

## **COST Action CM1101**

# **Colloidal Aspects of Nanoscience for Innovative Processes and Materials**

## **Report & Plans for 2nd Year**

**3rd MC Meeting + WG3+4+5 Meeting, La Valetta 24-25.01.2013**

# STATUS OF THE ACTION

**Number of participating countries:** 31 + 3 NON-COST (UA, AUT, EGY)

## **Working Groups:**

**WG1 - Interfacial phenomena - fundamentals, modelling and analytical methods**  
Coordinator: Dr. Francesca Ravera, 21 groups

**WG2 - Self-assembly and colloidal interactions: from specific to long-range**  
Coordinator: Prof. Regine von Klitzing, 30 groups

**WG3 - Synthesis of nano- and bio-colloidal materials: development and upscaling**  
Coordinator: Prof. Enrique Lopez-Cabarcos, 35 groups

**WG4 - Kinetic and catalytic aspects of nano-colloids and nano-structured surfaces,** Coordinator: Prof. Ger J.M. Koper, 13 groups

**WG5 - Processes and materials for everyday life and biomedical applications**  
Coordinator: Prof. Thomas Zemb, 21 groups

**WG6 - Colloid-based devices: sensors, assays, photonics and micro-fluidics**  
Coordinator: Prof. Jouko Peltonen, 11 groups

# CM1101 – Meetings 1Y

| Event  |            |           |   | Number of Participants |
|--|------------|-----------|---|------------------------|
| Type   | End Date   | City      | Title   | Paid                   |
| Working Group Meeting, Workshops/Conferences                               | 2012-04-04 | Sofia     | Discussion on Hydration Forces                                | 18                     |
| Working Group Meeting, Workshops/Conferences                               | 2012-05-23 | Krakow    | Bubble and Drop Interfaces 2012                               | 19                     |
| Working Group Meeting  | 2012-06-19 | Barcelona | Nano-biocolloidal materials and non-equilibrium self-assembly | 19                     |
| Management Committee Meeting, Working Group Meeting, Workshops/Conferences | 2012-09-05 | Malmoe    | ECIS2012 Conference   | 51                     |

La Valetta 24.01.2013

Delft 30.01.2013

# CM1101 – Training Schools 1Y

| Event  |            |            |  | Number of Participants |
|--------|------------|------------|--|------------------------|
| Type   | End Date   | City       | Title  | Paid                   |
| (n.a.) | 2012-04-13 | Regensburg | School on Surface Analytical Techniques  | 31                     |
| (n.a.) | 2012-06-14 | Gironde    | 11th European Summer School on "Scattering Methods Applied to Soft Condensed Matter" | 9                      |

# CM1101 - STSMs 1Y

| Event                              |            |          |   | Number of Participants |
|------------------------------------|------------|----------|---|------------------------|
| Type                               | End Date   | City     | Title   | Paid                   |
| STSM from Germany to Poland        | 2012-07-23 | Krakow   | Rising bubbles through a liquid coulmn  | 1                      |
| STSM from Turkey to Ireland        | 2012-08-02 | Cork     | Colloidal Aspects of Nanoscience for Innovative Processes and Materials                     | 1                      |
| STSM from Germany to Poland        | 2012-07-22 | Karakow  | Experiments of rising bubbles in surfactant solutions as basis for CFD simulations          | 1                      |
| STSM from Germany to Portugal      | 2012-08-17 | Coimbra  | Rheologic behaviour of gelled bicontinuous microemulsions                                   | 1                      |
| STSM from Italy to Spain           | 2012-09-29 | MADRID   | Connections and discrepancies in the results of rheology experiments on Langmuir monolayers | 1                      |
| STSM from Spain to Austria         | 2012-10-27 | Graz     | TRANSFER KINETICS OF LIPIDS IN HYERARCHICALLY ORGANIZED SYSTEMS                             | 1                      |
| STSM from Greece to France         | 2012-11-11 | Nancy    | SAXS Study on Microemulsions considered as Drug carriers                                    | 1                      |
| STSM from Lithuania to Netherlands | 2012-12-14 | Enschede | Application of Cellulose Derivatives as Wound Dressing Materials                            | 1                      |

## STSMs still to account for:

- Bulgaria to Germany, Berlin, „The surface layer as basis for foam formation and stability”;
- Denmark to Germany, Garching, „Nanodiscs in plane structure”;
- Netherlands to Lithuania, Kaunas, „Laccase-mediated dyeing of wool with natural dyes and synthesis of silver nanoparticles”

WEB Page: <http://projects.um.edu.mt/cm1101/>

CM1101 Action presentation at NanoTP COST MP0901 –  
**„Designing novel materials for nanodevices: From  
Theory to Practice”** - 3rd Annual Scientific Meeting 2012,  
Berlin, Germany

# CM1101 - Budget 1Y

| Instrument   | Budget                | Rolling workplan      |                       |                       |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  |                       | Forecasts             | Estimations           | Claims                | Payments              |
| <a href="#">&gt;&gt; Meetings</a>  | EUR 119 231.24        | EUR 143 770.00        | EUR 129 576.40        | EUR 115 633.18        | EUR 95 511.95         |
| <a href="#">&gt;&gt; Training Schools</a>                                | EUR 31 797.15         | EUR 39 796.00         | EUR 31 736.00         | EUR 31 727.15         | EUR 31 727.15         |
| <a href="#">&gt;&gt; Short Term Scientific Missions</a>                  | EUR 31 080.00         | EUR 31 975.00         | EUR 18 520.00         | EUR 14 400.00         | EUR 13 500.00         |
| <a href="#">&gt;&gt; Dissemination</a>                                   | EUR 1 000.00          | EUR 1 000.00          | EUR 0.00              | EUR 0.00              | EUR 0.00              |
| <a href="#">&gt;&gt; Other Expenses Related To Scientific Activities</a> | EUR 1 000.00          | EUR 1 000.00          | EUR 475.35            | EUR 475.35            | EUR 0.00              |
| <b>TOTAL EXPENDITURE</b>   | <b>EUR 184 108.39</b> | <b>EUR 217 541.00</b> | <b>EUR 180 307.75</b> | <b>EUR 162 235.69</b> | <b>EUR 140 739.11</b> |

## STSMs still to account for:

- LOC Barcelona meeting 1800 EUR;
- STSMs 4300 EUR;
- Banking Charges c.a. 200 EUR;
- Malta meeting c.a. 22 000 EUR;
- Delft meeting c.a. 7 000 EUR;
- TOTAL c.a. 177 000 EUR**

## Reporting for the 1Y

Financial Report – e – COST System

Monitoring Report – input from all Action members via. WG  
leaders

[monitoring\\_progress\\_report\\_template.doc\(1\).doc](#)



# Planning for the 2Y

Grant period 01.03.2013 – 28.02.2014

## Summary Budget

| Instrument  | Quant.  | Budget                                     |
|---|---------|--|
| Meetings  | 4       | 108 850.00 EUR                             |
| Training Schools  | 3       | 54 250.00 EUR                              |
| STSMs   | 15      | 22 500.00 EUR                              |
| Dissemination   | 1       | 500.00 EUR                                 |
| Other Expenses Related to Scientific Activities                     | 1       | 1 000.00 EUR                               |
|   |         | <b>SCIENCE EXPENDITURE: 187 100.00 EUR</b> |
| Financial and Scientific Administration and Coordination (MAX. 15%) | 12.24 % | 22 900.00 EUR                              |
|   |         | <b>TOTAL EXPENDITURE: 210 000.00 EUR</b>   |

# Meetings

## Meeting 1

|                                  |                         |
|----------------------------------|-------------------------|
| <b>Type :</b>                    | Working Group Meeting   |
| <b>Title :</b>                   | WG 2 & 5 meeting        |
| <b>Location :</b>                | Nicosia (Cyprus)        |
| <b>Date :</b>                    | 03/04/2013 - 04/04/2013 |
| <b>Total Participants :</b>      | 15                      |
| <b>Total Reimbursed :</b>        | 15                      |
| <b>Travel Costs :</b>            | 12 750.00 EUR           |
| <b>Local Organiser Support :</b> | 1 200.00 EUR            |

# Meetings

## Meeting 2

|                                  |                         |
|----------------------------------|-------------------------|
| <b>Type :</b>                    | Working Group Meeting   |
| <b>Title :</b>                   | WG 2+3+4 meeting        |
| <b>Location :</b>                | Szeged (Hungary)        |
| <b>Date :</b>                    | 27/05/2013 - 28/05/2013 |
| <b>Total Participants :</b>      | 25                      |
| <b>Total Reimbursed :</b>        | 25                      |
| <b>Travel Costs :</b>            | 15 000.00 EUR           |
| <b>Local Organiser Support :</b> | 3 000.00 EUR            |

# Meetings

## Meeting 3

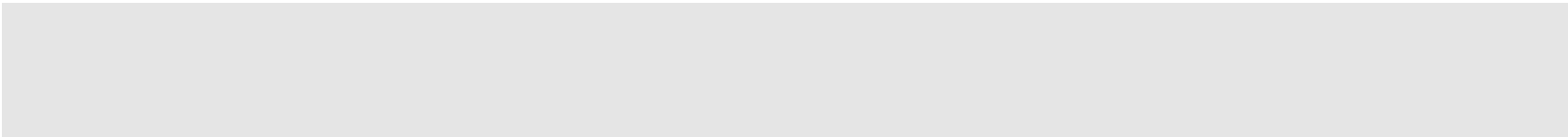
|                                  |                         |
|----------------------------------|-------------------------|
| <b>Type :</b>                    | Working Group Meeting   |
| <b>Title :</b>                   | WG 1+3+6 meeting        |
| <b>Location :</b>                | Genoa                   |
| <b>Date :</b>                    | ??/??/2013 - ??/??/2013 |
| <b>Total Participants :</b>      | 20                      |
| <b>Total Reimbursed :</b>        | 20                      |
| <b>Travel Costs :</b>            | 12 000.00 EUR           |
| <b>Local Organiser Support :</b> | 1 800.00 EUR            |

# Annual Meeting

## Meeting 4

|                                  |  |
|----------------------------------|--|
| <b>Type :</b>                    | Management Committee Meeting,<br>Workshops/Conferences |
| <b>Title :</b>                   | MC and annual conference with ECIS                     |
| <b>Location :</b>                | Sofia (Bulgaria)                                       |
| <b>Date :</b>                    | 03/09/2013 - 05/09/2013                                |
| <b>Total Participants :</b>      | 120  |
| <b>Total Reimbursed :</b>        | 65   |
| <b>Travel Costs :</b>            | 59 500.00 EUR  |
| <b>Local Organiser Support :</b> | 3 600.00 EUR   |

# STSMs



|                         |               |
|-------------------------|---------------|
| Number of STSMs:        | 15            |
| Amount per STSM:        | 1 500.00 EUR  |
| Total budget for STSMs: | 22 500.00 EUR |

**3 STSMs have already been approved**

# Training schools

## Training School 1

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b>Title :</b>                   | <i>Surface Analytical Techniques</i> |
| <b>Location :</b>                | <i>Geneva (Switzerland)</i>          |
| <b>Date :</b>                    | 02/04/2013 - 05/04/2013              |
| <b>Nb Trainees :</b>             | 20                                   |
| <b>Nb Trainers :</b>             | 8                                    |
| <b>Travel Costs Trainees :</b>   | 12 000.00 EUR                        |
| <b>Travel Costs Trainers :</b>   | 7 850.00 EUR                         |
| <b>Local Organiser Support :</b> | 3000..00 EUR                         |

COST support already distributed !

# Training schools

## Training School 2

|                                  |  |
|----------------------------------|--|
| <b>Title :</b>                   | 14th European Student Colloid Conference and Training School |
| <b>Location :</b>                | Potsdam (Germany)  |
| <b>Date :</b>                    | 10/06/2013 - 13/06/2013                                      |
| <b>Nb Trainees :</b>             | 30   |
| <b>Nb Trainers :</b>             | 3  |
| <b>Travel Costs Trainees :</b>   | 12 000.00 EUR  |
| <b>Travel Costs Trainers :</b>   | 3 000.00 EUR   |
| <b>Local Organiser Support :</b> | 2 400.00 EUR   |



# Training schools

## Training School 3

|                                  |   |
|----------------------------------|---|
| <b>Title :</b>                   | ECIS and COST CM1101 Training School on Colloids and Medical Applications |
| <b>Location :</b>                | Sofia (Bulgaria)  |
| <b>Date :</b>                    | 30/08/2013 - 01/09/2013   |
| <b>Nb Trainees :</b>             | 20  |
| <b>Nb Trainers :</b>             | 7   |
| <b>Travel Costs Trainees :</b>   | 9 000.00 EUR  |
| <b>Travel Costs Trainers :</b>   | 4 700.00 EUR  |
| <b>Local Organiser Support :</b> | 1 500.00 EUR  |

## Dissemination & Other

### Item 1

**Title :** Action Website

**Publisher :** University of Malta

**Expected Release Date :** 31/01/2014 (update)

**Amount :** 500.00 EUR

Action logo contest ?

COST info-Day - Wrocław, March 2013

### Expense 1

**Title :** Bank charges

**Amount :** 1 000.00 EUR

Thank you for your participation and attention !