

# Soft-Inter 2014: Soft Interactions in Biological and Biominetic self-assemblies

Saint Malo (France), September 7<sup>th</sup>-13<sup>th</sup>, 2014



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Conferences in Palais du Grand large  
Social Day in Mont Saint Michel

- Limited number of people
- Selection on motivation letter
- Open to PhD students, Post-docs, permanent scientists in physics, chemistry & biology

## Program and lecturer

- Marie France Carlier (CNRS, Gif-sur-Yvette, France)
- Wais Hosseini (Strasbourg University, France)
- Roland Netz (Max Plank Munick, Germany)
- Pascal Auffinger (CNRS, Strasbourg, France)
- Félix Rey (Pasteur Institute, Paris, France)
- Richard Lavery (ENS, Lyon, France)
- Gabriel Waksman (University College, London, UK)
- David Eisenberg (UCLA, USA)
- Deck Woolfson (Bristol University, UK)
- Mirjam Czjzek (Station Marine Roscoff, France)
- Jeroen Cornelissen (University Twente, The Netherlands)
- James Sturgis (CNRS, Marseille, France)

- Protein assemblies: actin and tubulin
- Crystallography of small molecules
- Statics and dynamics of charged polymers and non-equilibrium systems
- RNA: assemblies, prediction, modelling and methodology
- Assembly of regular viruses
- Probing bio-molecular interactions with molecular simulations: protein-protein
- Transport through membranes by secretion nano-machines
- Peptide assemblies and cry1stallography
- Peptide alpha helices a tool box for self-assembly
- Marine glycobiology
- Some basic principles driving the formation of nano-sized objects and nano-structured materials that Nature has selected in the course of evolution
- Biological membrane architectures

## Objectives

The main objective of the “Soft-Inter2014” school is to present a state of the art on self-assemblies and of their related concepts together with their characterization in the three disciplines, *i.e.* physics, chemistry and biology, in order to generate debates and communications in between scientific communities. An extremely didactic approach will be requested to the speakers, all of them being scientists involved in cross-disciplinary research of very high level. In addition, each two-hours course will be coupled to a brainstorming workshop hosted by the lecturer and a moderator of another discipline that will help in stimulating discussion. These discussions will compare the different views on the weak interactions, and help to identify purely semantic discrepancies on this adisciplinary concept.

### Deadlines:

pre-inscription and motivation letter: April 30<sup>th</sup>, 2014  
decision of the scientific board May 14<sup>th</sup>, 2014  
definitive inscription and payment June 20<sup>th</sup> 2014

### Want to know more?

Visit our website: [soft-inter2014.sciencesconf.org](http://soft-inter2014.sciencesconf.org)  
Contact: [soft-inter2014@scienceconf.org](mailto:soft-inter2014@scienceconf.org)

Jean-Pierre Aimé Franck Artzner Erick Dufourc Stéphane Bressanelli Céline Lentz Maité Paternostre Anne-Sophie Salvetat



Thematic school from CNRS



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