

# Workshop on particle transport; with emphasis on stochastics

(6-7 November, Aarhus University)

Thursday November 6th

8:30-9:20: Mike Reeks (Newcastle University)  
Transport, mixing and agglomeration of particles in turbulent flows

9:20-10:10: Gholamhossein Bagheri (Université de Genève)  
Drag coefficient of non-spherical particles

Coffee Break

10:30-11:20: Jürgen Schmiegel (Aarhus University)  
Ambit Stochastics

11:20-12:10: Emil Hedelevang (Aarhus University)  
From Lévy bases to random vector fields

Lunch

13:30-14:20: Keld Rasmussen (Aarhus University)  
A wind-tunnel study of the discontinuous “Bursting Transport Process” typical for transport near the saltation threshold

Coffee Break

14:50-15:40: Jonathan Merrison (Aarhus University)  
Particulate suspension and entrainment in an environmental wind tunnel

Visit: Mars Wind Tunnel

Friday November 7th

8:30-9:20: Jürgen Geiser (Ruhr University of Bochum)  
Splitting Methods for Particle Transport: Theory and Application in Plasma Simulations

9:20-10:10: Gianni Pagnini (Basque Center for Applied Mathematics)  
Stochastic processes for symmetric space-time fractional diffusion

Coffee Break

10:30-11:20: Robert Patterson (Weierstrass Institute Berlin)  
Convergence of coagulation-advection simulations

11:20-12:10: Constanza Bonadonna (Université de Genève)  
Particle sedimentation from volcanic plumes

Lunch

13:30-14:20: Joern Sesterhenn (Technische Universität Berlin)  
CFD modelling of high velocity turbulent flows and the re-suspension and transport of particles

Coffee Break

14:50-15:40: Adam Durant (University of Oslo)  
Aerosols in aerospace and stochastic modelling

15:40-16:30: Bernadett Weinzierl (Deutsches Zentrum für Luft- und Raumfahrt)  
Atmospheric aerosol transport; sensing systems and models

19:00-: Diner at Restaurant Cina Palace