

Announcement

5th IPF Colloquium of the Institute of Polymer Research Dresden

'Theory and Experiment'

Dresden, November 14 and 15, 2002

The connection of theory and experiment is a topic of central importance in the application-oriented polymer research performed at the IPF. Knowledge of fundamental aspects including theoretical findings on polymer materials allows to derive novel application relevant material properties which should then be confirmed by appropriate experimental studies.

The meeting is intended to show the mutually beneficial interaction of the two aspects. For example, the end-use properties of polymer materials are often decisively influenced by wetting and adhesion phenomena. Their fundamental correlations on molecular level are not sufficiently understood yet, and, consequently, specific design of properties is almost not possible, especially for complex systems.

Better understanding can only be achieved by a comparison of theoretical concepts with results of systematic experimental investigations of relevant factors of influence. The term 'theory' is considered quite comprehensive in this context and shall include both analytical-theoretical aspects, the theoretical interpretation of experiments and modelling and computer-aided simulation at different scales. In the latter field much progress has been achieved during the last few years due to the enormous development of computer capacities and numerical methods.

The meeting shall be dedicated to three main areas, in which the connections between theory and experiment shall be highlighted:

- Polymer mechanics, rheology and adhesion
- Blends and copolymers
- Surfaces and interfaces of polymers

Speakers are:

V. Abetz, Bayreuth
F. Brochard-Wyart, Paris, France
L. Colombi Ciacchi, Dresden
P. Friedel, Dresden
E. Hädicke, Ludwigshafen
A. R. Khokhlov, Moscow, Russia
J. Koberstein, New York, USA
S. Minko, Dresden
P. Müller-Buschbaum, München
T. Pakula, Mainz
A. Seiffert, Marburg

K. Binder, Mainz
H. Brüning, Dresden
C. Creton, Paris, France
K. Grundke, Dresden
G. Heinrich, Hannover
A. J. Kinloch, London, UK
B. Lauke, Dresden
M. Müller, Mainz
A.W. Neumann, Toronto, Canada
C. Rauwolf, Dresden

Poster contributions

Posters can be submitted by October 10, 2002. Please send a one page camera-ready abstract; details on the format of abstracts and on the size of poster boards can be found on the website or in the circular that we would send you upon request.

Registration

Registration fees are EUR 150 for participants from industry and EUR 75 for those from universities and research institutes. Registrations should reach us by October 10, 2002. Any details and the respective forms are available on the website or in the circular that we would send you upon request.

Contact

www.ipfdd.de/lectures/theo_ex.html

Scientific Affairs

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Organization

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