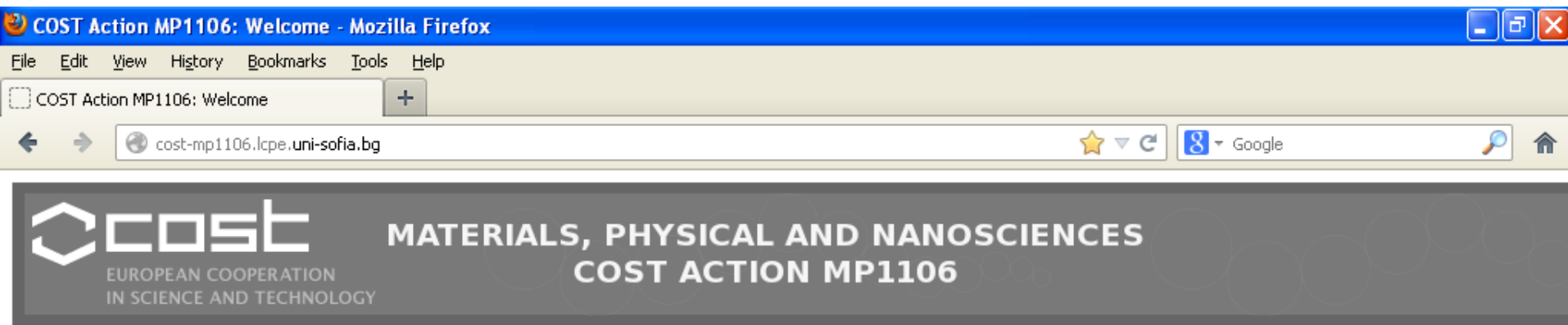


# MP1106 website: <http://cost-mp1106.lcpe.uni-sofia.bg/>



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## **MPNS Action MP1106: Smart and green interfaces - from single bubbles and drops to industrial, environmental and biomedical applications**

Bubbles and drops are entities of enormous practical interest since their interfaces are met in numerous industrial processes and applications of every day life. In order to enhance efficiency, the creation of revolutionary Smart interfaces is demanded: interfaces that are easily manipulated with well-controlled size and properties. The acute modern environmental problems require attributing eco-friendly features to Smart interfaces by incorporating innovative materials or processes. The outcome is Smart and Green (S&G) interfaces. The objective of this Action is to organize a network of groups from academia and industry in order to identify best strategies and means to produce S&G interfaces. Furthermore, state-of-the-art experimental, theoretical and numerical work will be combined to acquire insight into the underlying phenomena through the scales and across the disciplines for the implementation of S&G interfaces in industrial, environmental and biomedical applications. The Action's main deliverables are the networking between groups working on different aspects of S&G interfaces through organization of scientific events, training schools and STSMs, and the industrial interface to market new technologies. The professional perspectives of ESRs will be boosted through an extensive mobility program. The Action's main benefit is the endorsement of the European scientific and industrial leadership in this field.



[Presentation of the Project by Prof. T. Karapantsios – Chair of Action MP1106](#)

**Domain: [Materials, Physics and Nanosciences \(MPNS\)](#)**

# MC



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# Participants

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	Prof. Gunter BRENN
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# WGs



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### WG1

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3	Dusko CAKARA	University of Rijeka	HR
4	Sergei TISLER	Tallinn University of Technology	EE
5	Medhat HUSSAINOV	Tallinn University of Technology	EE
6	Tatiana GAMBARYAN-ROISMAN	Technische Universitt Darmstadt	DE
7	Yoav TSORI	Ben-Gurion University of the Negev	IL
8	Kazimierz MALYSA	Institute of Catalysis and Surface Chemistry, Cracow	PL
9	Joao Bernardo CAMPOS	Universidade do Porto	PT

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2012

[1st Annual Workshop Meeting \(13-14.09.2012, Dublin, Ireland\)](#)

[Kick Off Meeting \(11.05.2012, Brussels, Belgium\)](#)

[Core Group Meeting \(10.07.2012, Lisbon, Portugal\)](#)

2013

[Workshop "Smart and Green Interfaces 2013 \(Prague\)" \(21-22.03.2013, Prague, Czech Republic\)](#)

["A way to Smart Europe" – COST MP1106 "Smart & Green Interfaces" Training School 23 – 25 April 2013 in Twente](#)

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# "Smart and Green Interfaces 2013 (Prague)"

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» Events / 2013

## Workshop "Smart and Green Interfaces 2013 (Prague)" (21-22.03.2013, Prague, Czech Republic)

The workshop Smart and Green Interfaces 2013 (Prague) will take place on 21-22 March 2013 in the building of the Academy of Sciences of the Czech Republic, Národní třída 3, Prague.

- » How to register
- » Deadlines and financial limits
- » **Preliminary program of the Workshop**
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**Preliminary program of the Workshop »**

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# Jobs



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### • Jobs

**1. A position (not permanent) of project coordinator** is open at European Space Agency (ESA) about foams, emulsion, granular matter , colloids...

For details, please see the link below:

[http://www.space-careers.com/jobsearch/view\\_13490.html](http://www.space-careers.com/jobsearch/view_13490.html)

For more information, please contact Olivier Minster: [olivier.minster@esa.int](mailto:olivier.minster@esa.int)

**2. Postdoctoral position in the area of experimental Soft Condensed Matter (for one year)** at the Laboratoire de Physique des Solides, Université Paris Sud, France.

We are looking for a highly motivated candidate to work on systems of colloidal particles (nano- and micrometric) confined in foams and emulsions using scattering techniques (diffusing wave spectroscopy in particular). The candidate should have an enthusiasm for top-quality collaborative research to be carried out in an active research group and within a European Network.

The prerequisite is a PhD in physics/chemistry/engineering. Experience in scattering techniques is an advantage, but not a prerequisite. The starting date is no later than 1.9.2013, but an earlier date is preferable.

Interested candidates should email their CV with the names of two professional references to Anniina Salonen <[anniina.salonen@u-psud.fr](mailto:anniina.salonen@u-psud.fr)> or to Dominique Langevin <[dominique.langevin@u-psud.fr](mailto:dominique.langevin@u-psud.fr)>.

For further information on the research group and its activities go to <http://chercheurs.lps.u-psud.fr/Sil/spip.php?article47>.

**All offers / positions should be sent to: [ND@Lcpe.Uni-Sofia.bg](mailto:ND@Lcpe.Uni-Sofia.bg)**

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# Publications (27 till March 17<sup>th</sup>)



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Catechol-Based Biomimetic Functional Materials. J. Sedó, J. Saiz-Poseu, F. Busqué, D. Ruiz-Molina. *Adv Mat* **25** (2012) 653-701.

Characterization of LiFePO<sub>4</sub>/C Composite Thin Films Using Electrochemical Impedance Spectroscopy. Bajars G., Kucinskis G., Smits J., Kleperis J. & Lulis A. *IOP Conf. Ser.: Mater. Sci. Eng.* **38** 012019 (2012).

Study the effects of moisture content on the electrical properties of technical textiles by impedance spectroscopy. Lulis A., Pentjuss E., Bajars G., Gabrusenoks J., Janeliukštis R. & Zandersons J. *IOP Conf. Ser.: Mater. Sci. Eng.* **38** 012020 (2012).

Electrochemical impedance and moisture content of glass fabric. Pentjuss E., Lulis A., Bajars G., Gabrusenoks J. & Jekabsone L. *IOP Conf. Ser.: Mater. Sci. Eng.* **38** 012021 (2012) doi:10.1088/1757-899X/38/1/012021.

Preparation and photoactivity of electrophoretic TiO<sub>2</sub> coating film. Liepina I., Bajars G., Gabrusenoks J., Grinberga L., Kleperis J. & Lulis A. *IOP Conf. Ser.: Mater. Sci. Eng.* **38** 012059 (2012).

Water electrolysis with DC pulses and plasma discharge. Vanags M., Aizpurietis P., Bajars G., Kleperis J. & Klavins J. *International Scientific Journal for Alternative Energy and Ecology (Russia)*, **9** 113 (2012), 21-27.

Electrochemical properties of LiFePO<sub>4</sub> thin films prepared by RF magnetron sputtering. Kucinskis G., Bajars G. & Kleperis J. *International Scientific Journal for Alternative Energy and Ecology (Russia)*, **9** 113 (2012), 72-77.

Water electrolysis with inductive voltage pulses. Vanags M., Kleperis J. & Bajars G. Chapter 2 in book: *Electrolysis* (eds. J.Kleperis, V.Linkov), ISBN 978-953-51-0793-4, 26 p.

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# Core group & Contacts



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# Possible further dissemination activities

- **Publication on the website of:**
  - **Reports**
  - **Books of abstracts from the workshops/meetings**
  - **...**
- **Sending / exchanging information to / with other COST Actions, e.g. CM1101**
- **...**