

NRC 2020 Program

200825

Tuesday August 25

12:30–14:30	<p align="center">Annual Business Meeting of the Nordic Rheology Society Members invited separately</p>	
14:15–14:45	<p align="center">Reception and logging in in the Exhibition Area</p>	
14:45–14:55	<p align="center">Welcome and opening of the conference in the Auditorium</p>	
Lecture Hall	Red Hall	Blue Hall
Symposium	Non-Newtonian fluid mechanics and simulations	Polymer solutions, melts and composites, Rheometry
15:00–15:20	<p>Simon Ingelsten A backwards-tracking Lagrangian-Eulerian method for viscoelastic free surface flow</p>	<p>Olli-Ville Laukkanen Photorheology of UV-crosslinkable polymer solutions</p>
15:20–15:40	<p>Sajjad Pashazadeh Simulation of FENE-P fluid flows at high Weissenberg number using conformation transformation</p>	<p>Rishan Sanjay Frequency Sweep Response of a Simarouba Based Green Magneto-Rheological Fluid</p>
15:40–16:00	<p>Christos K. Georgantopoulos Rheological investigation of extrusion flow for styrene-butadiene rubber: highly sensitive detection slit die in comparison with capillary die</p>	<p>Marko Bek The effect of filler materials and particle loading onto rheology of highly filled polymers</p>
16:00–16:20	<p>Gustaf Mårtensson Numerical simulation of droplet impact of solder paste on a flat surface</p>	<p>Alexandra Aulova Modelling creep compliance at different temperatures using multilayer perceptron: Effect of training data</p>
16:20–16:40	<p>Adrian Rodriguez-Palomo Lyotropic liquid crystals in flow. Nanostructure, alignment and flow behaviour studied by SAXS and microfluidics</p>	<p>Adrian J Hill A practical overview of the methods of yield stress determination using a rotational rheometer</p>
16:40 - 17:30	<p align="center">Avatar mingle, exhibition and posters in the Exhibition Area</p>	

Conference chair: Roland Kádár

Conference chair: Mats Stading

NRC 2020 Program

Wednesday August 26

From 8:00	Logging in to the Virtual Conference Centre	
8:30–9:00	Mats	Perspectives of 3D viscoelastic simulations in process design and optimization - dough kneading as an example of an industrial food process Plenary lecture by Nathalie Germann in the Auditorium
Lecture Hall	Red Hall	Blue Hall
Symposium	Bio-rheology	Rheology of cellulose systems
9:10–9:30	Catherine Taylor Nordgård Rheology of skin mucus from yolk-sac salmon fry	Roland Kádár Controlling the dynamic self-organization of cellulose nanocrystal dispersions through surface topological tuning with asymmetric dialkylchains
9:30–9:50	Mercedes Jiménez-Rosado Evaluation of the gelation process of collagen-based hydrogels via rheological and microstructural analyses	Maria Alonso-González The importance of rheology in the fabrication of nanofibrous materials with potential application in active packaging
9:50–10:10	Estefanía Álvarez-Castillo Improving mechanical properties of a plasma based superabsorbent material through the addition of a crosslinker	Sylwia Wojno Topological mapping of cellulose nanocrystals (CNC) surface modifications via nonlinear oscillatory shear
10:10–10:40	Coffee break and networking in the Exhibition Area	
10:40–11:00	Ioanna N. Besiri <i>In-situ</i> real-time rheological characterization of alginate-Ca ²⁺ gelation using custom-made setup	Mina Fazilati Time-dependency and structural alignment of cellulose nanocrystal suspensions in shear-rheometry coupled with polarized light visualizations
11:00–11:20	Marwa Tallawi Rheological studies of self-crosslinked gelatin hydrogel filled oxidized alginate microspheres	Juha Koivisto Flow of nanocellulose laden flow through a narrow constriction
11:20–11:40	Carlos G. López Large amplitude oscillatory shear rheology of polysaccharide solutions	Mohor Mihelčić The effect of different molar weight of HEC addition on rheological properties of micro-fibrillated cellulose
11:40–12:40	Lunch break and networking in the Exhibiton Area	
12:40–13:10	Rheology and flow induced crystallisation of polydisperse linear polymers Plenary lecture by Daniel Read in the Auditorium	
Lecture Hall	Red Hall	Blue Hall
Symposium	Food rheology	Cellulose cont. and Drilling
13:20–13:40	Heidi Liva Pedersen Novel NUTRAVATM Citrus Fiber and it's ability to Stabilize Emulsions	Pauliina Ahokas Rheological properties of aqueous alkali cellulose solutions
13:40–14:00	Mats Stading Food oral processing – Rheology of the bolus	Olesya Fearon LigniOx lignins for Dispersing Special Carbon Black
14:00–14:20	Pietro Rando Food 3D Printing: Effect of Heat Transfer on Print Stability	Titus Ntow Ofei Effect of barite on the rheological properties of an oil-based drilling fluid
14:20–15:30	Coffee break and poster session in the Exhibitor Area	
	Food and Dispersion Rheology	Rheology of drilling fluids
15:30–15:50	Johanna Andersson Rheology of suspensions of root vegetables as function of processing conditions	Ali Ettehadi A comparative study on thixotropic behaviour of clay based drilling fluids
15:50–16:10	Martin Trulsson Enhanced flowability of dense suspensions due to oscillatory shear	Janaki Umashanker The shear and extensional rheology of xanthan gum and oil-field fluids
16:10–17:00	Closing remarks and presentation of NRC&NPD 2021 in the Auditorium	

NRC 2020, Posters

Herman Camilo Pedrosa Cellulose nanofibers facilitate heavy particle suspension in drilling fluids

Elling-Olav Rukke Influence of freeze storage on rheological properties in Quark

Blandine Feneuil Particle sedimentation during shearing of a transparent emulsions in a Couette cell

Marie Skov Pedersen, Reidar Barfod Schüller Rheological methods for characterization of industrially produced jam

A.V. Mityukov The rheology of highly concentrated suspensions for powder injection molding

María Luisa López-Castejón Interfacial rheology and stability of food foams containing inulin

Nooshin Sharafi Nanorheological analysis of xanthan/water solutions using magnetic nanoparticles with different particle sizes