

UPDATED PROGRAM

October 1, Monday

Arrival of German participants

19:30 Welcome dinner

October 2, Tuesday

9:00 Registration of participants

9:50 Victor A. Kabanov

Opening remarks

Chairman: Alexander B. Zezin

10:00 K. Lunkwitz, M. Müller, H.-M. Buchhammer, J. Meier-Haack, U. Oertel, G. Petzold, U. Scheler, S. Schwarz (IPF)

Interaction between polyelectrolytes or interpolyelectrolyte complexes and surfaces

10:30 V.A. Kabanov, A.A. Yaroslavov (MSU)

What can happen to biological membranes upon interacting with polycationic constructs?

11:15 Break

Chairman: Werner Jaeger

11:45 M. Stamm (IPF)

Self-assembly and structures of copolymers in thin polymer films

12:30 U. Scheler (IPF)

Effective charge and size of polyelectrolytes determined by electrophoresis and diffusion NMR

13:00 Lunch

Chairman: Vladimir A. Izumrudov

14:00 V.B. Rogacheva (MSU)

Complexes of dendritic polyampholytes with linear polyions

14:30 M. Müller, T. Reihs, K. Lunkwitz (IPF)

Sorption properties and induced anisotropy of polyelectrolyte multilayer assemblies

15:00 H.-M. Buchhammer, F. Simon, K. Lunkwitz (IPF)

Silica-nanoparticles with superhydrophobic surfaces resulting from self-assembly of perfluorodecanoic acid with water-soluble polymers

16:15 Sight-seeing tour

October 3, Wednesday

Chairman: Klaus Lunkwitz

10:00 W. Jaeger, J. Bohrisch, T. Schimmel, O.

Grosche, A. Lieske (Fraunhofer-Institut für Angewandte Polymerforschung)

Amphiphilic ionically charged block copolymers: synthesis, properties, application

10:45 A.R. Khokhlov (MSU)

Modification of polymer surfaces in supercritical carbon dioxide

11:30 Break

Chairman: Alexei R. Khokhlov

12:00 I.I. Potemkin, A.R. Khokhlov, S.S. Sheiko*,

M. Möller** (MSU, *University of North Carolina at Chapel Hill, **Universität Ulm)

Conformations of comblike brushes adsorbed on a plane surface

12:30 V.A. Kasaikin, E.A. Litmanovich, A.P. Or-

lenina (MSU)

The influence of concentration regime of polycation solution on the structure of polyelectrolyte/surfactant complexes

13:00 Lunch

Chairman: Herbert Dautzenberg

14:00 J. Meier-Haack (IPF)

Design of membrane properties by modification with polyelectrolytes and polyelectrolyte multilayer systems

14:30 V.A. Izumrudov (MSU)

Studying of DNA-containing polyelectrolyte complexes by fluorescence quenching technique

15:00 L.Z. Rogovina*, V.G. Vasiliev*, Yu.D.

Zaroslov, V.A. Smirnov, Yu.A. Shashkina, N.A. Churochkina*, T.A. Priakhina*, O.E.

Philippova, A.R. Khokhlov (MSU,

*Nesmeyanov Institute of Organoelement

Compounds of Russian Academy of Sciences)

Physical gel formation in solutions of hydrophobically modified polyelectrolytes

15:30 Break

16:00 Visit to laboratories

October 4, Thursday

Chairman: Victor Kabanov

10:00 H. Dautzenberg, A. Zintchenko (Max-Planck-

Institute of Colloids and Interfaces)

Polyelectrolyte complex particles - potential carrier systems for drugs and enzymes

10:45 A.B. Zezin (MSU)

Interpolymeric interactions in triple systems cross-linked polyelectrolyte, linear polyelectrolyte and surfactant

11:30 Break

Chairman: Manfred Stamm

12:00 S. Schwarz, J. Nagel, A. Janke, K.-J. Eichhorn, W. Jaeger* (IPF, * Fraunhofer-Institut für Angewandte Polymerforschung)

Electrostatic self-assembled nanoarchitectures with polyelectrolytes of different molar mass

12:30 V.G. Sergeev (MSU)

DNA complexed with oppositely charged amphiphiles in low polar organic media

13:00 Lunch

Chairman: Vladimir G. Sergeev

14:00 S. Spange**, I. Voigt*·***, D. Pleul*, M. Eschner***, F. Simon* (*IPF, **Chemnitz University of Technology, ***Infineon Technologies AG)

Fabrication and characterization of advanced hybrid materials made from inorganic oxides and poly(vinyl formamide-co-vinyl amine)

14:30 G. Petzold, U. Geißler, M. Mende, H.-M.

Buchhammer (IPF)

Higher efficiency in particle flocculation by using combinations of oppositely charged polyelectrolytes

15:00 D.V. Pergushov, U. Oertel*, B. Pilch*, S.

Schwarz*, J. Nagel* (MSU, *IPF)

Interaction of polyelectrolytes with Langmuir-Blodgett films built up from amphiphilic polymers

15:30 Break

16:00 Poster session / Discussions in groups

October 5, Friday

9:00 Excursion in Kremlin

18:00 Conference dinner

October 6, Saturday

Departure of German participants

This Russian-German conference on *Self-Assembly Processes in Complex Macromolecular Systems in Solutions and at Interfaces* has been initiated by Prof. Dr. Victor A. Kabanov (Moscow State University), Prof. Dr. Alexander B. Zezin (Moscow State University), and Prof. Dr. Klaus Lunkwitz (Institut für Polymerforschung Dresden e.V.) with an intention to bring together Russian and German scientists studying self-assembly phenomena in polymer systems in solutions and at interfaces. The meeting is expected to provide opportunities for detailed discussions of results and approaches developed by the research groups of both countries as well as to promote a bilateral scientific cooperation.

The participation in the conference is restricted to the members of the involved research groups and is free of charge.

The conference is financially supported by Russian Foundation for Basic Research (project number 01-03-0400).

Organizers

School of Chemistry, Moscow State University
Institut für Polymerforschung Dresden e.V.

Language

English is the official language of the conference.

Registration

The registration will take place in the auditorium 501 of the Building "A" of Moscow State University from 9:00 till 9:50 on October 2 (Tuesday).

Location

The conference presentations will be held in the auditorium 501 of the Building "A" of Moscow State University.

Presentations

The conference consists of:

- **6 long oral presentations** (total time for each long presentation is 45 min including 35 min for a presentation and 10 min for a discussion),
- **15 short oral presentations** (total time for each long presentation is 30 min including 20 min for a presentation and 10 min for a discussion),
- **poster session** (the format for posters is 1 m × 1 m).

Scientific Committee

Prof. Dr. Victor A. Kabanov (Moscow State University)

Prof. Dr. Klaus Lunkwitz (Institut für Polymerforschung Dresden e.V.)

Organizing Committee

Chairman: Prof. Dr. Victor A. Kabanov

Co-Chairman: Prof. Dr. Alexander B. Zezin

Secretaries: Dr. Dmitry V. Pergushov

Dr. Martin Müller

Assistant: Natalia A. Ryabtseva

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Moscow State University
School of Chemistry

RUSSIAN - GERMAN CONFERENCE

SELF-ASSEMBLY PROCESSES IN COMPLEX MACROMOLECULAR SYSTEMS IN SOLUTIONS AND AT INTERFACES

October 1 - 6, 2001

Moscow

PROGRAM

Moscow - 2001