



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 |
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| 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) |
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| 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 | | |
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| | 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) | | |
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DAY3 – THURSDAY, JUNE 5

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