

Dear friends,

You are most welcome to our seminar in Älvkarleby on October 8 and 9.

Location: Vattenfall

Hotel: Scandic CH Gävle

There will be buss transport arranged Gävle Station – Vattefall – Gävle Station on both days. Details will be communicated shortly (we aim at 12.15 from Gävle Station on Day 1).

Scientific program of the seminar

Day 1 (October 8)

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| 12.45 | Lunch (Restaurant Kungsådran, Kungsådran - Restaurang med Luncher, Catering, Fester, Bröllop mm - Hem) |
| 13.50 – 14.00 | Introduction to the seminar (Dragana Arlov, Srdjan Sasic) |
| 14.00 – 14.30 | Jia Wei Chew (Chalmers) , AI-based understanding & prediction of fluidized-bed and membrane-filtration behaviors |
| 14.30 – 14.50 | Valentin Scheiff (Mälardalen/Hitachi Energy) , Statistical analysis of boiling flows: CNN segmentation with temporal post processing |
| 14.50 – 15.00 | Break |
| 15.00 – 15.20 | Dragana Arlov (TetraPak) , Modeling bubble dispersion and mass transfer in bioreactors with non-Newtonian fluids |
| 15.20 – 15.40 | Anand Jospeh Michael (Chalmers) , Simulating Brownian Motion using Hydrodynamic Memory Kernels |
| 15.40 – 16.10 | Fika |
| 16.10 – 16.30 | Antonios Monokrousos (Xylem) , A novel CFD model for Moving Bed Biofilm Reactors |
| 16.30 – 16.50 | Mehrdad Mesgarpour ((Mälardalen/Hitachi Energy) , Multiphase Modelling in High-Temperature Metallurgy: A Case Study of Reduction in Slag Fuming Furnaces |
| 16.50 – 17.10 | Johannes Hansson (Chalmers) , Influence of low-frequency wake modulation on cylinder back-side deposition |

