



## Cost Action FP1005

### Fibre suspension flow modelling – a key for innovation and competitiveness in the pulp & paper industry

#### MC and WG Meeting Agenda

Nancy 13–14 October 2011 INPL: 2 av. de la Forêt de Haye – Vandoeuvre–les Nancy

#### DAY 1 – THURSDAY, OCTOBER 13, 2011

1. (9:30–9:45) Welcome to participants by chairman and local organiser
2. (9:45–10:00) Report on the status of the Action (C. Marchioli)
3. (10:00–10:20) Short Term Scientific Missions: application procedure (D. Asendrych)
4. (10:20–10:50) Coffee Break
5. (10:50–12:30) Scientific presentations from Action members and experts collaborating in each WG
  - *Work at KTH, Stockholm: themes and equipment* **F. Lundell** (WG1)
  - *A study of rheological properties of complex fluids. A proposal for co-operation* **J. Salmela** (WG1)
  - *Experimental investigation on secondary structures developing in a turbulent pipe jet and extension to fibre laden case* **A. Capone** (WG1)
  - *Modeling fiber suspensions flows using rheological data* **M.G. Rasteiro** (WG2)
  - *Complex Impedance Tomography: A non-invasive procedure for imaging two-phase flow systems* **P. Faia** (WG2)
  - *Fibre orientation and related head-box optimization systems* **J. Hamalainen** (WG3)
  - *On the orientation of flat objects in Brownian shear flows* **J.L. Angilella** (WG3)
  - *Simulation of micro structure mechanics in dynamic fibre networks* **T. Kuntzsch** (WG3)
6. (12:30–13:30) Lunch Break
7. (13:30–15:30) Scientific presentations from Action members and experts collaborating in each WG
  - *New challenges in modeling the flow in fibrous suspensions: increasing the secondary fiber content of paperstock* **F. Ciolacu** (WG1/WG2)
  - *Ceprohart expertise in the field of fibre suspension flow. Future challenges* **P. Nechita** (WG1)
  - *Imaging methods in multi-phase flow research* **P. Saarenrinne** (WG1)

- *Rheological concepts for improving efficiency in papermaking operations* **J.C. Roux** (WG2)
- *Friction loss and velocity profile in pulp flows* **M. Rueff** (WG1/WG2)
- TBA **R. Zelm** (WG2)
- *Two sectors, same questions: Flow simulations as tools in paper and wood-based panel manufacture* **H. Thömen** (WG3)
- *Modelling of gas–solid turbulent channel flow with non–spherical particles with large Stokes numbers* **B. van Wachem** (WG3)
- *Simulations of inertial point–particles at NTNU. Part I: Overview of recent activities* **L. Zhao** (WG3)
- *Simulations of inertial point–particles at NTNU. Part II: Some recent examples* **C. Nilsen, L. Zhao** (WG3)
- *Microstructure simulation of early paper forming using immersed boundary methods* **E. Svenning** (WG3)

8. (15:30–16:00) Coffee Break

9. (16:00–18:30) Management Committee meeting (for MC members/substitutes only)

- 9.1 Adoption of the MC meeting agenda
- 9.2 Presentation of the delegations
- 9.3 Adoption of the kick–off meeting minutes
  - 9.3.1 News from the Chair (C. Marchioli)
  - 9.3.2 News from the Administrative Officer (C. Azevedo)
- 9.4 Nomination and selection of new experts (from both COST and non–COST countries) to be invited to working group meetings
- 9.5 Training school 2012 on experimental methods at VTT and KTH
  - 9.5.1 Presentation of current schedule
  - 9.5.2 Selection of lecturers and attendees
- 9.6 Short Term Scientific Missions (STSM)
  - 9.6.1 Evaluation and decision on submitted STSM applications
- 9.7 Dissemination
  - 9.7.1 Book publication: selection of contributions and publication deadlines
  - 9.7.2 Annual report
  - 9.7.3 Symposium on "Rheology of fiber suspensions" at the XVI<sup>th</sup> Intern. Congress on Rheology: Announcement by M.G. Rasteiro
- 9.8 Action website
  - 9.8.1 Report on current state (by C. Marchioli )
  - 9.8.2 Discussion on further development and content
- 9.9 Place and date for the next MC Meeting
- 9.10 Any Other Business (AOB)
  - 9.10.1 Definition of test cases (to be discussed further within the parallel WG meetings)
  - 9.10.2 "Tour de table" Report of WG leaders on:
    - Present/future WG activities
    - Present/future national coordination and communication activities

10. (20:00.23:00) Social Dinner (<http://www.brasserie-excelsior.com/pratique/en/>)

## DAY 2 – FRIDAY, OCTOBER 14, 2011

1. (9:30–11:00) Parallel WG meetings (chaired by WG leaders)
  - 1.1 Definition of test cases
  - 1.2 Involvement of industrial partners
    - 1.2.1 Which industrial partners?
    - 1.2.2 Procedure for inviting industrial partners to meetings
  - 1.3 Expected output during the Action's first year
  - 1.4 Place and date for the next WG Meeting (if needed)
  - 1.5 AOB
2. (11:00–11:30) Coffee Break
3. (11:30–12:30) Open technical discussion
  - 3.1 Report of each WG leader on WG meeting decisions/outcomes
  - 3.2 Auditors' comments
4. (12:30–13:30) Lunch Break
5. (13:30–15:00) Open technical discussion
  - 5.1 Selection of relevant test cases
  - 5.2 Final remarks
6. (15:00–15:15) Closure of the Meeting

### Notes:

- Juha Salmela will give a presentation on *Laboratory-Scale Pipe Rheometry: A Study of a Microfibrillated Cellulose Suspension* during the WG1 Meeting