

# **The 4<sup>th</sup> Annual Academic Seminar on Computational Fluid Modelling**

## **Aalto University, School of Engineering, 10<sup>th</sup> and 11<sup>th</sup> of December, 2020**

### **Session 1, Thursday, 10<sup>th</sup> of December at 9:20**

Zeiad Abdelghafor

*Numerical Investigation of The Effect of Vortex Generators on The Speed of Advance of The Kriso Container Ship (KCS)*

Alice Petry and Samuel Rabensteiner

*Runup and Breaking of Solitary Waves*

*An Exploration of the Influence of Turbulence Models on Wave Shoaling.*

Antti Pitkääoja

*Study of Fluidisation Phenomenon in a Bench-Scale Bubbling Fluidised Bed*

### **Session 2, Thursday, 10<sup>th</sup> of December at 12:00**

Matthias Re

*PWR Pressurizer Insurge Characteristic on Three-Dimensional Model*

Valtteri Helaakoski

*Boundary Layer Tripping*

Leevi Salonen

*Teapot Spouts and Pouring Flows*

Juha Hakulinen

*Sub-Channel Void Fraction Calculation of the NUPEC BFBT Fine Mesh Bundle Test Using Eulerian-Eulerian Multiphase Model*

### **Session 3, Friday, 11<sup>th</sup> of December at 9:00**

Antti Teräsverta

*CFD Modelling of a Conceptual Nuclear Reactor Vessel*

Andrea Moglianesi

*Multiphase Flow Splitting in a T-junction*

Teemu Kokkonen

*Flow Around a Flying Disc*

Dongni Yan

*Numerical Simulation of Water Entry of Wedge*