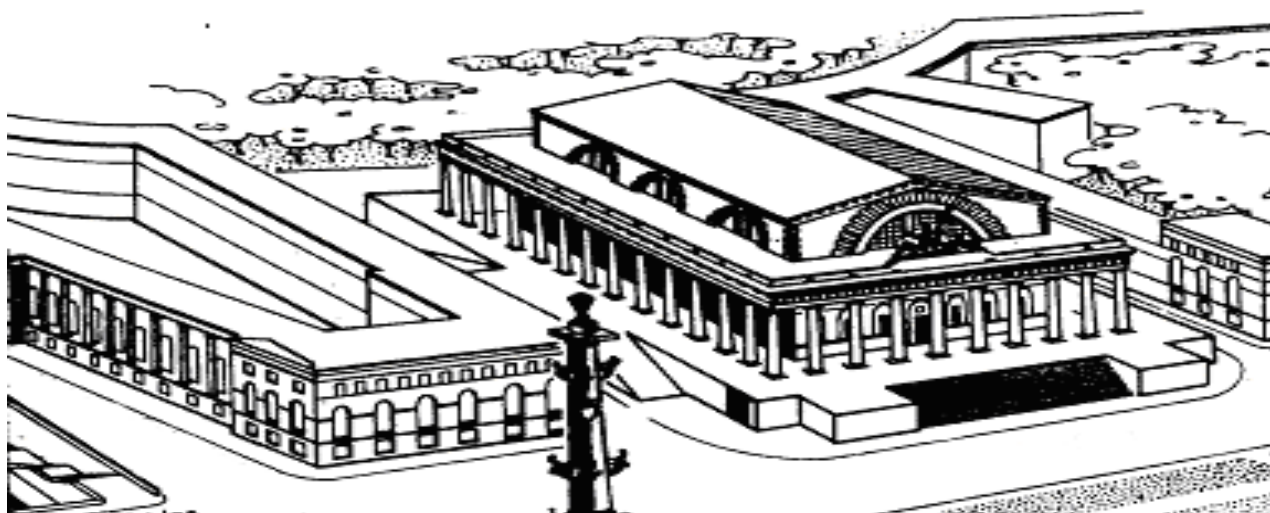


RUSSIAN ACADEMY OF SCIENCES
DEPARTMENT OF CHEMISTRY AND MATERIAL SCIENCES

SAINT-PETERSBURG SCIENTIFIC CENTER
OF RUSSIAN ACADEMY OF SCIENCES

INSTITUTION OF RUSSIAN ACADEMY OF SCIENCES
INSTITUTE OF MACROMOLECULAR COMPOUNDS
RUSSIAN ACADEMY OF SCIENCES



MODERN PROBLEMS OF POLYMER SCIENCE

**Program and Abstract Book
of 5th Saint-Petersburg Young Scientists Conference**

**October 19 – 22, 2009
Saint-Petersburg**

Organized by:

**INSTITUTION OF RUSSIAN ACADEMY OF SCIENCES
INSTITUTE OF MACROMOLECULAR COMPOUNDS RUSSIAN
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SCIENTIFIC PROGRAM

Monday, October 19		
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Plenary session Chair: Prof. Vlasov G.P.		Conference Hall
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10-15 – 11-00	Yudin V.E. NEW THERMALLY STABLE COMPOSITE MATERIALS ON THE BASE OF NANOTECHNOLOGIES	P-2
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11-45 – 12-00	I.V. Semenov, A.B. Gilman, M.Yu. Yablokov, A.A. Kuznetsov POLYMERIZATION OF DURENE BY DIRECT CURRENT DISCHARGE	1-O-02
12-00 – 12-15	E.A. Markina, O.V. Sofronova, R.A. Akhmedianova, S.Z. Chelnokova THE INFLUENCE OF ALKYL CHLORIDE ON INITIAL RATE OF BUTYL RUBBER SYNTHESIS CARRIED OUT IN SUSPENSION	1-O-03
12-15 – 12-30	M.L. Levit, T.N. Nekrasova, O.V. Nazarova, A.V. Dobrodumov, I.V. Moyseyuk, E.F. Panarin WATER-SOLUBLE POLYMER DERIVATIVES OF CHOLESTEROL AND B-CYCLODEXTRIN	1-O-04
12-30 – 12-45	Yu.I. Zolotova, N.A. Esipenko, O.V. Nazarova, A.D. Zorina, E.F. Panarin WATER-SOLUBLE POLYMER DERIVATIVES OF OLEANANE- TYPE TRITERPENOIDS	1-O-05
12-45 – 13-00	A.N. Frolov, S.V. Kostjuk LIVING CATIONIC POLYMERIZATION OF STYRENE WITH ALUMINUM CHLORIDE AS CO-INITIATOR	1-O-06
13-00 – 14-30	Lunch	
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14-30 – 14-45	A.V. Shlikov, V.V. Zuev POLYMER NANOCOMPOSITES CONTAINING FULLERENE C ₆₀ NANOFILLERS	2
14-45 – 15-00	A.M. Mikhailidi, N.E. Kotelnikova, N.N. Saprikina EFFECT OF ALKALINE TREATMENT ON THE PREPARATION OF NICKEL PARTICLES IN HYDRATE CELLULOSE FOIL	2-O-02

15-00 – 15-15	Yu.R. Ablakova, F.G. Valeeva, L.Ya. Zakharova, A.I. Kononov NANOREACTORS BASED ON NONIONIC SURFACTANT AND IONS IMMOBILIZED ON THE POLYETHYLENEIMINE MATRIX	2-O-03
15-15 – 15-30	A.V. Yurina, A.B. Mirgorodskaya, S.S. Lukashenko, L.Ya. Zakharova POLYMER-COLLOID SYSTEMS BASED ON POLYETHYLENEIMINES: AGGREGATION AND CATALYSIS	2-O-04
15-30 – 15-45	G.B. Vasilyev, V.V. Karbushev, Ivannikov A.V. STRUCTURE AND RHEOLOGICAL PROPERTIES OF POLYMER-NANODIAMONDS COMPOSITES	2-O-05
15-45 – 16-00	A.A. Molodova, N.V. Volkova, D.N. Yemelyanov EFFECT OF TEMPERATURE ACTION ON STRENGTH PROPERTIES OF COMPOSITIONS OF INCOMPATIBLE POLYMERS	2-O-06
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9-45 – 10-00	S.G. Falkovich, I.M. Neelov, A.A. Darinskii LONGITUDINAL DEFORMATION OF PROTEIN SUPERHELIX	3-O-02
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10-15 – 10-30	A.V. Glyakina, O.V. Galzitskaya, N.K. Balabaev EXPLORATION OF MECHANICAL PROPERTIES OF PROTEINS L AND G	3-O-04
10-30 – 10-45	R.A. Gerasimov, A.V. Maksimov POLARIZATION IN FERROELECTRICAL POLYMER FILMS	3-O-05
10-45 – 11-00	V.P. Toshchevnikov, M. Saphiannikova, G. Heinrich THEORY OF LIGHT-INDUCED DEFORMATION IN AMORPHOUS AZOBENZENE POLYMERS	3-O-06
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15-30 – 15-45	R.T. Imanbaev, M.L. Levit, A.A. Nikiticheva, V.D. Pautov, T.N. Nekrasova, O.V. Nazarova STABILITY AND FORMATION OF COMPLEXES BASED ON SURFACTANTS AND COPOLYMERS OF METHACRYLOYLAMINOGLUCOSE AND CARBOXYLIC ACIDS	2-O-17
15-45 – 16-00	A.V. Kozlov, M.A. Simonova, O.G. Zakharova, E.B. Tarabukina, Y.D. Semchikov, A.P. Filippov THE INVESTIGATION OF SOLUTION PROPERTIES OF TRIS- (PENTAFLUOROPHENYL)GERMANIUM AND BIS- (PENTAFLUOROPHENYL) GERMANIUM COPOLYMERS WITH METHODS OF MOLECULAR HYDRODYNAMIC AND OPTICS	2-O-18
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9-30 – 9-45	I.V. Sedov, L.N. Russiyan, P.E. Matkovskiy TANDEM CATALYTIC SYSTEMS FOR ETHYLENE-BUTENE COPOLYMERS SYNTHESIS	1
9-45 – 10-00	Yu.A. Piskun, I.V. Vasilenko, S.V. Kostjuk, K.V. Zaitsev LIVING RING-OPENING POLYMERIZATION OF CAPROLACTONE USING DIFFERENT TITANIUM COMPLEX AS CATALYSTS	1-O-08
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10-15 – 10-30	D.M. Ilgach, T.K. Meleshko, N.N. Bogorad, N.I. Gorshkov, A.V. Yakimansky SYNTHESIS OF NOVEL POLYMER BRUSHES CONSISTING OF POLYIMIDE BACKBONE AND POLY(METH)ACRYLATE SIDE CHAINS	1-O-10
10-30 – 10-45	D.I. Shiman, S.V. Kostjuk THE INFLUENCE OF SOLVENT NATURE ON THE CONTROLLED RADICAL COPOLYMERISATION OF STYRENE WITH MALEIC ANHYDRIDE USING BENZOYL PEROXIDE/I ₂ INITIATING SYSTEM	1-O-11
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10-00 – 10-15	D.A. Kuzov, A.V. Ankudinov INVESTIGATION OF STRUCTURE OF MIXED THERMOPLASTIC ELASTOMERS BASED ON GENERAL-PURPOSE RUBBER AND POLYOLEFIN	2-O-21
10-15 – 10-30	I.S. Kuryndin, A.S. Olifirenko, G.K. Elyashevich TRANSPORT AND MECHANICAL PROPERTIES OF COMPOSITE MEMBRANES CONTAINING POLYACRYLONITRILE LAYER ON POROUS POLYETHYLENE SUPPORT	2-O-22
10-30 – 10-45	A. Zhuk, I. Erel-Unal, L. Xu, Z. Zhu, S.A. Sukhishvili MONOLAYERS AND MULTILAYERS OF DUALY RESPONSIVE MICELLES	2-O-23

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Session 4. Polymer applications Chair: Dr. Goikhman M.Ya.		Conference Hall
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15-15 – 15-30	D.V. Zhilinski, P.Yu. Morozova, A.Yu. Solovyev PURIFICATION OF REGULATORY PEPTIDES FROM NUCLEOPROTEIN COMPLEX	4-O-04
15-30 – 15-45	Melnikov I.A, Polegotchenkov B.V. OBTAINING OF POLYMERIC COMPOSITE MAGNETOCONDUCTOR MATERIALS WITH IMPROVED MAGNETOSTRICTING CHARACTERISTICS	4-O-05
15-45 – 16-00	T.H. Nguyen, A.V. Navrotskii, I.A. Novakov SYNTHESIS OF POLYMER-COLLOID COMPLEXES BASED ON CATIONIC POLYELECTROLYTES AND OPPOSITELY CHARGED SURFACTANT AND INVESTIGATION THEIR FLOCCULATING ACTIVITY	4-O-06
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10-45 – 11-00	A.V. Strutsky, M.A. Gumennaya, E.A. Lysenkov, S.I. Lobok, N.S. Klimenko, V.V. Shevchenko ORGANIC-INORGANIC PROTON-CONDUCTING MEMBRANES BASED ON CARBAMIDE-URETHANE PRECURSORS OBTAINED BY SOL-GEL METHOD	1-O-18
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Chair: Dr. Solovyev A.Yu.		
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10-00 – 10-15	A.Ts. Portnaya, D.R. Sharafutdinova, N.N. Simonova, A.G. Liakumovich IDENTIFICATION OF UNBOUND SUBSTANCES IN MEDICAL RUBBER STOPPERS BY ANALYTICAL METHODS OF THE HIGH PERMISSION	4-O-09
10-15 – 10-30	D.A. Galanin, N.P. Boreiko, O.V. Sofronona, V.A. Mikheeva, E.N. Tkacheva, E.R. Garaeva EPDM STABILIZATION	4-O-10
10-30 – 10-45	V.D. Voronchikhin, I.A. Iljin, K.A. Dubkov, D.P. Ivanov, S.V. Semikolenov RESEARCHES OF INFLUENCE OF CARBOXYDATION REGENERATE ON STRUCTURE AND PROPERTIES OF POLYMERIC COMPOSITIONS	4-O-11

10-45 – 11-00	E.V. Ovchinnikov RESEARCH OF DISTRIBUTION OF A PARAMETER OF REFRACTION IN GRADANS A METHOD MICROINTERFEROMETRY	4-O-12
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11-45 – 12-00	I.V. Neratova, P.G. Khalatur SOLVENT-DEPENDENCE MORPHOLOGY CONTROL IN DIBLOCK COPOLYMER FILMS: DISSIPATIVE PARTICLE DYNAMICS	3-O-08
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12-15 – 12-30	S.V. Larin, A.V. Lyulin, A.A. Darinskii, S.V. Lyulin COMPUTER SIMULATION OF INTERPOLYELECTROLITE COMPLEXES FORMED BY TWO DENDRIMERS AND LINEAR POLYELECTROLYTE	3-O-10
12-30 – 12-45	I.V. Kusheva, A.V. Maximov ORIENTATIONAL ORDER AND BIREFRINGENCE EFFECT NEAR POLYMER SURFACES	3-O-11
12-45 – 13-00	E.V. Reshetnikov, A.A. Darinskii, A.V. Lyulin, S.V. Lyulin DENDRIMERS AND HYPERBRANCHED POLYMERS IN SOLUTIONS OF DIFFERENT QUALITY. BROWNIAN DYNAMICS SIMULATIONS	3-O-12
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14-30 – 14-45	D.A. Adamchik, P.M. Bychkovsky, T.L. Yurkshtovich, S.O. Solomevich, R.Yu. Smyslov, A.K. Khripunov IMMOBILIZATION OF CISPLATIN BY CARBOXYL CONTAINED CELLULOSES	2
14-45 – 15-00	M.A. Smirnov, N.V. Bobrova, D.Zh. Zainullina, G.K. Elyashevich THE INFLUENCE OF POLYMERIZATION CONDITIONS ON THE SWELLING CAPABILITY AND STRUCTURE OF POLYACRYLIC ACID HYDROGELS	2-O-26
15-00 – 15-15	B.A. Dribinsky, N.A. Kasyanenko INFLUENCE OF THE DEGREE OF POLY-L-LYSINE POLYMERISATION ON FORMATION OF DNA-POLYCATION COMPLEXES	2-O-27
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15-30 – 15-45	T.U. Rodionova, E.V. Chikhirzhina, R.V. Kurilov, E.V. Skvortsova, A.M. Polyanichko INTERACTION OF NONHISTON CHROMOSOMAL PROTEIN HMGB1 WITH DNA	2-O-29
15-45 – 16-00	E.F. Panarin, O.A. Pisarev, I.V. Polyakova, A.R. Groshikova, A.P. Leschinskaya STUDY OF THE CORRELATION OF THE SPECIFIC AND NON-SPECIFIC BINDING CONTRIBUTION TO THE URIC ACID SORPTION BY THE CROSSLINKED MOLECULARLY IMPRINTED POLYMER	2-O-30
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16-00 – 18-00	POSTER PRESENTATIONS <i>Session 4. Polymer applications</i> 4-P-01 – 4-P-46	
18-00 – 18-30	Closing Ceremony	Conference Hall

LIST OF POSTER PRESENTATIONS

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1-P-01

COPOLYMERIZATION OF SODIUM 2-ACRYLAMIDO-2-METHYLPROPANESULFONATE WITH SODIUM ACRYLATE IN THE CONCENTRATED AQUEOUS SOLUTIONS

A.V. Kurenkov, V.F. Kurenkov, F.I. Lobanov

1-P-02

RESEARCH OF POLYMERIC DOUGH PD-1 IN OIL-BENZINE-RESISTANT RUBBER PRODUCTION

A.V. Shineleva, N.F. Ushmarin, S.I. Sandalov, N.I. Koltsov

1-P-03

TRIBOMODIFICATION OF POLY-E-CAPROAMIDE BY POLYFLUORO-OLIGOCAPROAMIDES

S.V. Kudashev, N.A. Rakhimova, I.A. Novakov

1-P-04

APPLICATION OF TERRASIL IN THE SHOE RUBBER STOCK

N.V. Avtina, N.F. Ushmarin, S.I. Sandalov, N.I. Koltsov

1-P-05

OBTAINING OF THE LOW-MOLECULAR POLYMERIC MATERIAL FROM BY-PRODUCTS OF POLYBUTADIENE SYNTHESIS IN THE PRESENCE OF PINANE HYDROPEROXIDE

N.S. Nikulina

1-P-06

IRON (II) AND NITROGEN COMPOUNDS IN COMPLEX RADICAL POLYMERIZATION

O.I. Golovochemasova, R.M. Islamova, Yu.B. Monakov

1-P-07

FERROCENYLCLATHROCHELATE IRON (II) AND BENZOYL PEROXIDE INTERACTION

G.R. Sadykova, R.M. Islamova, Yu.B. Monakov, Yan Z. Voloshin

1-P-08

ANTIBACTERIAL MEMBRANES BASED ON HYDROGEL NANOREACTORS

G.A. Pobigay, V.V. Konovalova, Yu.M. Samchenko, A.F. Burban

1-P-09

METAL COMPLEXES OF NA-CARBOXYMETHYL CELLULOSE WITH ARGENTUM IONS AND THEIR NANOSTRUCTURED COMPOSITES

Kh.E. Yunusov, A.A. Sarymsakov, S.Sh. Rashidova

1-P-10

RADICAL POLYMERIZATION OF METHYL METHACRYLATE IN THE PRESENCE OF CHLORIDE COMPLEX OF 5,15-BIS(4'-TERT-BUTYLPHENYL)-2,8,12,18-TETRA-N-BUTYL-3,7,13,17-TETRA-METHYLPORPHYRIN OF FE (III)

R.M. Islamova, S.V. Nazarova, Yu.B. Monakov, O.I. Koifman

1-P-11

THE APPLICATION OF POLYVINYL ALCOHOL AND ACRYLAMIDE AS SUPERFICIAL MODIFYING AGENTS

E.N. Lunegova, O.V. Gornukhina

1-P-12

COPOLYMERIZATION OF 2,2-DIALLYL-1,1,3,3-TETRAETHYLGUANIDINIUMCHLORIDE WITH N-SUBSTITUTED MALEIMIDES

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