



# SELF-ORGANIZED NANOSTRUCTURES (SONS II) FINAL CONFERENCE

19-22 October 2009 • Prague • Czech Republic



#### Scope of the meeting

Technological advances in many scientific areas lead to investigation, understanding and exploiting of structures of continually smaller dimensions. The purpose of this networking activity is to gather people active in SONS 2 projects in the field of both soft matter and hard matter research, and to set a frame for presenting results obtained within these projects, share general ideas on self-organization of matter and promote the cooperation of various scientists taking part in these activities.

In the field of soft matter the meeting will thus offer a forum for people active in complementary areas of polymer, biopolymer, colloidal and liquid crystal research.

In terms of the surface-confined organisation of molecules the meeting aims to report on cutting-edge experimental and theoretical activities to promote the understanding of the self-organisation, interaction and steering of nanoscaled (supra)molecular systems (e.g. molecules, metal centers, nanoparticles) at surfaces.

A common aspect of all these efforts is self-organization that the individual researchers and working groups exploit in order to reach a particular technical application or to acquire understanding of the underlying physical and physico-chemical principles that are always required to lay solid grounds for a particular practical application. The aim of the proposed workshop is a comprehensive interdisciplinary review of the current status of the subject and discussion of the most challenging problems and links between fundamental research and the nano-technological applications.

#### Practical arrangements

The conference is planned to start on Monday October 19 at 14.00 and to end on Wednesday October 21 at 18.00.

The ESF sponsorship of this event will make it possible to cover travel and local expenses of 2 participants from each research group participating to the projects of the programme SONS 2. The ESF support is calculated based on accommodation for 3 nights, meals for 3 days and with an estimated average cost of air tickets within Europe. More participants from each group are welcome as well as participants from SONS 1 projects. These additional participants will have to cover their expenses. There is **no registration fee** for this workshop. The maximum attendance is limited by the capacity of the lecture hall at IMC to **120 participants**.

The program of the meeting is being prepared so as to have on average 2 oral presentations from each group participating to the SONS 2 projects. In addition there will be one poster session.

#### Invited External Speakers

- **Rasmita Raval** - University of Liverpool (UK)  
*Molecular and supramolecular organization at metal surfaces: complexity, chirality and challenges*
- **Ian Manners** - University of Bristol (UK)  
*Living crystallization-driven polymerizations*
- **Julius Vancso** - University of Twente (NL)  
*Nanostructured, self-organized, stimulus-responsive polymers for release of molecular payloads*
- **Walter Richtering** - Aachen University (DE)  
*Nanostructured microgels: interactions in bulk and at interfaces*
- **Tadahiro Komeda** - Tohoku University (JP)  
*Spin behavior of ordered film of single-molecule-magnet lanthanoid-phthalocyanine molecules studied with cryogenic scanning tunneling microscope*

#### Organizing Committee

- **Petr Stepanek** - Institute of Macromolecular Chemistry, Prague (CZ)
- **Wolfgang Meier** - University of Basel (CH)
- **Mario Ruben** - Research Centre Karlsruhe (DE)
- **Ana Helman** - European Science Foundation, Strasbourg (FR)

Application & Programme: <http://www.imc.cas.cz/sympo/sons2009/>

Closing Date for Applications: **31 July 2009**

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