" - Carlos Martinez , <i>Purdue</i> <i>University</i>	"Flame Retardant Modification of Natural Products" - Gamini Mendis, Purdue University	
	"Mesoscale Modeling of the Interfacial Mechanics of Nanocellulose Composites" - Sinan Keten , Northwestern University		
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Thursday	25 June 2015		
Thursday,	25 June 2015		
	Specialty Applications I Session Chair: Alan Rudie, National Research Council of Canada	Colloids I: Interface and Self-Assembly Session Chair: Isabelle Capron, French National Institute for Agricultural Research	Renewables III Session Chair: Alain Dufresne, Grenoble Institute of Technology
	"Alkenylated Cellulose Nanocrystals for Applications in Structureal Foam and Rubber" - Wadood Y. Hamad , FPInnovations	"Pickering Emulsions Stabilised by Oxidised Cellulose" - Yun Jin , University of Bath	"Removal of Nickel Ions from Aqueous Solution by Application of Electrospun Chitosan-Polyethylene Oxide Membranres" - Ichrak Lakhdhar, UQTR
8:00 - 9:30	"Transparent Gas Barrier Materials from Chitin Nanofibers" - Carson Meredith, Georgia Institute of Technology	"Encapsulation of π-Conjugated Polymers by Fungal Janus Surfactants" - Cornelia Rosu , Georgia Institute of Technology	TEMPO Mediated Oxidation of Bagasse Pulp: Study on Nanogel, Nanopaper and Nanofibrils Reinforcing Capabilities - Seyed Rahman Djafari Petroudy, Shahid Beheshti University (SBU), IRAN
	"The Influence of Cellulose Nanocrystals on the Rheology of Oil Well Cement Paste" - Yaman Boluk , <i>University of Alberta</i>	"Self-Assembly of Cellulose Nanocrystals Towards Enhanced Property Control" - Jairo A. Diaz , <i>Purdue University</i>	"A Green Approach for Obtaining Nanocellulose from Sugarcane Bagasse Organosolv Pulp" - Beatriz Santucci, <i>Grenoble INP</i> Pagora
	"Flame Retardant Coatings Based on Carbohydrates, Nanoclay, and Borate Salts" - Douglas Fox , <i>American University</i>	"Effect of Ionic Strength on the Viscosity of Cellulose Nanocrystal Suspensions" - Stephanie Beck , <i>FPInnovations</i>	
9:30 - 10:00	Break		
	Specialty Applications II	Colloids II: Viscoelastic Behaviour of Cellulose Nanomaterials in Suspension	Biomedicals I: Drug Delivery Applications
	Session Chair: Wadood Hamad, FPInnovations	Session Chair: Stephanie Beck, FPInnovations	Session Chair: Johan Foster, Virginia Tech
10:00 - 11:30	"Cellulose Nanocrystals and Nanofibers for Renewable Active Materials" - Jaehwan Kim , Inha University	"The role of Xylan in Softwood Pulp on the reaction rate of TEMPO-mediated oxidation and the rheology of the nanocellulose (NFC) gel" - Katarina Dimic-Misic, Aalto University	"Continued Release of Antibacterial Agents Using Cyclodextrin and Cellulose Nanocrystals" - Daniele Oliveira De Castro, Grenoble INP Pagora
	"High Performance Barrier Materials Made from Polyamide – Epicholorohydrin Resin Crosslinked Cellulose Nanofibrils" - Sudhir Sharma, Yulin Deng , <i>Georgia Institute of Technology</i>	"Rheological Property Changes of Pigmented Micro and Nano- Fibrillated Cellulose Suspensions During Dewatering" - Michel Schenker, Omya International AG	"Biosynthesized Nanocellulose for Dura Mater Repair – from Science to GMP Manufacturing" - Wojciech Czaja, <i>DePuy</i> Synthes (Companies of J&J)
	"Industrial applications of Melodea's CNC in packaging and composite foams" - Shaul Lapidot, Melodea Ltd.	"Engineering the colloidal structure of cellulose nanofibres using polyelectrolytes and varying ionic strength to control filtration and sheet properties" - Warren J. Batchelor, Monash University	"Contact Active Antimicrobial Surface Produced by Surface Quaternised Cellulose Nanofibrils" - Julien Bras, <i>Grenoble INP Pagora</i>
	"Surfactant and Polymer-Enhanced CNC Pickering Emulsions, Gels and Oil Powders" - Emily Cranston , <i>McMaster University</i>	"Use of Suspension Gel Point as a Measure of the Quality of the Cellulose Nanofibres Prepared from Spinifex Grass Using Different Conditions" - Alireza Mayahi , The University of Queensland	"New Nanocellulose Based Materials for Stem-Cells Culture" - Julien Bras, Megan Smyth, Grenoble INP Pagora
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	Standards for Cellulosic Nanomaterials	Colloids III: NFC for Barrier Properties: Membranes and Sorption Aspects	Biomedicals II: Biocompatability
	Session Chair: World Nieh, US Forest Service	Session Chair:Warren Batchelor, Monash University	Session Chair: Orlando Rojas, Aalto University
	Update on ISO TC6 Cellulosic Nanomaterials Task Group - Jean Bouchard, FPInnovations	"Barrier Film Based on Cellulose Nanofibers and Tempo-Oxidized Cellulose Nanocrystals" - Julien Bras, Grenoble INP Pagora - LGP2	"In Vitro Cytocompatibility Study of Nanocellulose" - Yuan Lu , Oak Ridge National Laboratory
1:00 - 2:30	ISO TC 229 Technical Report: Nanotechnologies – Characterization of Cellulose Nanocrystals – Linda Johnston, NRC	"Characterization of Pore Size Distribution in Nanofibrillated Cellulose-Based Membranes: Assessment of Different Porosimetry Techniques" - Orsolini Paola , EMPA	"Better, Stronger, Faster Implantable Structured and Functional Bionanocomposite Materials" - Johan Foster , <i>Virginia Tech -</i> <i>Material Science and Engineering</i>
		Water Sorption in Microfibrillated Cellulose (MFC) - Marco Giacinti Baschetti, <i>University of Bologna</i>	"Chitin Nanotubes Based Scaffolds for Neuronal Cell Adheshion" - Sameer S Rahatekar, University of Bristol
	Plans for TAPPI EHS Standards Development – Jo Anne Shatkin, Vireo Advisors After the presentations,		
	breakout groups will meet to discuss different aspects of standards development.		
2:30 - 3:00	Break		
3:00 - 4:30	Panel Discussion Panelist will share perspectives on the advances needed in researce Ireland, Verso Corporation Panelists: Shaul Lapidot, Melodea Lto	h, cross-industry collaboration, and other factors to develop comm d., Johan Foster, Virginia Tech	ercial markets for cellulosic nanomaterials. Moderator: Sean

Wednesday, 24 June 2015

5:30 - 7:00	Poster Session & Student Poster Competition Sponsored by Verso Corporation Session Chair: Robert Moon, USDA Forest Service
	Flax and Hemp Advanced Fibre Based Composites Marcos Latorre, ITENE
	Cereal waste valorisation through development of functional key fibres to innovate in fibre packaging materials Miriam Gallur, ITENE
	Preparation of modified cellulose powders via use of spray-drying technique Sofiya Shopova, ITENE
	Cellulose nanomaterial-based cooperative chemocatalysts for acid-base catalyzed carbon-carbon bond forming reactions Nathan Ellebracht, Georgia Institute of Technology
	Valorization of Tunisian Vegetal Wastes as a Source of Cellulose and Cellulose nanocrystal Alain Dufresne, Grenoble Institute of Technology
l	Mechanical and thermal properties of nanofibrillar cellulose from Posidonia oceanica reinforced styrene butadiene rubber Alain Dufresne, Grenoble Institute of Technology

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Fluorescence methods to probe CNC distribution in polymer composites **Tianyang Leng,** National Research Council

Renewable Biomaterials to Encapsulate and Align Synthetic Semiconducting Polymers Bailey Risteen, Georgia Institute of Technology

Comparative Properties on Highly Transparent All-Cellulose Nanopaper Prepared by Sulfuric Acid Pretreatment and TEMPO-Mediated Oxidation for Energy Devices Xiuxuan Sun, Louisiana State University

Chitin nanofibers as bio-based nanopolymer for film & coating applications Mohammadreza Dehghani, Gorgan University of Agricultural Sciences and Natural Resources

Self-organization behavior of Sugar-based Polyamides in Strong Polar Solvents? Cornelia Rosu, Georgia Institute of Technology

Evaluation of occupational nanoparticles exposure to human and its health risks Muhammad Ilyas, KFUPM

Morphology and selected properties of papermaking fines Jerome Colson, University of Natural Resources and Life Sciences

Advanced approaches for polymer characterization Tom C. Lundin, Kemira

Aqueous foams stabilized by cellulose particles and a small amount of oil **Yi Zhang**, Georgia Institute of Technology

Development of Microcapsules Containing Surface Modified Cellulose Nanocrystals for Optical Applications Youngman Yoo, Purdu University

Cellulose nanocrystals reinforced silica aerogels: microstructure and mechanical properties Jingjing Fu, University of Tennessee

Investigation of nanoporous carbon synthesized from cellulose nanocrystals and lignin Yujie Meng, University of Tennessee

Biocompatible Multi-Membrane Hydrogels from Cationic Cellulose Nanocrystals and Anionic Alginate as Drug Delivery Alain Dufresne, Grenoble Institute of Technology

Protein-assisted active electronics incorporating semiconducting polymers on flexible and foldable cellulose substrates Cornelia Rosu, Georgia Institute of Technology

Effects of surface treatment on the mechanical properties of cellulose nanocrystal reinforced liquid epoxidized natural rubber toughened unsaturated polyester Hanieh Kargarzadeh, University National Malaysia (UKM)

Removal of heavy metal through lignocellulosic waste reinforced lignin-TEOS based nanocomposites Kumari Shweta, Guru Ghasidas

Development of Manufacturing Process of Cellulose Nano Fiber And Its Application For Transparent Sheets And Composites

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Ikue Honma, Oji Holdings Corporation

Preparation of Poly(lacid actic)/Cellulose Nanocrystal Composites by Melt Extrusion Method Liliane Cristina Battirola, University of Campinas

Microstructure and mechanical properties of cellulose nanofibrils foams Florian Martoia, Univ. Grenoble Alpes/CNRS, LGP2

Acid Induced Flocculation of Flame Retardant Coatings Based on Alginate and Nanoclay **Douglas Fox,** American University

Drying and Redispersing Nanocellulose for Use in Transparent Composites Alda Kapllani, Army Research Laboratory

Polyacrylonitrile/Cellulose Nanocrystal Composite Films Jeffrey Luo, Georgia Institute of Technology

Nanocellulose one-pot surface hydrophobization via transesterification with triacylalycerols Maria Mercedes Gonzalez-Bernal, Universidad Industrial de Santander

Grafting modification of cellulose nanofibrils by emulsion polymerization Arie Tri Nugroho Mulyadi, Georgia Institute of Technology

Cationic poly(2-aminoethylmethacrylate) and poly(N-(2- aminoethylmethacrylamide)) modified cellulose nanocrystals: Synthesis, characterization, cytotoxic and inflammatory activities Rajesh Sunasee, State University of New York at Plattsburgh

Dye adsorption behavior of nanofibrillated cellulosic material **William Tze,** University of Minnesota

The Characterization method for determing the re-dispersibility of dried Cellulose Nanofibers (CNFs) in water by using colloidal particle **Takeshi Nakatani**, Nippon Paper Industries Co. Ltd.

Potential for industrial level hydrogen gas production using water, sunlight irradiation, and photocatalytic inorganic semiconductor nanoparticles suspended in cellulose fibers Lewis Luo, University of Washington

Comparative performance of enzyme-mediated preparation of Nanocellulose Valdeir Arantes, University of Sao Paulo

Extraction and characterization of nanocellulose structures from linter Dissolving Pulp Somayeh Ghasemi, Michigan Technical University

Application of Carbonate Buffer Solution in TEMPO-Mediated Oxidation **Zhu Long**, Jiangnan University

Polysulfone Nano-composite membranes for water treatment from petroleum sources Diakanua Nkazi, University of the Witwatersrand

Lignin as a Green Reinforcing Agent for Silicone Elastomers

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Jianfeng Zhang, McMaster University

High Wet Strength and Super Hydrophobic Nanofibre Barriers for Packaging Applications Warren J. Batchelor, Monash University

Cellulose nanofibrill-derived separator membranes for lithium-ion batteries: Effective strategies for control of cellulose network channels Jung-Hwan Kim, UNIST

Exploiting Colloidal Interfaces for Improved Dispersion, Performance, and Pot Life in Cellulose Nanocrystal/Waterborne Epoxy Composites Natalie M. Girouard, Georgia Institute of Technology

Development, Processing, and Novel Applications of Sustainable Nanocellulose Gel Yunsang Kim, University of Georgia

Potential Use of Nanocellulose in High Volume Applications: Challenges and Limitations Mark Miller, Georgia Institute of Technology

Conformal Metallic Coatings on Cellulosic Materials Nikolay Semenikhin, Georgia Institute of Technology