

# Call for paper in EPJE

## Special issue on "Biological physics near surfaces/interfaces"

James Forrest (Editor) and Giovanna Fragneto (Guest Editor)

The understanding of the complexity of living systems is one of the key challenges of physics in our century. Biological systems provide an inspiration for research in soft matter physics and represent one of the ultimate goals in nanotechnology. Surfaces and interfaces are ubiquitous in everyday life. In particular, cell membranes are surfaces that support a significant fraction of biological interactions. In addition the well established and yet still growing area of biomaterials examines how biological systems interact with surfaces that are not part of the original body. From the molecular level to whole cells, the presence of a surface or interface can represent a significant perturbation, and can have a profound effect on the structure and function of biological entities. For these reasons, research on the structure and dynamics of biomolecules at surfaces and interfaces has boosted in recent years. Such work involves efforts from a variety of disciplines including physics. As a reflection of the growing importance of this area, and especially the application of physical techniques (both experimental and theoretical) The European Physical Journal E - Soft Matter is initiating a special issue on the topic of Biological Physics at Surfaces and Interfaces.

Areas of interest include (but are not limited to)

Protein adsorption to surfaces (Biomaterials)

Effect of surfaces on structure/function

Protein-nanoparticle interactions

Cell adhesion/friction

Lipid-protein interaction

Papers to be considered for this special issue should be submitted **by December 1st, 2008**, to the Editorial Office of the European Physical Journal E via

<https://articlestatus.edpsciences.org/is/epje/> (Editorial Office of The European Physical Journal E, Véronique Condé, e-mail: [epje@edpsciences.org](mailto:epje@edpsciences.org)) and marked clearly for the topical issue on Biological physics near surfaces/interfaces to the attention of either James Forrest (Editor) or Giovanna Fragneto (Guest Editor).

We look forward to receiving your submission

Best regards,

James Forrest and Giovanna Fragneto

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