



# **FP1005: Fibre suspension flow modelling - a key for innovation and competitiveness in the pulp & paper industry**

**Start date: 11 May 2011**

**Cristian Marchioli**

FP1005 MC7, NORDITA, Stocckholm, 05 June 2014



# AGENDA

05/06/2014 11:30-12:30

- 1. Welcome to participants**
2. Adoption of agenda
3. Minutes of last meeting
4. News from the Chair
5. Progress report of working groups
6. Action planning
7. STSM status, applications
8. Training Schools
9. Action's Final Conference
10. Publications, dissemination and outreach activities
11. Request for new members
12. Promotion of gender balance and of Early Stage Researchers (ESR)
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15. AOB
16. Closing



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# Status of the COST Action

## Action details

MoU: 4201/10

CSO Approval: 02/12/2010

Entry into force: 20/01/2011

Start of Action: 11/05/2011

End of Action: 10/05/2015 (first MC meeting + 4 years)

Chair: Cristian Marchioli (IT)

DC Rapporteur: Andras Vig (HU)

Budget: 108 200 € for GP4 (01/07/2014 – 10/05/2015)

## Parties (03/06/2014)

Already accepted the MoU: 17 countries (AT, CH, DK, ES, FI, FR, DE, IL, IT, NL, NO, RO, PL, PT, SI, SE, UK)

Current participants: 54(8) in WG1, 47(11) in WG2, 58(5) in WG3

Gender Balance: 15.1%



# DC Monitoring at APC

FP1005 DC Monitoring Statement approved by DC  
FPS in Belgrade:

The results achieved to date by the Action match the objectives set in the Memorandum of Understanding. The number of meetings, Training Schools and STSMs met expectations. The activity of the participants has been again excellent at these events. A major achievement of the Action is the elaboration of test cases for “Fibre suspension flow modelling” in the frame of an International Collaborative Benchmark. The DC encourages the Action to enhance contact with industry, in particular equipment manufacturers, in order to ensure an economic impact as well as (scientific impacts) from the Action. The results of the Action have been disseminated in several papers in peer-reviewed journals and conferences one among them was “A special issue on anisotropic particles in turbulence” in the journal Acta Mechanica.

# Use of COST Instruments

Activity (No.)	Year 1	Year 2	Year 3	Year 4
MC/WG Meetings	2	2	2	-
STSMs	5	11	7	-
Training Schools	1	1	2	-
Workshops or Conferences	1	2	4	-
Joint Publications	2	8	14(7)	-





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# Budget status for 3rd GP

		Payments BUDGET	Payments ACTUALS	Date Paid
(3)	Payments Schedule			
	(3.1) Carry over from previous grant period		22,233.36 EUR	2013-07-01
	(3.2) First Payment	81,250.00 EUR	59,016.64 EUR	2013-10-24
(4)	Sub-total payments	81,250.00 EUR	81,250.00 EUR	
			Actuals+Accruals	Forecast
(5)	Eligible costs till 2014-03-14		52,342.28 EUR	49,422.10 EUR
				101,764.38 EUR
	Outstanding balance / Carry-over			
(6)	In favour of ESF COST		-28,907.72 EUR	49,422.10 EUR
(7)	In favour of the Grant Holder			20,514.38 EUR

Table 1 - Eligible costs	Contract Budget EUR a	Actuals EUR b	Accruals EUR c	Total eligible EUR d=b+c	Forecast EUR e	Total EUR f=d+e	Delta EUR g=f-a
<b>A. Science Expenditure</b>							
A1. Total Meetings (*)	58,300.00	38,650.98	0.00	38,650.98	28,800.00	67,450.98	9,150.98
A2. Total STSMs (*)	29,000.00	3,169.00	7,687.00	10,856.00	17,344.00	28,200.00	-800.00
A3. Total Training Schools (*)	20,000.00	0.00	16,366.68	16,366.68	9,130.00	25,496.68	5,496.68
A4. Total Dissemination, publications (*)	1,500.00	1,999.90	444.90	2,444.80	0.00	2,444.80	944.80
A5. Total OERSA(**) (*)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Science Expenditure (sum: A1 to A5)</b>	<b>108,800.00</b>	<b>43,819.88</b>	<b>24,498.58</b>	<b>68,318.46</b>	<b>55,274.00</b>	<b>123,592.46</b>	<b>14,792.46</b>
<b>B. FSAC (Max. 15% of A) (***)</b>	16,200.00	6,524.65	3,647.77	10,172.42	6,027.58	16,200.00	0.00
<b>C. Total Eligible Costs (= A+B)</b>	<b>125,000.00</b>	<b>50,344.53</b>	<b>28,146.35</b>	<b>78,490.88</b>	<b>61,301.58</b>	<b>139,792.46</b>	<b>14,792.46</b>

# Budget for 3rd GP

	Budget	Spent
STSMs <sup>1</sup>	29 000	12 750
Meetings	58 300	54 500
• <i>Participant travel costs</i> <sup>2</sup>	54 000	49 500
• <i>Local Organiser Support</i> <sup>3</sup>	3 800	4 000
Training School <sup>4</sup>	20 000	25 600
Dissemination	1 500	2 450
Scientific Expenditure	108 800	95 300
Grant Holder FSAC <sup>5</sup>	16 200	14 300
<b>TOTAL BUDGET</b>	<b>125 000</b>	<b>109 600</b>

1 @ least 4 per year as per COST Strategy ESRs

2 Average reimbursement = 800 €/ person

3 LOS (meetings and Training Schools) = 30 €/ participant

4 Trainees  $n1 \times \# \text{€ grant} + \text{Trainers } n2 * 800 \text{ € avg reimbursement} + \text{LOS @ } (n1+n2) * 30 \text{ €} = \text{Training School budget}$

5 Under COST Grant System –Grant Holder payment “FSAC” (max 15% of scientific expenditure)

# Budget for 4th GP

	Budget	Spent
STSMs <sup>1</sup>	22 000	-
Meetings	51 000	-
• <i>Participant travel costs</i> <sup>2</sup>	54 000	-
• <i>Local Organiser Support</i> <sup>3</sup>	3 800	-
Training School <sup>4</sup>	15 000	-
Dissemination	6 100	-
Scientific Expenditure	94 100	-
Grant Holder FSAC <sup>5</sup>	14 100	-
<b>TOTAL BUDGET</b>	<b>108 200</b>	<b>-</b>

1 @ least 4 per year as per COST Strategy ESRs

2 Average reimbursement = 800 €/ person

3 LOS (meetings and Training Schools) = 30 €/ participant

4 Trainees  $n1 \times \# \text{€ grant} + \text{Trainers } n2 * 800 \text{ € avg reimbursement} + \text{LOS @ } (n1+n2) * 30 \text{ €} = \text{Training School budget}$

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# STSM status: 3rd GP

7 Applications (5 ESRs, 1 female)

Budget: 29 000 €

Claims: 12 376 €

ID	Participant	Start	End	Duration	Letter	Report
14426	Mr Daniel Queteschiner	2013-07-08	2013-08-02	26 days	Downloaded	Accepted
15374	Mr LIHAO ZHAO	2013-11-05	2013-11-16	12 days	Downloaded	Accepted
16471	Ms Carla Cotas	2014-02-03	2014-04-05	62 days	Downloaded	Accepted
16744	Dr Salaheddine SKALI-LAMI	2014-03-02	2014-03-11	10 days	Downloaded	Accepted
16514	Dr Jure Ravnik	2014-03-17	2014-04-11	26 days	Downloaded	Accepted
18887	Dr Cristian Marchioli	2014-05-04	2014-05-17	14 days	Downloaded	<a href="#">Review Claim</a> <a href="#">Report Accept</a>
20160	Mr Jouni Elfvengren	2014-05-24	2014-06-15	23 days	Downloaded	<a href="#">Review Claim</a> <a href="#">Report Accept</a>



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# Training Schools

- Collective dynamics of particles: from viscous to turbulent flows  
[http://www.fp1005.cism.it/pages/FP1005\\_ts2014coll.html](http://www.fp1005.cism.it/pages/FP1005_ts2014coll.html)
- Supported by **COST** (FP1005), **ERCOFTAC** (SIG12, SIG43) and ANR (Codspit project)
- 26-30 May 2014, CISM (Italy)
- Organizers: C. Marchioli, G. Bouchet
- Trainers: G. Bouchet (Marseille), **M. Maxey** (Brown Uni.), **H. Homann** (Nice), **M. Bourgoïn** (Grenoble), J. Hinch (Cambridge), J. Butler (Florida Uni.)
- Trainees: 34 (12 from FP1005)



# Training Schools

- Particle characterization and multiphase flows monitoring  
[http://www.fp1005.cism.it/pages/FP1005\\_ts2014monit.html](http://www.fp1005.cism.it/pages/FP1005_ts2014monit.html)
- Supported by **COST** (FP1005)
- 16-18 June 2014, Dept. Chemical Engineering, University of Coimbra (Coimbra)
- Organizers: G. Rasteiro, P. Faia
- Trainers: **G. Rasteiro** (UC), **P. Faia** (UC), F. Garcia (UC), P. Ferreira (UC), **J. Salmela** (VTT), **E. De La Fuente** (Madrid), **M. Martinez** (UBC)
- Trainees: 13 (13 from FP1005)



# Training Schools

- Proposals for 2015 Training School?
  - “TITLE”  
Location: ??  
Possible dates: ??  
Organizer: ??



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# Action's Final Conference

- Joint COST-EUROMECH Conference on “Anisotropic particles in turbulence”
- Location: NTNU (Trondheim, NO)
- Motivation: Accessibility and cost of flights
- Local Organizers: H.I. Andersson, A. Soldati
- Expected # participants: min 40 / max 60
- 4 days
- Dates: June 2015 (preferred dates: 09-12 June)



# Action's Final Conference

From Vademecum:

*The COST Action may be extended beyond its originally intended end date if, during the course of the Action, the MC determines that it is, for technical reasons, impossible to bring the work under the Action to a satisfactory conclusion within the originally envisaged period of duration. Extensions of COST Actions are exceptional and must be duly justified from an S&T or network activities point of view. Should the COST Action that requests an extension need a budget increase, both requests must be introduced at the same time. The final assessment of Actions having benefited from an extension shall include a dedicated section assessing the extension period (see COST 4114/13).*



# Action's Final Conference

From Vademecum:

*The Action MC can decide to organise a final workshop or conference serving to highlight and showcase the achievements of the Action. It should be the last activity of the Action and must occur before the end of the last grant period. It serves to disseminate the Action achievements. In duly justified exceptional cases, and following a formal request for approval from the COST Office, the final workshop or conference may take place after the official Action's end date. The request for approval of this final event must be scientifically justified and submitted at least 6 months before the end of the final grant period. When under consideration, the request for an extension of the Action's duration will need to be formally approved by the COST Office, the DC and the JAF.*



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# Publications, dissemination and outreach activities

- Publications:
  - Published papers & Acknowledgments
- Dissemination
  - Special Issue on Int. J. Multiphase Flows
  - Short paper to Nordic Pulp & Paper Research Journal (or similar)
  - Books of Training School lectures
  - BPG?
    - Review of experimental techniques for measuring fiber suspensions



# Publications, dissemination and outreach activities

Presentation of Action's activity at:

- ASME/FEDSM Conference, 03-07 August 2014 (4<sup>th</sup> GP)  
DISSEMINATION MEETING!
- Others?

Outreach activity:

- Collaborations with Association of European Fibre and Paper Research Organisation (EFPRO)
  - Joint Early Stage Researchers Workshop (past editions: 26-27 Nov. 2013, 13-15 Nov. 2012, 15 Nov. 2011)
  - Contacted Secretary General (Martina Harting)



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# Promotion of gender balance and of ESR

- The total number of participants currently involved in the Action work is 159 (63 ESRs, 24 fem).
- The percentage of female participants is 15,1% (+1.1%).
- The percentage of ESR is 39% (+0%).



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# Non-COST country participations

- Completed applications from non-COST country institutions

Institution	Country	Researcher(s)
Wesleyan University	USA	Greg Voth
SUNY College	USA	B. Ramarao
University of British Columbia	CAN	J. Olson
University of California Davis	USA	R. Powell
University of Sao Paulo	BRA	S.W. Park

- No new applications from non-COST country institutions



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# Place and date of next meeting

- COST FP1005 MC/WG meeting
- Location: Université de Caen Basse Normandie (Caen, FR)
- Motivation: Accessibility and cost of flights
- Local Organizer: J.R. Angilella (WG3)
- Expected # participants: min 20 / max 35
- Max 3 days
- Dates: October 2014 (2<sup>nd</sup> half)



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