

The 10th International Symposium "Molecular Order and Mobility in Polymer Systems", MOMPS-X, will be held by the Institute of Macromolecular Compounds RAS in Saint Petersburg, Russia, on May 18-22, 2020. The opening ceremony on May 18 will take place in the Peter and Paul Fortress (Atrium of the Commandant's House). On May 19-22 the Symposium will take place at the AZIMUT Hotel Saint Petersburg 4* (43 Lermontovsky prospect) located in the city center on the Fontanka River embankment.

Registration and abstract submission

Registration and submission of contributions is available through the Symposium website.

<https://momps2020.macro.ru>

Deadline for abstracts submission is March 31, 2020. Instructions for the abstract preparation can be found on the Symposium website (section "Call for abstracts").

Registration fee

The early registration fee is 450 Euro for regular participants and 180 Euro for students. **Deadline for early registration fee is April 17, 2020.** For the IUPAC affiliate members a 10% reduction of the registration fee is settled as application is made for the sponsorship of the IUPAC. The fee for the accompanying persons is 100 Euro.

Address for correspondence

Dr. Tatiana Filippova, Symposium Coordinator

Institute of Macromolecular Compounds RAS
31 Bolshoy pr., St. Petersburg 199004, RUSSIA
Tel: +7 (812) 3232907
E-mail: tatfil@imc.macro.ru

International Scientific Advisory Board

A.R. Khokhlov, Russia – *Chairman*
K. Binder, Germany
T.M. Birshtein, Russia
P.F. Ganan Rojo, Columbia
J.P. Gong, Japan
F. Kremer, Germany
K. Kremer, Germany
S.V. Lyulin, Russia
T. McLeish, United Kingdom
A.H.E. Müller, Germany
N.E. Nifantiev, Russia
M. Rubinstein, USA
E.T. Samulski, USA
A. Vazquez, Argentina
I. Voets, The Netherlands

Program and Organizing Committee

S.V. Lyulin – *Chairman* director@hq.macro.ru
T.M. Birshtein – *Vice Chairman* birshstein@imc.macro.ru
A.A. Darinskii – *Vice Chairman* a.darinskii@mail.ru
A.V. Yakimansky – *Vice Chairman* yak@hq.macro.ru
O.V. Borisov
A.P. Filippov
V.E. Yudin

Local Organizing Committee

S.V. Larin – *Chairman* selarin@macro.ru
A.A. Polotsky – *Vice-Chairman*
T.V. Filippova – *Coordinator* tatfil@imc.macro.ru
E.M. Ivankova
A.S. Ivanova
A.V. Kashina

I.V. Ivanov

E.B. Tarabukina

Symposium co-organizers

- Institute of Macromolecular Compounds RAS
- Ministry of Science and Higher Education of the Russian Federation
- Department of Chemistry and Material Science RAS
- Scientific Polymer Council RAS
- Saint-Petersburg Scientific Center RAS

Under the sponsorship of IUPAC

10th INTERNATIONAL SYMPOSIUM

Molecular Order and Mobility in Polymer Systems

on the centenary year of the Polymer Science

St. Petersburg, May 18 - 22, 2020

<https://momps2020.macro.ru>



SECOND CIRCULAR

Symposium is promoted through

Professional Congress Organizer:

Monomax Ltd., St. Petersburg, Russia

Mob: +7 960 2793177

Office: +7 (812) 3352055

E-mail: momps2020@onlinereg.ru

Program

The Symposium program will include about 30 plenary and invited lectures (25 min), oral contributed (15 min) communications, and poster sections.

Symposium topics

1. Conformations, dynamics, and self-organization of macromolecules of various architectures
2. Polymer composites, nanocomposites, hybrid and meta-materials
3. Biocompatible, biomimetic, and biohybrid polymer systems
4. Theory, multiscale computer simulations, machine learning and artificial intelligence approach in polymer science
5. Advances in synthesis of functional and smart polymers

Social Program

Various social events are planned for scientists and accompanying persons, as sightseeing tours of the city and its suburbs, the excursion to the world-known Hermitage museum, Peter and Paul Fortress, theatre performances.

Language

English is the working language of the Symposium. No translation service will be provided.

Proceedings

The proceedings of MOMPS-X will be published in special issues of **Polymers** and **Polymer Science Series C**.

Open Access Journal Polymers (MDPI) invites Symposium participants to submit their papers **with a 15% discount**. **2 best papers of young scientists** will be selected by the Scientific Committee **for free publication in Polymers**.
https://www.mdpi.com/journal/polymers/special_issues/MOMPS

Invited Speakers

S.H. Anastasiadis, Greece

Designing Materials at the Macromolecular Level: Towards High Performance Solid Polymer Electrolytes for Energy Storage

M. Ballauff, Germany

Biohybrids from polyelectrolytes and proteins and their application in medicine

A. Grosberg, USA

Chromatin hydrodynamics

B. Iván, Hungary

To be announced

D. Ivanov, France

To be announced

M. Karttunen, Canada

Computational modeling of smart polymeric materials for healthcare

J.M. Kenny, Italy,

Processing and properties of polymer matrix nanocomposites

D. Kolodyazhnyy, Russia

Polymer materials in shipbuilding

E. Kumacheva, Canada

Polymers and nanoparticles: bridging two worlds

S.K. Kumar, USA

Tuning Nanoparticle Ordering by polymer Crystallization

A.V. Lyulin, The Netherlands

Multiscale modelling of Novel Polyelectrolyte Membranes for Fuel Cells and Flow Batteries

G.B. McKenna, USA

Testing Paradigms of the Glass Transition: Ultra-low Fictive Temperature Glasses

A. Milchev, Bulgaria

Anomalous Slowdown of Polymer Detachment Dynamics on Carbon Nanotubes

M. Möller, Germany

Can a material perform as an engine?

A.M. Muzafarov, Russia

To be announced

S.A. Ponomarenko, Russia

To be announced

S. Pricl, Italy

Computational/experimental experience in self-assembling materials for nanotheranostics

G. Reiter, Germany

Non-equilibrated Polymer Melts: Translating Molecular Relaxations into Lifting of Weights

M. Saphiannikova, Germany

Interplay between photo-orientation and photo-deformation in azobenzene polymers

Ch. Schick, Germany

Interplay between enthalpy relaxation and crystal nucleation

F. Schmid, Germany

Constructing dynamic density functional theories for inhomogeneous polymer systems from microscopic simulations

H.-W. Schmidt, Germany

Polymer gradient materials - current capabilities and future perspectives

A. Semenov, France

Rheological mechanisms of phase separation in polymer solution jets

V. Shchetnikava, The Netherlands

A comparison of tube models to predict the linear viscoelastic properties of entangled polymer melts

Yu. Shchipunov, Russia

To be announced

S. Sheiko, USA

Understanding firmness of tissue-mimetic materials

D. Theodorou, Greece

Meeting the challenge of long times in entangled macromolecules: From atomistic to mesoscopic simulations of polymer melts in the bulk and at interfaces

B. Voit, Germany

Design and synthesis of polymeric semiconductor for organic electronics

F.V. Winnik, Finland

Self-assembly of responsive amphiphilic polymers in water

A.A. Yaroslavov, Russia

To be announced