

SMART 2021 Meeting Program

19:40–19:50 Opening remarks by Orlando Rojas (University of British Columbia)

19:50–20:00 Opening remarks by Huijun Guo (Southwest Forestry University)

Date	Time (Kunming)	Speaker's local time	Speaker	Presentation	Session Chair	Session Chair's local time	
15 Aug 2021 (Kunming)	20:00–20:25	14:00–14:25 15 Aug 2021	Lars A. Berglund	Sustainable nanomaterials based on cellulose	Jason Ren Session I	08:00–09:40 15 Aug 2021	
	20:25–20:50	08:25–08:50 15 Aug 2021	Robert J. Moon	Cellulose Nanomaterials: New Materials Enabling New Products			
	20:50–21:15	14:50–15:15 15 Aug 2021	Gustav Nyström	Printed energy storage from wood-derived materials			
	21:15–21:40	09:15–09:40 15 Aug 2021	Yuan Yao	Systems Modeling Approaches to Support Decision-Making for Sustainable Materials			
	Coffee break						
	22:00–22:25	10:00–10:25 15 Aug 2021	Michael Tam	Sustainable Nanomaterials in Environmental Management Systems	Robert Moon Session II	10:00–11:15 15 Aug 2021	
	22:25–22:50	10:25–10:50 15 Aug 2021	Jason Ren	Nanowood Materials for Sustainable Desalination and Resource Recovery			
	22:50–23:15	11:50–12:15 15 Aug 2021	Yonghao Ni	Lignocellulosic Materials for Green/Sustainable Living			

Date	Time (Kunming)	Speaker's local time, Date	Speaker	Presentation	Session Chair	Session Chair's local time	
16 Aug 2021 (Kunming)	14:00–14:25	Recorded video	Emily Cranston	Surface Engineering of Nanocellulose for Sustainable Bioproduct Development	Ingo Burgert Session III	08:00–09:40 16 Aug 2021	
	14:25–14:50	15:25–15:50 16 Aug 2021	Hiroyuki Yano	Nanocellulose Vehicle and its Future towards Sustainable Society			
	14:50–15:15	14:50–15:15 16 Aug 2021	Shu-Hong Yu	Bio-Inspired Manufacturing of Sustainable Structural Materials			
	15:15–15:40	09:15–09:40 16 Aug 2021	Leif Nyholm	Cellulose-based Energy Storage Devices			
	Coffee break						
	16:00–16:25	10:00–10:25 16 Aug 2021	Daniel Söderberg	Mechanisms controlling nanocellulose spinning	Shu-Hong Yu Session IV	16:00–17:40 16 Aug 2021	
	16:25–16:50	10:25–10:50 16 Aug 2021	Kai Zhang	Sustainable cellulose-based functional materials			
	16:50–17:15	10:50–11:15 16 Aug 2021	Ingo Burgert	Functional wood materials for engineering applications			
17:15–17:40	11:15–11:40 16 Aug 2021	Lixian Xu	Building the market for fibrillated cellulose: challenges and opportunities				

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16 Aug 2021 (Kunming)	20:00–20:25	14:00–14:25 16 Aug 2021	Peter Fratzl	Sustainability by adaptation – a close look at natural materials	<i>Yaoqing Zhang</i>	
	20:25–20:50	08:25–08:40 16 Aug 2021	Liangbing Hu	Wood Nanoscience and Nanotechnologies		
	20:50–21:15	14:50–15:15 16 Aug 2021	Antje Potthast	Analysis of Lignin – higher throughput and in-depth characterization – both matters		
	21:15–21:40	09:15–09:40 16 Aug 2021	Markus J. Buehler	Bioinspired Artificial Intelligence and Protein Materials by Design		
	Coffee break					
	22:00–22:25	22:00–22:25 16 Aug 2021	Shouxin Liu	Bioinspired chiral photonic materials from the self-assembly of cellulose nanocrystals	<i>Yaoqing Zhang</i>	
	22:25–22:50	17:25–17:50 16 Aug 2021	Kirsi S. Mikkonen	Transforming hemicelluloses' distinctive properties to unique benefits		
	22:50–23:15	07:50–08:15 16 Aug 2021	Orlando J. Rojas	Renewable Nanoparticles in Superstructured and Multiphase Materials		

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17 Aug 2021 (Kunming)	14:00–14:25	14:00–14:25 17 Aug 2021	Hidayah Ariffin	Superheated Steam Treatment, a Superior Dry Steam Treatment to Improve the Throughput of Cellulose Nanofibrils Processing	Yoshiharu Nishiyama Session V	08:00–09:40 17 Aug 2021	
	14:25–14:50	15:25–15:50 17 Aug 2021	Sang-Young Lee	A Nanocellulose Route Toward Sustainable Li-ion Batteries and Beyond			
	14:50–15:15	14:50–15:15 17 Aug 2021	Ozcan Soydan	Revolutionizing Nanocellulose-Reinforced Composites through the Hub and Spoke Biomaterials Program			
	15:15–15:40	09:15–09:40 17 Aug 2021	Lennart Bergström	Thermally insulating nanofibrillar foams and aerogels			
	Coffee break						
	16:00–16:25	17:00–17:25 17 Aug 2021	Akira Isogai	Suitable applications for chemically pretreated nanocellulose materials based on their morphologies and surface structures	Sang-Young Lee Session VI	17:00–18:40 17 Aug 2021	
	16:25–16:50	10:25–10:50 17 Aug 2021	Yoshiharu Nishiyama	Probing structure and mechanical properties of cellulose materials at nanometer scale by X-ray scattering			
	16:50–17:15	11:50–12:15 17 Aug 2021	Olli Ikkala	Versatile functions of agarose: From strain hardening to materials mimicking associative learning inspired by Pavlovian conditioning			
	17:15–17:40	11:15–11:40 17 Aug 2021	Lars Wågberg	Assembly of cellulose nanofibrils-From colloidal interactions to macroscopic properties			

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17 Aug 2021 (Kunming)	20:00–20:25	09:00–09:25 17 Aug 2021	Carlos Driemeier	Biorefining sugarcane lignocellulose into sustainable fuels, chemicals, and materials	Teng Li Session VII	08:00–09:40 17 Aug 2021	
	20:25–20:50	08:25–08:50 17 Aug 2021	Mehdi Tajvidi	Beyond the lab: Harnessing nano-scale properties of cellulose nanomaterials for large-volume product development			
	20:50–21:15	08:50–09:15 17 Aug 2021	Ning Yan	High Performance Sensors and Energy Storage Devices Enabled by Lignin Containing Nanocellulose Fibrils			
	21:15–21:40	08:15–08:40 17 Aug 2021	Junyong Zhu	Toward Economic and Sustainable Production of Morphologically and Chemically Diverse Lignocellulosic Nanomaterials			
	Coffee break						
	22:00–22:25	09:00–09:25 17 Aug 2021	Xuejun Pan	How lignin is depolymerized in solid state	Liangbing Hu Session VIII	10:00–11:15 17 Aug 2021	
	22:25–22:50	10:25–10:50 17 Aug 2021	Teng Li	Mechanics Design in Cellulose-Enabled High-Performance Functional Materials			
	22:50–23:15	10:50–11:15 17 Aug 2021	Jeffrey Youngblood	Why Cellulose Nanomaterials are the Eco-, Bio-, Nano-Triple Threat of our Sustainable Materials Future			