

8th MC-WG Meeting of COST Action FP1005

October 22-24, 2014

Université de Caen, LUSAC & M2C, Caen (France)

Agenda

DAY 1 – WEDNESDAY, OCTOBER 22

09:30 **Registration and coffee**

10:10 **Welcome Address**

10:20 **Comparing different techniques to evaluate solids suspension flow in pipes and assessment through simulation**

AUTHORS: R. Silva (University of Coimbra), P. Faia (University of Coimbra), F. Garcia (University of Coimbra), F. Lundell (KTH Stockholm), M.G. Rasteiro (University of Coimbra)
SPEAKER: M.G. Rasteiro, WG2, University of Coimbra, Coimbra (PT)

10:30 **Predicting pressure drop in a pipe flow of concentrated pulp suspensions**

AUTHORS: C. Cotas (University of Coimbra), D. Asendrych (Czestochowa University of Technology), F. Garcia (University of Coimbra), P. Faia (University of Coimbra), M.G. Rasteiro (University of Coimbra)
SPEAKER: D. Asendrych, WG3, Czestochowa University of Technology, Czestochowa (PL)

11:00 **Coffee Break**

11:30 **Pressure loss evaluation in polymer and fiber laden flows: Update on Test Case**

AUTHORS: M. Simeoni, M. Campolo, A. Soldati (University of Udine)
SPEAKER: M. Simeoni, WG3, University of Udine, Udine (IT)

11:50 **Flocculation of cellulose fibres in a pipe flow: Preliminary measurements of floc size by ultrasonic technique (UVP)**

AUTHORS: S. Skali-Lami (University of Lorraine), M. Campolo (University of Udine), M. Simeoni (University of Udine)

SPEAKER: S. Skali-Lami, WG2, University of Lorraine, Nancy (FR)

12:10

Experimental analysis of the wall collision of irregular and regular shaped non-spherical particles

AUTHORS: M. Sommerfeld and Z. Qadir (Martin Luther Univesitat Halle-Wittenberg)

SPEAKER: M. Sommerfeld, WG3, Martin Luther Univesitat, Halle-Wittenberg (DE)

12:30

Lunch

14:00

Particles settling in a cellular flow field at low Stokes number

AUTHORS: D. Lopez, L. Bergougnoux , G. Bouchet, E. Guazzelli (Aix-Marseille Univ.)

SPEAKER: D. Lopez, WG1, Aix-Marseille Univ., CNRS, Marseille (FR)

14:20

Impact of fiber rotation on suspension rheology - a first try

AUTHORS: H. Andersson (NTNU Trondheim)

SPEAKER: H. Andersson, WG3, NTNU, Trondheim (NO)

14:40

Rheological properties of dilute suspensions of flexible and curved fibers

AUTHORS: J. Andric (Chalmers Univ. Technology), S. Sasic (Chalmers Univ. Technology), H. Nilsson (Chalmers Univ. Technology), S.B. Lindstrom (Linkoping University)

SPEAKER: J. Andric, WG3, Chalmers University of Technology, Gothenburg (SE)

15:00

Coffee Break

15:30

On the validity of Jeffery torques for rigid particles in turbulence

AUTHORS: J. Ravnik (University of Maribor), C. Marchioli (University of Udine), A. Soldati (University of Udine)

SPEAKER: J. Ravnik, WG3, University of Maribor, Maribor (SI)

15:50

On the relative motion between rigid fibers and fluid in turbulent channel flow

AUTHORS: C. Marchioli (University of Udine), H.I. Andersson (NTNU Trondheim), L. Zhao (NTNU Trondheim)

SPEAKER: C. Marchioli, WG3, University of Udine, Udine (IT)

16:10 Closing Discussion

19:00 Transfer to Dinner

19:30 Social Dinner

DAY2 – THURSDAY, OCTOBER 23

09:30	Dynamics of a dumbbell in a linear flow by the method of reflexions AUTHORS: F. Candelier (University of Marseille) SPEAKER: F. Candelier, WG3, University of Marseille (FR)
09:50	A critical examination of the Basset-Boussinesq force AUTHORS: Michael Wilkinson (Open University) SPEAKER: Michael Wilkinson, WG3, Open University, Milton Keynes (UK)
10:10	Dynamics of triaxial particles using a bi-vector formulation AUTHORS: Jean-Regis Angilella (Université de Caen, LUSAC, France) SPEAKER: Jean-Regis Angilella, WG3, Université de Caen, LUSAC, Caen (FR)
10:30	Fluid inertia correction of Jeffery torques for a single spheroid in linear shear flow at low particle Reynolds number AUTHORS: T. Rosen, F. Lundell (KTH Stockholm) SPEAKER: T. Rosen, WG3, KTH Stockholm, Stockholm (SE)
10:50	Coffee Break
11:20	WG meetings
12:20	Lunch
14.00	WG meetings (cont'd)
16.00	Tour of laboratories

DAY3 – FRIDAY, OCTOBER 24

10.00	MC meeting
12:00	Meeting closure
12:15	Lunch