



7th MC-WG Meeting of COST Action FP1005

June 3-5, 2014 KTH & NORDITA, Stockholm (Sweden)

Agenda

DAY 1 – TUESDAY, JUNE 3

08:30	Registration and coffee
09:20	Welcome Address
09:30	<u>Keynote</u> : Flow processes for novel nano structured bio-based materials Speaker: Daniel Söderberg (Royal Institute of Technology, Stockholm, Sweden)
10:10	EIT use latest advances: characterization of pulp suspension distribution and estimation of suspension velocity Speaker: Pedro Faia (University of Coimbra, Coimbra, Portugal)
10:30	Online orientation measurements of elongated particles by X-ray scattering Speaker: Karl Håkansson (Royal Institute of Technology, Stockholm, Sweden)
10:50	Cost effective drag reduction by bio-polymer additives in industrial size turbulent pipe flow Speaker: Mattia Simeoni (University of Udine, Udine, Italy)
11:10	Transitional fibre suspension flow in a plane channel Speaker: Matias Kvick (Royal Institute of Technology, Stockholm, Sweden)
11:30	Lunch
13:00	Fiber photogrammetry Speaker: Pentti Saarenrinne (Tampere University of Technology, Tampere, Finland)

13:20	Novel experimental results on the rheology of fiber-laden foams Speaker: Antti Koponen (VTT, Jyväskylä, Finland)
13:40	Numerical modelling of air-fiber flows Speaker: Jelena Andric (Chalmers University of Technology, Gothenburg, Sweden)
14:00	New advances in modelling of fiber suspension flow using a pseudo- homogeneous approach Speaker: Maria Graça Rasteiro (University of Coimbra)
14:20	Lattice Boltzmann simulation of finite size particle-fluid suspension and sedimentation Speaker: Minh Do-Quang (Royal Institute of Technology, Stockholm, Sweden)
14:40	Coffee Break
15:10	On the validity of Jeffery torques for rigid particles in turbulence Speaker: Jure Ravnik (University of Maribor, Maribor, Slovenia)
15:30	On the relative motion between rigid fibers and fluid in turbulent channel flow Speaker: Cristian Marchioli (University of Udine, Udine, Italy)
15:50	Nonlinear rotational dynamics of a spheroidal particle in simple shear flow Speaker: Tomas Rosen (Royal Institute of Technology, Stockholm, Sweden)
16:10	Force and torque on a finite-size inclined fiber Speaker: H.I. Andersson (Norwegian Univ. of Science & Technology, Trondheim, Norway)
16:30	Funding opportunity for European universities to perform pilot trials at Innventia Speaker: Paul Krochak (Innventia, Stockholm, Sweden)

16:40 Closing Discussion

18:00 Transfer to Dinner

18:30 Social Dinner

DAY2 – WEDNESDAY, JUNE 4

09:00	Viscoelastic fluid suspension problems in fracking and drilling		
	Speaker: Eric S.G. Shaqfeh (Stanford University, Stanford, USA)		
09:20	Laboratory and numerical models for logjams		
	Speaker: Michael Wilkinson (Open University, Milton Keynes, UK)		
09:40	Chaotic sedimentation of low-Re particles in a vertical channel : the effect of		
	particle/particle and particle/wall interactions		
	Speaker: Jean-Regis Angilella (Universitè de Caen, ESIX/LUSAC, France)		
10:00	Coffee Break		
10:30	Break-up of small aggregates in bounded and unbounded turbulent flows		
	Speaker: M.U. Babler (Royal Institute of Technology, Stockholm, Sweden)		
10:50	Numerical and experimental studies on irregular non-spherical particle transport		
	Speaker: Martin Sommerfeld (Martin-Luther-Universität Halle-Wittenberg, Halle, Germany)		
11:10	Perspectives for the understanding of complex deposits on surfaces		
	Speaker: Christophe Henry (University of Gdansk, Gdansk, Poland)		
11:30	How large particles filter the motions of ambient turbulence		
	Speaker: Evan Variano (UC Berkeley, Berkeley, USA)		
11:50	Lunch		
13.00	Lab-visit at KTH Mechanics (approx 1 hour)		
14.00	Tour at Innventia AB (approx 2 hours)		

DAY3 – THURSDAY, JUNE 5

15:00	Meeting closure
13.00	MC meeting and proposals discussion
12:00	Lunch
11.00	Update on Horizon 2020 proposals
09.00	WG meetings