

Dear friends,

you are most welcome to our seminar that takes place in Sundsvall, October 9 and 10, 2024.

Location: Södra Berget, Sundsvall ([Hotell Södra Berget](#) | [Hotell - Spa - Konferens](#) | [Sundsvall - Västernorrlands län \(sodraberget.se\)](#)).

Scientific program of the seminar

Day 1 (October 9)

12.00 – 13.00	Lunch
13.00 – 13.10	Introduction to the seminar (Dragana Arlov, Srdjan Sasic)
13.10 – 13.30	Dragana Arlov (Tetra Pak), Solid-Liquid mixing in 1500L tanks
13.30 – 13.50	Laszlo Fuchs (KTH), Fluid mechanics of stroke - modeling and consistency issues
13.50 – 14.00	Break
14.00 – 14.20	Anders Åkesjö (Södra), On-line Monitoring of the Size-distribution of Lime Nodules in a Full-scale Operated Lime Kiln using an In-situ Laser-triangulation Camera
14.20 – 14.40	Niklas Hidman (Chalmers), On how to enhance heat transfer in falling film evaporators
14.40 – 15.10	Fika
15.10 – 15.30	Tobias Eidevåg (Volvo Cars), Exterior Water Management at Volvo Cars
15.30 – 15.50	Ruben Wetind (Valmet), Visual observations, measurements and simulations on a dewatering device
15.50 – 16.10	Philip Kjaer Jepsen (Chalmers), Measurements of solids lateral flow in the transport region of a fluid-dynamically down-scaled circulating fluidized bed

16.10 – 16.20	Break
16.20 – 16.40	Lars Uby (Xylem), Effect of bubbly transverse flow on dispersion
16.40 – 17.00	Thisal Mandula Sugathapala (Chalmers), Exploring the Fate of Buoyant Microplastics in Ocean: Impacts from Biofouling and Turbulence
17.00 – 17.20	Kiran Satheeshchandran (KTH), Numerical simulation of blood cells in flow using an Eulerian-Eulerian approach
17.30 – 19.30	Spa
20.00	Dinner

Day 2 (October 10)

8.50 – 9.10	Tobias Forslund (LTU), GPU Implementation of a Multiphase LBM Solver for Free Surface Channel Flow
9.10 – 9.30	Jonathan Bull (Alfa Laval), Development of a 1D Batch Flux Model of Yeast Sedimentation in a Centrifugal Separator
9.30 – 9.50	Johannes Hansson (Chalmers), Using recurrence CFD for efficient particle tracking and deposition simulations
9.50 – 10.10	Kristian Angele (Vattenfall), Spray cooling: steam condensation and heat transfer to a structure
10.10 – 10.40	Fika
10.40 – 11.00	Fredrik Lundell (KTH), Drag increase from large particles in pipe flows: from promoting transition to miniscule effects in turbulence
11.00 – 11.20	Konstantinos Konstantinidis (Chalmers), A numerical study on the influence of surface microstructures in self-cleaning applications
11.20 – 11.40	Kaj Pettersson (Chalmers), Contaminant adsorption using biochar

11.40 – 12.00	Marco Ferrari (Chalmers), Multiscale modelling of food emulsions
12.00 – 12.05	Closing of the seminar
12.05	Lunch
13.15	Buss to Valmet
13.45 – 16.00	Industrial visit (Valmet)
16.10	Buss to train station and airport