



2nd WORKSHOP on Interfacial Phenomena in Complex Fluids Complex Liquids at Structured Surfaces: Theory meets Experiment

CFTC | University of Lisbon | Portugal
10-12 October 2012

Invited Speakers:

- D. Aarts (Oxford, UK) "Confined colloids: rods and spheres"
 M. Brinkmann (MPI Göttingen, Germany) "Wetting of regularly structured substrates"
 C. Cottin-Bizonne (Lyon, France) "Slippage of simple liquids past super-hydrophobic surfaces"
 D. de las Heras (Bayreuth, Germany) "Bicontinuous and mixed gels in binary mixtures of patchy colloids"
 F. Martinez-Veracoechea (Cambridge, UK) "Targeting and self-assembly using super-selective nanoparticles"
 A. Parry (Imperial College London, UK) "Capillary condensation revisited: two Kelvin equations"
 M. Popescu (The Wark, Australia) "Buoyancy-driven small drops or air bubbles colliding with fluid-fluid interfaces"
 P. Poulin (CRPP Pessac, France) "Self-assembly of carbon nanotubes for thin conductive films"
 V. Reshetnyak (Kyiv, Ukraine) "Frederiks transition in a ferroic liquid crystal suspension"
 J. M. Romero Enrique (Sevilla, Spain) "Theoretical characterization of the surface free energy of a nematic in contact with microstructured substrates"
 F. Sciortino (Roma, Italy) "Colloidal self-assembly of triblock Janus particles and other patchy colloids"
 J. Yeomans (Oxford, UK) "Active fluids at surfaces"

Local Organizing Committee:

Nelson Bernardino
 Pedro Patrício
 Nuno Silvestre
 José Maria Tavares
 Paulo Teixeira (chair)
 Margarida Telo da Gama

Purpose:

The workshop provides an informal venue for theorists and experimentalists to present their latest results on the behaviour of complex fluids at structured surfaces with an emphasis on:

- Superhydrophobic surfaces and flows
- Patterned surfaces and complex liquids
- Colloidal self-assembly at interfaces

It will be preceded (8-9 October) by mini-courses on:

- Introduction to computer simulations
- Introduction to finite-element methods
- Fundamentals of computational fluid dynamics

The workshop is part of the collaborative research programme "Complex Liquids At Structured Surfaces" involving teams at BNL, CFTC Lisbon and MPI Stuttgart. It is sponsored by the European Commission under the Marie Curie FP7-People program grant number PIRSES-GA-2010-269181-CLASS.

Scientific Coordinators:

Antonio Checco (Brookhaven National Laboratory)
 Mykola Tasinkevych (Max-Planck-Institute for Intelligent Systems, Stuttgart)
 Paulo Teixeira (CFTC-UL)

Location:

Instituto para a Investigação Interdisciplinar da UNIVERSIDADE DE LISBOA, Avenida Professor Gama Pinto, 2, 1649-003 Lisboa, Portugal

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