

EUROCORES-SONS Workshop

# Polymers, Amphiphiles and Nanostructured Materials

Coombe Lodge • Bath/Bristol • UK  
12 - 15 June 2007

This cross-disciplinary workshop on *Polymers, Amphiphiles and Nanostructured Materials* will cover areas from polymer synthesis, analyses techniques, assembly of nanostructures, all the way through to the use of such structure for templating purposes and preparation of devices with functional polymer-based materials. This will be the first time that SPENSA, SISAM and NETSOMA will be able to interact on a workshop level with the three well-connected CRPs SONS-AMPHI, NEDSPE and AMPHI.

The aim of the workshop can therefore be summarised as follows: to provide the participants with a broad (interdisciplinary) overview of the existing scientific state of the art for the formation of nanostructured materials based on polymers, amphiphiles, and combinations of polymers and amphiphiles. Underlying and supporting these concepts are the issues of synthesis of new starting materials both for use as templates and to be templated, the production of hierarchical structures, use and application of appropriate analyses techniques, strategies to control the morphology of produced nanostructures including external stimuli to modify temporarily or permanently the structure and properties of self-organising materials and exploiting the interplay of intra- and inter-molecular hydrophobic/hydrophilic balance, electrostatic interaction and topology to control the structure and morphology of nanostructured assemblies, strategies for templating and use of produced nanostructures as templates, processing and functionality.

Further issues to be discussed will include: new synthetic challenges for both polymeric materials and small molecule amphiphiles, especially seen in the light of inclusion of functionality and switchability into nanostructured materials; the interface with biological sciences and bionanotechnology; encapsulation and release and responsive nanomaterials produced through self-assembly.



**Chair:** Charl Faul, University of Bristol, UK  
**Scientific Organizing Committee:** Charl Faul, University of Bristol, UK; Karen Edler, University of Bath, UK

#### Invited Speakers will include:

Ian Manners, University of Bristol, UK  
Doug Gin, University of Colorado, USA  
Tony Ryan, University of Sheffield, UK  
Julian Eastoe, University of Bristol, UK

**Application Form & Programme** available from

[www.esf.org/sons](http://www.esf.org/sons) and  
[www.chem.bris.ac.uk/inorg/isa/PANM\\_index.html](http://www.chem.bris.ac.uk/inorg/isa/PANM_index.html)

**Closing Date for Application 16 April 2007**

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