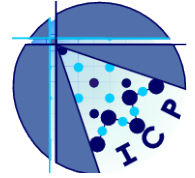


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## **FINAL REPORT**

### **Novel Simulation Approaches to Soft Matter Systems**

International Workshop - September 20 - 24, 2010

Max-Planck-Institut für Physik Komplexer Systeme

Scientific Coordinators: Juan José Cerdà, Christian Holm, Kurt Kremer

Dear Director of the Visitors Program,

We would like to thank the MPI-PKS for giving us the possibility of organizing the NSASM workshop in September 2010 by providing the funding and a really professional organization and logistics for the event.

In our opinion the workshop managed to fulfill all the objectives we have proposed:

(a) International speakers of renowned prestige have shared their knowledge and experience on different topics in the area of simulation in Soft-Matter: adaptive resolution schemes, multi-scaling approaches, coarse graining strategies for various soft matter systems, various techniques for mesoscale hydrodynamics, rare events, new sampling schemes, inverse Monte Carlo problems, among others, with a broad world-wide audience that includes graduated Ph.D. students, postdocs and professors.

This meeting has definitely strengthened the ties between groups over the world in the common objective of obtaining more efficient algorithms for Soft Matter simulations. At the same time people are now more aware of the advantages and caveats of the different cutting-edge methods.

(b) From a pedagogical point of view, the different round tables with the speakers and the ample time allowed for discussions during the workshop has allowed to the most younger ones to be able to ask and interact with top-experienced researches without been ashamed, getting in this way the maximum benefit of the workshop because they have not just had a passive role but a very active one.

(c) In what refers to helping to the diffusion of the scientific results and discussions done and presented during the workshop, we have organized the following procedures:

c.1 - We have asked the speakers, and poster authors to send us their presented works so they are available at the workshop home-page for everyone interested in the field. Participants have answered very positively to this request, and we have managed to collect a large part of the contributions to the workshop.

c.2 - An special issue (not just a simple proceedings) with the most remarkable works will be soon published in the Macromolecular Theory & Simulations journal (Wiley-VCH).

We hope that these actions will help to spread and strengthen the outcomes of the workshop.

Finally we would like to remark that several participants have communicated their opinion about this event. We were very pleased that all of them found the workshop very useful for them and we have got many requests from the participants to renew in a two or three-year period this sort of workshop.

Once again we would like to thank the MPI-PKS for the superb opportunity that they have provided to the Soft-Matter community enabling us to meet and work together.

Yours sincerely,

Juan J. Cerda, C. Holm, K. Kremer