

Moscow State University, Faculty of Physics

# Theory and Computer Simulation of Polymers: New Developments

International Workshop

*June 1-6, 2010, Moscow, Russia*

## First Announcement

### 1 Motivation and objectives

This workshop takes place within the framework of a long-standing collaboration between the groups of Prof. A. Khokhlov at the Faculty of Physics of Moscow State University and Prof. K. Binder at the Institute of Physics of Johannes-Gutenberg-University of Mainz which is supported by DFG and RFBR grants (at the present time it is the joint project DFG 436 RUS 113/791 and RFBR 09-03-91339-NNIO, and this meeting is a planned activity within this joint project).

The main goal of the meeting is the discussion of the current stage of this project which is dedicated to computer simulations of stiff-chain macromolecules and other liquid-crystalline systems at adsorbing surfaces and in confinements. However, this does not restrict the topics to be discussed during the workshop. The meeting will also offer a unique opportunity for the discussion of related research on macromolecular systems, like, for example, the properties of copolymer systems. It is also our aim that this conference provides a broad exchange of ideas and experience between scientists from different countries working in the field of theory and computer simulation of macromolecular systems. This meeting should be also beneficial from the educational viewpoint for the students and PhD students working in the area of polymers. The participation in the conference is not restricted to the members of the above mentioned research groups.

This workshop is already the third one initiated by the collaboration of groups in Mainz and Moscow. Two previous workshops took place in 2002 and 2006 - "Computer Simulations of Macromolecular Systems: Dense States of Semiflexible Macromolecules and Copolymers" (May 21-26, 2002, Moscow, Russia) and "Statistical Mechanics of Polymers: New Developments" (June 6-11, 2006, Moscow, Russia).

### 2 Organization

#### 2.1 Organizers

- Faculty of Physics, Moscow State University (Moscow, Russia)
- Institute of Physics, Johannes Gutenberg-University (Mainz, Germany)

## 2.2 Organizing Committee

Alexei Khokhlov (Chairman), Kurt Binder (Co-Chairman), Victor Ivanov, Friederike Schmid, Wolfgang Paul, Julia Martemyanova (Scientific Secretary)

## 2.3 Language

English is the official language of the meeting.

## 2.4 Location and accommodation

The oral presentations of the meeting will be held in the conference hall at the Physics Department of Moscow State University. Posters will be placed in the corridor in front of this room.

The hotel in the main building of Moscow State University is planned for the accommodation of participants (or one of the hotels in the vicinity of MSU).

## 2.5 Schedule

The arrival of participants is planned for June 1, and the lectures will start on June 2 in the morning, and will end on June 5 at lunchtime.

The oral presentations are planned for 40 minutes (30 min. talk + 10 min. for questions and discussion) to provide a workshop atmosphere with sufficient time for a detailed discussion of the contributions. There are also shorter oral presentations planned for 30 min. each (20 min. talk + 10 min. discussion). The poster session is planned for the presentations of the results of PhD students and students.

## 2.6 Budget

To cover the administrative expenses (coffee breaks, consumables) a conference fee of EUR 100,- per person will be charged (reduced fee is possible for participants from Russia). Additionally, the flat sum of EUR 50,- per person will be charged for lunches.

The workshop is financially supported by:

- *Deutsche Forschungsgemeinschaft* within the project "Computer Simulation of Adsorption of Semiflexible Polymers" DFG 436 RUS 113/791 (travel expenses and accommodation of project participants, conference fee, lunches);
- *Russian Foundation for Basic Research* (travel expenses and accommodation of Russian participants from outside Moscow, conference fee, lunches; if we will succeed to get additional support from RFBR for organizing international workshops, which we will apply for, also travel expenses of more participants from abroad can be covered).