

## Nanocellulose 2022 DRAFT of Schedule – Previous course next page; 17-21/10

Organizers; Lars Wågberg, KTH and Michael Reid, RISE Bioeconomy

On-Line for the lectures and PhD student presentation IRL

Day 1 17/10		History and Development	Lecturer
09:30	1.1	History and development of nanocelluloses	Michael Reid/Lars Wågberg
10:30	Break		
11:00	1.2	Nanocellulose uses and applications in industry	Fiber Lean, Enrico de Landerset
12:00	Lunch		
13:30	1.3	Structure of the fibre wall; fibril aggregates	Tomas Larsson
14:30	Break		
15:00	1.4	Colloidal Fundamentals	Tobias Benselfelt/Lars Wågberg
Day 2 18/10		Extraction and Modification of Nanocelluloses	Lecturer
09:30	2.1	Extraction and Fundamental Properties of CNFs	Per Larsson/Lars Wågberg
10:30	Break		
11:00	2.2	Physical and Chemical Modification	Eva Malmström
12:00	Lunch		
13:30	2.3	Extraction and Fundamental Properties of CNCs	Michael Reid
14:30	Break		
15:00	2.4	Rheology: Nanocellulose in Flow	Daniel Söderberg
14:30	Break		
16:00	2.5	Health and Environmental Impact	Bengt Fadeel
Day 3 19/10		Characterization and Colloidal Behaviour	Lecturer
09:30	3.1	Model Surfaces and Atomic Force Microscopy	Michael Reid
10:30	Break		
11:00	3.2	Electron Microscopy	Anastasia Riazanova
12:00	Lunch		
13:30	3.3	Optical Properties of Nanocelluloses	Tiffany Abitbol
14:30	Break		
15:00	3.4	Nanocellulose Emulsions	Isabelle Capron
Day 4 20/10		Materials and Outlook	Lecturer
09:30	4.1	Nanocellulose Polymer Composites	Qi Zhou
10:30	Break		
11:00	4.2	Nanocellulose Gels	Gustav Nyström
12:00	Lunch		
13:30	4.3	Electronic Applications of Nanocellulose	Max Hamedi
Day 5 Later		Presentations	
9:30	5.1	Individual Presentations (5 min, plus questions)	
12:00	Lunch		
13:00	5.2	Individual Presentations (5 min, plus questions)	
16:00			

