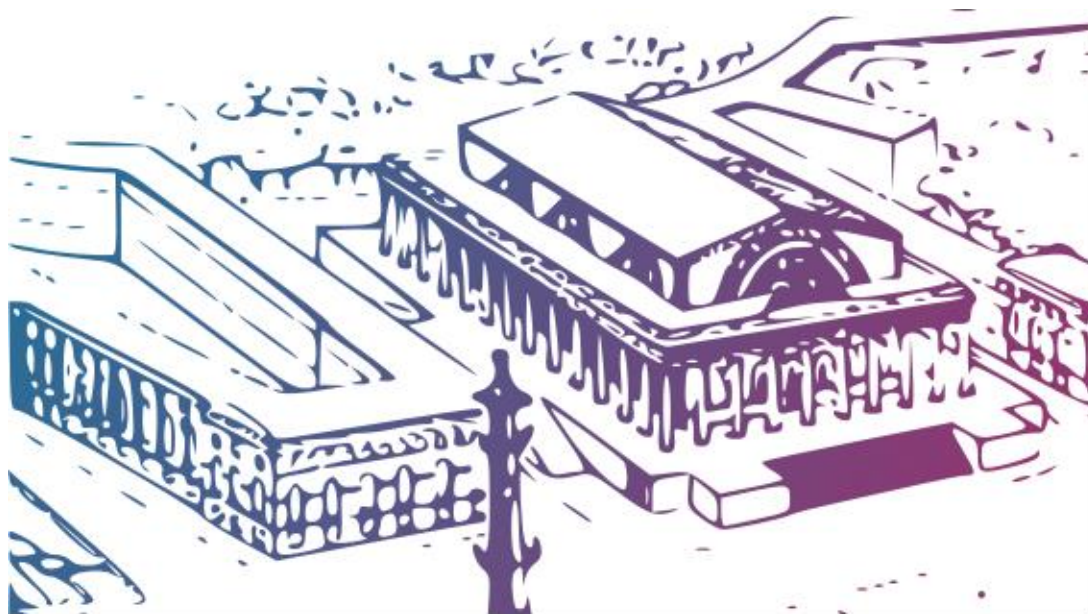


**INSTITUTE OF MACROMOLECULAR COMPOUNDS
RUSSIAN ACADEMY OF SCIENCES**



MODERN PROBLEMS OF POLYMER SCIENCE

**15th International Saint Petersburg Conference
of Young Scientists**

Saint Petersburg, October 28 – 31, 2019

PROGRAM

Organized by

**RUSSIAN ACADEMY OF SCIENCES
DEPARTMENT OF CHEMISTRY AND
MATERIALS SCIENCES**



**INSTITUTE OF MACROMOLECULAR
COMPOUNDS OF THE RUSSIAN
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**RUSSIAN FOUNDATION FOR BASIC
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TIME TABLE

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11-30 – 13-00	Section 1. <i>Polymer synthesis and modification</i>	Section 5. <i>Theory and simulation</i>
13-00 – 14-30	Lunch	
14-30 – 16-00	Section 2. <i>Physicochemical properties of polymers</i>	Section 4. <i>Bio-related and medical polymers</i>
16-00 – 16-30	Coffee Break	
16-30 – 18-30	Poster presentations (<i>Section 3 and Section 6</i>)	
18-30 – 20-30	WELCOME PARTY (<i>Café “Molecule”</i>)	
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11-30 – 13-00	Plenary session	
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16-30 – 18-30	Poster presentations (<i>Section 1 and Section 5</i>)	
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11-30 – 13-00	Plenary session	
13-00 – 14-30	Lunch	
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10-00 – 11-00	Section 5. <i>Theory and simulation</i>	Section 1. <i>Polymer synthesis and modification</i>
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11-30 – 12-45	Section 5. <i>Theory and simulation</i>	Section 1. <i>Polymer synthesis and modification</i>
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SCIENTIFIC PROGRAM

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10-15 – 11-00	<u>Khutoryanskiy V.V.</u> DESIGNING NOVEL POLYMERIC SYSTEMS FOR TRANSMUCOSAL DRUG DELIVERY	PL-02
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11-45 – 12-00	<u>Dulmaev S.E., Fazlyev A.R., Davletbaev R.S., Faizulina Z.Z., Dzhabbarov I.M., Davletbaev I.M.</u> POLYURETHANES BASED ON AMINOETHERS OF BORIC ACID	1-O-02
12-00 – 12-15	<u>Kashina A.V., Meleshko T.K., Bogorad N.N., Bezrukova M.A., Yakimansky A.V.</u> GRAFTED MULTIBLOCK-COPOLYMERS WITH CENTRAL BLOCK OF POLYIMIDE BRUSH AND OUTER BLOCKS OF PMMA AND PCL	1-O-03
12-15 – 12-30	<u>Ksendzov E.A., Nikishau P.A., Kostjuk S.V.</u> SYNTHESIS AND CHARACTERIZATION OF COPOLYMERS OF N-ISOPROPYLACRYLAMIDE AND MACROMONOMERS BASED ON OLIGOLACTIDE AND OLIGOCAPROLACTONE	1-O-04
12-30 – 12-45	<u>Mineeva K.O., Osipova N.I., Plutalova A.V., Zaitsev S.D., Chernikova E.V.</u> AN INFLUENCE OF THE BOOTSTRAP-EFFECT ON THE PHYSICAL-CHEMICAL PROPERTIES OF RAFT-BASED COPOLYMERS OF ACRYLIC ACID AND STYRENE	1-O-05

12-45 – 13-00	<u>Zakharina M.Yu.</u> , Arsenyev M.V., Shushunova N.Yu., Shurigina M.P., Chesnkov S.A. EFFECT OF VISCOSITY OF DIMETHACRYLIC MONOMERS ON THE KINETICS OF THEIR PHOTOPOLYMERIZATION IN THE PRESENCE OF QUINONE-AMINE INITIATORS	1-O-06
Section 5. Theory and simulation Chair: Saphiannikova M.		Café Molecule
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11-45 – 12-00	<u>Davlyud D.N.</u> , Kasandrovich E.G., Vorobieva E.V., Bezyazychnaya T.V. QUANTUM-CHEMICAL MODELING OF INTERMOLECULAR AND ION-MOLECULAR INTERACTIONS IN WATER-SALT SOLUTIONS OF ACRYLAMIDE (CO)POLYMERS	5-O-02
12-00 – 12-15	<u>Wengenmayr M.</u> , Dockhorn R., Sommer J.-U. THEORY OF DENDRIMERS IN SOLUTION OF LINEAR POLYMERS	5-O-03
12-15 – 12-30	<u>Gordievskaya Yu.D.</u> , Kramarenko E.Yu. THE INFLUENCE OF THE SIZE OF COUNTERIONS ON THE ELECTROPHORESIS PROCESS IN A DILUTE SOLUTION OF POLYELECTROLYTES	5-O-04
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15-15 – 15-30	<u>Dubinenko G.E.</u> , Zinoviev A.L., Akimchenko I.O., Bolbasov E.N., Novikov V.T., Tverdokhlebov S.I. BIODEGRADABLE COMPOSITE FOR 3D PRINTING OF BONE TISSUE GROWTH STIMULATING IMPLANTS	4-O-04
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10-15 – 10-30	<u>Nikolaeva A.L.</u> , Gofman I.V., Yakimansky A.V., Ivan'kova E.M., Teplonogova M.A., Ivanova O.S., Baranchikov A.E., Ivanov V.K. COMPOSITES WITH CeO ₂ NANOPARTICLES IN THE POLYMER MATRICES: THERMAL AND MECHANICAL PROPERTIES	3-O-04
10-30 – 10-45	<u>Kobykhno I.A.</u> , Honcharenko D.V., Hongyu Li, Tolochko O.V. EFFECT OF INTRODUCTION OF FULLERENE SOOT ON PROPERTIES OF THERMOPLASTIC POLYMER BASED COMPOSITE	3-O-05
10-45 – 11-00	<u>Kostromin S.V.</u> , Bronnikov S.V. INTERFACIAL POLARIZATION IN POLYAZOMETHINE/CARBON NANOTUBES NANOCOMPOSITES	3-O-06
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15-15 – 15-30	<u>Lenshina N.A.</u> , Arsenyev M.V., Baten'kin M.A., Polushtaytsev Y.V., Chesnokov S.A. VISIBLE LIGHT INDUCED SYNTHESIS AND HYDROPHOBIZATION OF THICK POROUS POLYMER MONOLITHS	1-O-16
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15-45 – 16-00	<u>Khamatnurova A.R.</u> , Shekaeva A.R., Fedorchuk A.N., Spiridonova R.R. COPOLYMERIZATION OF ϵ -CAPROLACTAM WITH ω -DODECALACTAM IN PRESENCE OF SILICON DIOXIDE, TITANIUM DIOXIDE AND ALUMINIUM OXIDE	1-O-18
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14-30 – 14-45	<u>Rud O.</u> , Košován P. MODELLING OF WEAK POLYELECTROLYTE HYDROGEL IN GIBBS ENSEMBLE	5-O-07
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15-00 – 15-15	<u>Domurath J.</u> , Férec J., Ausias G., Saphiannikova M. MODELING THE STRESS TENSOR OF POLYMER MELTS FILLED WITH RIGID ANISOMETRIC PARTICLES	5-O-09
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15-30 – 15-45	<u>Bakulin I.K.</u> , Kondratyuk N.D., Lankin A.V., Norman G.E. DIFFUSION OF IONS IN WATER SOLUTION OF ETHYLENE AND ETHYLENE OXIDE COPOLYMERS	5-O-11
15-45 – 16-00	<u>Lazutin A.A.</u> , <u>Kosmachev A.N.</u> , Vasilevskaya V.V. LAMELLAE AND PARKING GARAGE STRUCTURES IN AMPHIPHILIC HOMOPOLYMER BRUSHES WITH DIFFERENT GRAFTING DENSITIES	5-O-12

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10-30 – 10-45	Melnikova S.D., Glova A.D., Falkovich S.G., Nazarychev V.M., Larin S.V., Lyulin S.V. STRUCTURE OF GRAFTED OLIGOLACTIDES WITH BRANCHED ARCHITECTURE	5-O-15
10-45 – 11-00	<u>Koch M.</u> , Saphiannikova M., Guskova O. REORIENTATION BY PHOTOISOMERIZATION: DROPLETS OF PMMA WITH AZOBENZENE SIDE CHAINS UNDER UV-VIS LIGHT	5-O-16
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10-15 – 10-30	<u>Kashapova N.I.</u> , Ahmedova A.I., Galkina E.A., Spiridonova R.R. SYNTHESIS OF DIOXANONE AND ITS COPOLYMERS WITH LACTIDE	1-O-20
10-30 – 10-45	<u>Ivanova A.A.</u> , Emel'yanov A.I., Pozdnyakov A.S. FUNCTIONAL NANOCOMPOSITES BASED ON 1-VINYL-1,2,4-TRIAZOLE AND VINYLSULFONIC ACID SODIUM SALT COPOLYMERS	1-O-21
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12-00 – 12-15	<u>Yadav B.</u> , Domurath J., Saphiannikova M. ORIENTATION APPROACH TO DIRECTIONAL PHOTO-DEFORMATIONS IN GLASSY SIDE-CHAIN AZOPOLYMERS	5-O-19
12-15 – 12-30	<u>Nadzharyan T.A.</u> , Stolbov O.V., Raikher Yu.L., Kramarenko E.Yu. MODELING OF THE MAGNETOACTIVE ELASTOMER SURFACE RELIEF IN THE PRESENCE OF EXTERNAL MAGNETIC FIELDS	5-O-20
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11-45 – 12-00	<u>Grushin P.N.</u> , Knyazeva N.A., Grishin I.D. FEATURES OF PHOTOCONTROLLED POLYMERIZATION OF VINYL MONOMERS UNDER THE INFLUENCE OF SYSTEMS BASED ON PHENOXAZINE DERIVATIVES	1-O-24
12-00 – 12-15	<u>Kuharenko O.V.</u> , Hulnik M.I., Vasilenko I.V., Kostjuk S.V. SnCl ₄ -INITIATED CATIONIC POLYMERIZATION OF TRANS-ANETHOLE	1-O-25
12-15 – 12-30	<u>Eshkurbonov F.B.</u> , Dzhililov A.T., Turaev Kh.Kh., Eshkurbonova M.B. SORPTION AND PHYSICO-CHEMICAL PROPERTIES OF COMPLEXING ION EXCHANGERS	1-O-26
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Adzhieva O.A., Roenko A.V., Denisova Yu.I., Gringolts M.L.,
Kudryavtsev Y.V.

- 1-P-01** SYNTHESIS OF NEW OLEFIN METATHESIS DERIVED
NORBORNENE AND 5-ACETOXYCYCLOOCTENE-1
COPOLYMERS AND THEIR SURFACE PROPERTIES

Alyeva A.B., Kolyakina E.V., Grishin D.F.

- 1-P-02** DINITRONES IN THE HOMOPOLYMERIZATION OF METHYL
METACRYLATE IN THE PRESENCE OF A SMALL AMOUNT OF
VINYL MONOMERS

Artamonova N.E., Ezhova A.A., Gritskova I.A.

- 1-P-03** RADICAL POLYMERIZATION OF VINYL ACETATE IN THE
PRESENCE OF SURFACTANTS OF VARIOUS STRUCTURES

Chupakhina E.S., Roenko A.V., Gringolts M.L., Denisova Yu.I.,
Shandryuk G.A., Peregudov A.S., Kudryavtsev Y.V.

- 1-P-04** FEATURES OF INTERCHAIN CROSS-METATHESIS BETWEEN
POLYNORBORNENE AND POLY (5-
CARBONYLCYCLOOCTENE-1) UNDER THE INFLUENCE OF
GRUBBS CATALYSTS

Doronin F.A., Evdokimov A.G., Savel'ev M.A., Lazareva O.V.,
Savitskaya A.V., Nazarov V.G.

- 1-P-05** EFFECT OF SURFACE MODIFICATION ON THE
PERMEABILITY OF THE POLYMER FILMS, USED IN THE
PRINTING AND PACKAGING

Doronin F.A., Evdokimov A.G., Rytikov G.O., Bogdanova N.A.,
Nazarov V.G.

- 1-P-06** THE CREATION OF BIO- AND CHEMO- RESISTANT
MATERIALS BASED ON THERMOPLASTICS AND
ELASTOMERS WITH THE GAS-PHASE SURFACE
FLUORINATION TECHNIQUE FOR TROPICAL (AND OTHER)
CLIMATE USING

Dulmaev S.E., Sazonov O.O., Fazlyev A.R., Davletbaeva I.M.,
Klinov A.V., Davletbaev R.S.

- 1-P-07** POLYURETHANE PERVAPORATION MEMBRANE MATERIALS
BASED ON HYPERBRANCHED AMINOETHERS OF BORIC
ACID

- 1-P-08** Faizulina Z.Z., Davletbaev R.S., Zaripov I.I., Iskhakov A.F., Davletbaeva I.M.
 MODIFICATION OF POLYDIMETHYLSILOXANES BY AMPHIPHILIC MACROMOLECULAR BRUSHES
- 1-P-09** Gaivoronsky A.V., Duflot V.R.
 SYNTHESIS AND PROPERTIES OF THERMOSENSITIVE CHELATED COPOLYMER FOR LOCAL RETENTION OF THERAPEUTIC RADIONUCLIDE
- 1-P-10** Gulii N.S., Goikhman M.Ya., Podeshvo I.V., Loretsyan N.L., Polotskaya G.A., Yakimanskii A.V.
 METAL-POLYMER COMPLEXES BASED ON BIQUINOLINE MACROMOLECULAR LIGANDS - PROMISING MATERIALS FOR MEMBRANE TECHNOLOGY
- 1-P-11** Iamalova N., Mechtaeva E., Zorin I., Bilibin A.
 POLYMERIZATION OF IONIC MONOMERS IN THE PRESENCE OF BIFUNCTIONAL SURFACTANTS BASED ON NATURAL COMPONENTS AND PROPERTIES OF THE OBTAINED POLYELECTROLYTE COMPLEXES
- 1-P-12** Ivanov I.V., Simonova M.A., Bogorad N.N., Meleshko T.K., Filippov A.P., Yakimansky A.V.
 AMPHIPHILIC COPOLYIMIDES OF COMPLEX ARCHITECTURE: SYNTHESIS, STRUCTURE AND SELF-ASSEMBLY
- 1-P-13** Borisova M.E., Jayasinghe B.M.D.N.S., Kamalov A.M., Smirnova V.E.
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- 1-P-14** Kashina E.S., Proskurina V.E., Galyametdinov Y.G.
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- 1-P-15** Kaskevich K.I., Tkach O.N., Ilgach D.M.
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- 1-P-16** Didenko A.L., Bogdanova E.A., Vaganov G.V., Kuznetcov D.A., Smirnova V.E., Popova E.N., Kobychko I.A., Tolochko O.V., Yudin V.E., Kudryavtsev V.V.
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- 1-P-17** Kuznetcov D.A., Svetlichnyi V.M., Didenko A.L., Kudryavtsev V.V.
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- Levina J.V., Chernikova E.V.
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 PROPERTIES
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- Madoyan A.M., Popova N.A., Karnavskaya A.S., Molotkova N.N.,
 Drachev A.I., Lobanov D.A., Borovkova A.V., Grachev A.A.,
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- Strelova M.S., Pal'shin V.A., Salnik P.A., Danilovtseva E.N., Annenkov V.V.
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- Zhiganshina E.R., Arsenyev M.V., Konev A.N., Chechet Yu.V., Chesnokov S.A.
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- 2-P-11** Filippov A.S., Smirnova A.V., Kirila T.U., Tenkovtsev A.V., Filippov A.P.
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- 2-P-13** Iushina D.D., Ulbrich J., Guerrero-Sanchez C., Schubert U.S., Tsvetkov N.V., Perevyazko I.
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2-P-20 EFFECT OF THE MOLAR MASS ON THERMO- AND pH-
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