

## Cellulose Nanomaterials Researchers Forum

August 23-25, 2022

Wells Conference Center, The University of Maine, Orono, Maine

### PROGRAM

<b>Tuesday, August 23, 2022</b>	
Wells Conference Center	
<b>4:30 – 6:30 PM</b>	<b>Welcome Reception &amp; Poster Preview</b>
<b>Wednesday, August 24, 2022</b>	
Wells Conference Center, Room 100	
<b>8:00 – 8:30 AM</b>	<b>Continental Breakfast &amp; Coffee</b>
<b>8:30 – 8:35 AM</b>	<b>Welcome to Nanocellulose Valley, Forum Overview</b>
<b>8:35 – 9:15 AM</b>	<b>“Building the market for fibrillated cellulose: challenges and opportunities”</b> <b>Qi Wang, Ph.D.</b> , R&D Director – Technology Platform & Fiber, Sappi North America
<b>9:15 – 10:00 AM</b>	<b>“Making a sustainable future with cellulose nanocrystals at the Forest Products Laboratory”</b> <b>Ken Zwick, Ph.D.</b> , Assistant Director, Wood, Fibers and Composites Research, U. S. Forest Service, Forest Products Laboratory
<b>10:00 – 10:30 AM</b>	<b>“Accelerating the development of cellulose based materials in partnership with UMaine/Oak Ridge National Laboratory 'Hub and Spoke' program”</b> <b>Susan MacKay, Ph.D.</b> , Senior R&D Program Manager II, University of Maine
<b>10:30 AM</b>	<b>Walk to Ferland EEDC</b>
<b>11:00-12:00 AM</b>	<b>Ribbon Cutting and Dedication Ceremony for the Ferland Engineering Education and Design Center (EEDC)</b>
<b>12:00 – 2:00 PM</b>	<b>Tours of Ferland EEDC (12:30-2:00)</b>
<b>2:00 – 2:30</b>	<b>Break</b>
<b>2:30 – 3:00</b>	<b>“Using cellulose nanofibrils to facilitate foliar fertilizer update in wild blueberries”</b> <b>YongJiang Zhang, Ph.D.</b> , Assistant Professor of Plant Physiology, School of Biology and Ecology, University of Maine
<b>3:00 – 3:30</b>	<b>“Towards a cellulose based packaging system the potential use of cellulose nanofibrils in food packaging”</b> <b>Doug Bousfield, Ph.D.</b> , Calder Professor, Director of the Paper Surface Science Program, Chemical and Biomedical Engineering, University of Maine
<b>3:30 – 4:00</b>	<b>“Use of Supercritical Carbon Dioxide for Generating CNF-based Materials”</b> <b>Carl Tripp, Ph.D.</b> , Professor of Chemistry, University of Maine

4:00 – 4:15	<b>“Intermedial Practices: collaboration with nanocellulose “</b> <b>Augusta Sparks Farnum</b> , Student, Intermedia MFA Program, University of Maine
<b>4:30 – 6:30 PM</b>	<b>Students Poster Competition &amp; Intermedial Practices: collaboration with nanocellulose</b> <b>Wells Conference Center</b> <i>This portion of the program is open to the public</i>

<b>Thursday, August 25, 2022</b> <b>Wells Conference Center, Room 100</b>	
<b>8:00 – 8:30 AM</b>	<b>Continental Breakfast, Coffee</b>
<b>8:30 – 9:15 AM</b>	<b>“Qualifying novel bio-based materials for the market: EHS, sustainability and beyond”</b> <b>Jo Anne Shatkin, Ph.D.</b> , President, Vireo Advisors
9:15 – 9:45 AM	<b>“Advances in Renewable Packaging via Cellulose Nanomaterials at the Renewable Bioproducts Institute”</b> <b>Carson Meredith, Ph.D.</b> , Professor, School of Chemical and Biomolecular Engineering, Georgia Tech and Executive Director, Renewable Bioproducts Institute
9:45 – 10: 15 AM	<b>“Lignin-containing Nanocellulose Materials: Preparation and Perspectives”</b> <b>Yonghao Ni, Ph.D.</b> , J. Larcom Ober Chair and Professor of Chemical Engineering, University of Maine
<b>10:15 – 10:30 AM</b>	<b>Break</b>
10:30 – 11:00 AM	<b>“Versatility in practice: CNM applications that work”</b> <b>Mehdi Tajvidi, Ph.D.</b> , Associate Professor of Renewable Nanomaterials, School of Forest Resources, University of Maine
11:00 – 11:30 AM	<b>“A decade of FBRI and TRC - Where we change the way we use wood”</b> <b>Hemant Pendse, Ph.D.</b> , Director, Forest Bioproducts Research Institute (FBRI), Professor and Department Chair, Chemical and Biomedical Engineering, University of Maine
11:30 – 12:00 PM	<b>“Hub &amp; Spoke: Innovative High-Feed Rate Additive Manufacturing Using Sustainable Thermoplastic Composites”</b> <b>Cait Clarkson, Ph.D.</b> , R&D Associate Staff, Oak Ridge National Laboratory
<b>12:00 – 1:00 PM</b>	<b>Lunch</b>
1:00 – 1:30 PM	<b>“Cellulose Nanomaterial Particle Size Measurements: The Challenges &amp; The Solutions”</b> <b>Robert Moon, Ph.D.</b> , Materials Research Engineer, U. S. Forest Service, Forest Products Laboratory
1:30 – 2:00 PM	<b>“MFC Opportunities with Valmet: Research and Commercial Offering”</b> <b>Juha-Pekka Huhtanen, Dr. Tech.</b> , Process Technology Manager for MFC Production, Valmet Technologies Inc.
2:30 – 3:30 PM	<b>Tour of the PDC New Nanofiber Pilot Plant, Jenness Hall</b>