



XXII MENDELEEV CONGRESS ON
GENERAL AND APPLIED CHEMISTRY

PROGRAM

7 — 12.10.2024

The Sirius Federal Territory
SIRIUS UNIVERSITY, OLYMPIC AVENUE, 1

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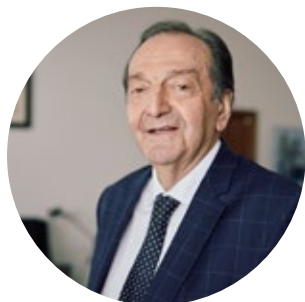
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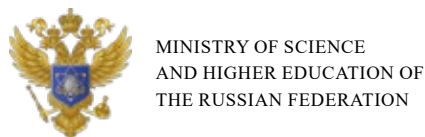
Torres T.

Spain



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XXII MENDELEEV CONGRESS ON
GENERAL AND APPLIED CHEMISTRY

PLENARY LECTURES

Time specified in the program,
includes report and answers to questions

Plenary lectures

MONDAY, OCTOBER 7

Hall Mendeleev		
13:00–14:00	Opening ceremony <i>Chair: Tsivadze A.Yu.</i>	
14:00–14:40	Krasnikov G.Ya.	MICROELECTRONIC TECHNOLOGIES, STATUS AND DEVELOPMENT PROSPECTS
14:40–15:20	Kovalchuk M.V.	NATURE LIKENESS: A NEW ERA OF HUMAN DEVELOPMENT
15:20–16:00		Break <i>Chair: Zolotov Yu.A.</i>
16:00–16:40	Shechtman D. (Israel)	QUASI-PERIODIC CRYSTALS, A PARADIGM SHIFT IN CRYSTALLOGRAPHY
16:40–17:20	Cetto A.M. (Mexico)	QUANTUM PHYSICS: 100 YEARS OF OPEN QUES- TIONS
17:20–18:00	Fokin V. (USA)	LIFE OF A MOLECULE: FROM CHEMICAL REACTIVITY TO A PATIENT
18:00–21:00	Welcome reception	

TUESDAY, OCTOBER 8

Hall Atom		
	<i>Chair: Egorov M.P.</i>	
09:00–09:40	Aldoshin S.M.	CRITICAL TECHNOLOGIES FOR THE DEVELOPMENT OF THE MINERAL RESOURCES BASE OF THE RUSSIAN FEDERATION: FROM FORECASTING AND ORE MINING TO METAL EXTRACTION AND THE HIGH- TECH PRODUCTS
09:40–10:20	Ancheyta Jorge (Mexico)	FROM THE REFINERY TO THE RESERVOIR: APPLICA- TION TO IN-SITU UPGRADING OF HEAVY CRUDE OILS
10:20–10:50		Coffee-break <i>Chair: Dontsova O.A.</i>
10:50–11:30	Gabibov A.G.	COMBINATORIAL CHEMISTRY&BIOLOGY
11:30–12:10	Ananikov V.P.	ARTIFICIAL INTELLIGENCE IN CHEMISTRY
12:10–14:00		Lunch

Plenary lectures

WEDNESDAY, OCTOBER 9

Hall Atom		
<i>Chair: Kalmykov S.N.</i>		
09:00–09:40	Tsivadze A.Yu.	BREAKTHROUGH CHEMICAL TECHNOLOGIES FOR PROCESSING RARE-METAL RAW MATERIALS
09:40–10:20	Rudskoi A.I.	DIGITAL ANALOGS OF INDUSTRIAL TECHNOLOGIES FOR THERMOMECHANICAL PROCESSING (TMP) OF STEEL
10:20–10:50		Coffee-break
<i>Chair: Gorbunova Yu.G.</i>		
10:50–11:30	Kalmykov S.N.	CHEMICAL ASPECTS OF THE DEVELOPMENT OF NEW RADIOPHARMACEUTICALS
11:30–12:10	Torres Tomas (Spain)	SUBPHTHALOCYANINES: SINGULAR AROMATIC NON-PLANAR AND CHIRAL MOLECULES
12:10–14:00		Lunch

THURSDAY, OCTOBER 10

Hall Atom		
<i>Chair: Ananikov V.P.</i>		
09:00–09:40	Beletskaya I.P.	ORGANIC SYNTHESIS
09:40–10:20	Bukhtiyarov V.I.	SUPPORTED BIFUNCTIONAL AND BIMETALLIC CATALYSTS – WHAT IS MORE IMPORTANT IS THE CHOICE OF PREPARATION METHODS OR ACTIVATION CONDITIONS?
10:20–10:50		Coffee-break
<i>Chair: Aldoshin S.M.</i>		
10:50–11:30	Maksimov A.L.	CHEMICAL AND REFINING IN INDUSTRY: NEW CHALLENGES AND OPPORTUNITIES
11:30–12:10	Lysak V.I.	CREATION OF NEW MATERIALS USING EXPLOSION ENERGY
12:10–14:00		Lunch

Plenary lectures

FRIDAY, OCTOBER 11

Hall Mendeleev

Chair: Tsivadze A.Yu.

14:00–14:40 **Zolotov Yu.A.** MENDELEEV CONGRESSES: AN ESSAY ON HISTORY

14:40–15:30 **Closing ceremony**

Chairs – Full Member of RAS M.P. Egorov, Full Member of RAS S.M. Aldoshin

Section 1

FUNDAMENTAL BASES OF CHEMICAL SCIENCE

Time specified in the program,
includes report and answers to questions

October 8

SECTION 1

Hall Lomonosov

Chair: Razumov V.F., Yaroslavtsev A.B.

14:00–14:30	KL	Fedyushkin I.L.	METALLOIMIDAZOLS – NEW CLASS OF ORGANIC HETEROCYCLES
14:30–14:50	IL	Kuchin A.V.	CHLORINE DIOXIDE - A NEW SELECTIVE OXIDIZING AGENT FOR ORGANIC SYNTHESIS
14:50–15:10	IL	Fershtat L.L.	ADVANCES IN THE SYNTHESIS OF POLYNITROGEN HETEROCYCLES
15:10–15:30	IL	Lomonosov I.V.	PHYSICAL - CHEMICAL PROPERTIES OF MATTER UNDER EXTREME CONDITIONS
15:30–15:50	IL	Bagryanskaya E.G.	NITRIDE AND TRITYL RADICALS AND BIRADICALS AS POLARIZING AGENTS FOR DYNAMIC NUCLEAR POLARIZATION
15:50–16:15			Coffee-break

Hall Lomonosov

Chair: Karasik A.A., Zlotin S.G.

16:15–16:30	OL	Butov G.M.	1,3-DEHYDROADAMANTANE AND ITS DERIVATIVES: A UNIVERSAL SYNTHETIC PLATFORM FOR OBTAINING FUNCTIONAL COMPOUNDS WITH FRAMEWORK STRUCTURE
16:30–16:45	OL	Magdesieva T.V.	RIGID SPIROAMINYL RADICALS: A NOVEL TYPE OF STABLE MONO- AND POLYRADICAL SYSTEMS
16:45–17:00	OL	Rostovskii N.V.	2H-AZIRINES: SYNTHETIC BLOCKS, LIGANDS, INTERMEDIATES AND BIOACTIVE SUBSTANCES
17:00–17:15	OL	Dyachenko I.V.	MULTICOMPONENT TANDEM IN THE SYNTHESIS OF FIVE- AND SIX-MEMBERED HETEROCYCLES
17:15–17:30	OL	Gazizov A.S.	CHEMISTRY OF IMIDAZOLINE-2-ONES – ACHIEVEMENTS, CHALLENGES AND PROSPECTS.
17:30–17:45	OL	Burgart Ya.V.	APPROACHES TO SYNTHESIS AND MODIFICATION OF POLYFLUOROFLAVONES
17:45–18:00	OL	Gamov G.A.	COORDINATION CHEMISTRY OF GOLD(III): PECULIARITIES OF COMPLEX FORMATION IN AQUEOUS SOLUTION, COMPLEX STRUCTURE AND INTERACTION WITH PROTEINS AND DNA
18:00–18:15	OL	Tomilov Yu.V.	NEW CARBOCATION CYCLIZATION REACTIONS BASED ON THE FUNCTIONALIZATION OF ALIPHATIC CH ₂ GROUPS

October 8

SECTION 1

18:15–18:30	OL	Sadovnichii D.N.	ASSEMBLY OF NANO AND MICROSTRUCTURES IN CASE OF COLLAPSE OF SYNTACTIC FOAM MICROSPHERES UNDER EXTREME CONDITIONS
18:30–18:45	OL	Savchenkov A.V.	QUANTITATIVE DESCRIPTION OF ATOMIC INTERACTIONS IN CRYSTAL STRUCTURES ON THE EXAMPLE OF BENZENESULFONAMIDE DERIVATIVES
18:45–20:00			Poster session

October 9

SECTION 1

Hall Lomonosov

Chair: Aldoshin S.M., Egorov M.P.

14:00–14:30	KL	Yaroslavtsev A.B.	MATERIALS FOR CHEMICAL CURRENT SOURCES
14:30–14:50	IL	Zlotin S.G.	ORGANIC SYNTHESIS IN LIQUIFIED GASES: ACHIEVEMENTS AND CHALLENGES
14:50–15:10	IL	Nifantev N.E.	APPROACHES FOR INVESTIGATION OF LI-GAND-RECEPTOR INTERACTION: ROLE OF THE LIGAND DISPLAY
15:10–15:30	IL	Komlev V.S.	BIOCOMPATIBLE MATERIALS BASED ON CALCIUM PHOSPHATES FOR REGENERATIVE MEDICINE AND TISSUE ENGINEERING
15:30–15:50	IL	Zolotukhina E.V.	TOWARDS BIOELECTROCHEMICAL DEVICES RESEARCH AND DEVELOPMENT
15:50–16:15			Кофе-брейк

Hall Lomonosov

Chair: Komlev V.S., Saloutin V.I.

16:15–16:30	OL	Konarev D.V.	DESIGN OF METAL-ORGANIC PARAMAGNETS BASED ON METALLOCOMPLEXES, FULLERENES, HEXAAZATRIPHENYLENES AND SPIROPYRANS
16:30–16:45	OL	Kiskin M.A.	INFLUENCE OF INTERMOLECULAR INTERACTIONS ON THE MAGNETIC EFFECT IN COORDINATION COMPOUNDS OF COBALT(II) WITH 1,6-DIAMINOHEXANE
16:45–17:00	OL	Shcherbakov I.N.	COBALT(II) COORDINATION COMPOUNDS WITH FIELD INDUCED SLOW RELAXATION OF MAGNETIZATION
17:00–17:15	OL	Sidorov A.A.	THE STRUCTURE OF MOLECULES OF LANTHANIDES CARBOXYLATE COMPLEXES IN SOLID SOLUTIONS AND CO-CRYSTALS
17:15–17:30	OL	Mikhailov O.V.	HOMO- AND HETEROLIGAND COMPLEXES OF 3d ELEMENTS WITH PORPHYRAZINE/PERFLUOROPORPHYRAZINE AND FLUORINE LIGANDS ACCORDING TO DATA OF THE DFT METHOD: INFLUENCE OF AXIAL AND PERIPHERAL FLUORINE ATOMS
17:30–17:45	OL	Piskunov A.V.	LIGAND-TO-LIGAND' CHARGE TRANSFER IN CATECHOL-DIIMINE METAL COMPLEXES

October 9

SECTION 1

17:45–18:00	OL	Savinkina E.V.	RARE-EARTH HALIDE COMPLEXES OF ACETYLUREA: UNUSUAL VARIETY OF STRUCTURES
18:00–18:15	OL	Tsvetkov D.S.	EXPERIMENTAL THERMOCHEMICAL STUDY OF PEROVSKITE-TYPE CsPbX ₃ (X = Cl, Br, I) HALIDES AND THERMODYNAMIC MODELLING OF BINARY PHASE DIAGRAMS INVOLVING THESE COMPOUNDS
18:15–18:30	OL	Volkov V.I.	WATER AND CATION MOBILITY IN SULFONIC CATION EXCHANGERS STUDIED BY NMR
18:45–20:00			Poster session

October 10

SECTION 1

Hall Lomonosov

Chair: Fedyushkin I.L., Lomonosov I.V.

14:00–14:30	KL	Razumov V.F.	COLLOIDAL QUANTUM DOTS – A NEW CLASS OF PHOSPHORS
14:30–14:50	IL	Karasik A.A.	DESIGN OF BIOCOMPATIBLE LUMINESCENT SYSTEMS BASED ON TRANSITION METAL COMPLEXES WITH P,N-LIGANDS
14:50–15:10	IL	Fedin V.P.	LUMINESCENT L_n -MOF FOR DETECTION OF BIOLOGICALLY ACTIVE SUBSTANCES AND ENVIRONMENTAL POLLUTANTS
15:10–15:30	IL	Saloutin V.I.	MULTICOMPONENT REACTIONS OF POLYFLUORALKYL 3-OXO ESTERS WITH α -METHYLENE CARBONYL COMPOUNDS AND AMINES AS A NEW TOOL FOR ORGANIC SYNTHESIS Saloutin V.I., Goryaeva M.V., Kushch S.O., Burgart Y.V.
15:30–15:50	IL	Karlov S.S.	TETRYLENES BASED ON COORDINATING LIGANDS: SYNTHESIS, ELECTRONIC STRUCTURE AND REACTIVITY
15:50–16:15			Coffee-break

Hall Lomonosov

Chair: Nifantev N.E., Fedin M.V.

16:15–16:30	OL	Brylev K.A.	HEXANUCLEAR METALLOCLUSTER COMPLEXES – AN ORIGINAL CLASS OF RED LUMINOPHORS
16:30–16:45	OL	Starikov A.G.	ORGANIC SPIN SWITCHES: COMPUTATIONAL MODELING
16:45–17:00	OL	Budyka M.F.	MECHANISM OF THE REVERSIBLE REACTION OF [2+2]-PHOTOCYCLOADDITION: FORWARD CONCERTED REACTION ACCORDING TO THE WOODWARD-HOFFMANN RULES AND REVERSE STEPWISE CYCLE-OPENING REACTION ACCORDING TO THE PREDISSOCIATION MECHANISM
17:00–17:15	OL	Mirochnik A.G.	MOLECULAR DESIGN AND FORMATION OF LUMINESCENT MECHANO- AND CHEMOSENSORY PROPERTIES OF BORON AND LANTHANIDE COMPLEXES
17:15–17:30	OL	Potapov A.S.	SENSOR PROPERTIES OF LUMINESCENT COORDINATION POLYMERS WITH LIGANDS – DERIVATIVES OF 2,1,3-BENZOCHALCOGENADIAZOLES

October 10

SECTION 1

17:30–17:45	OL	Klimochkin Yu.N.	OXIDATIVE TRANSFORMATIONS OF POLYSUBSTITUTED FURANS – A NEW STRATEGY FOR THE SYNTHESIS OF STRUCTURE DIVERSIFIED GABA ANALOGUES
17:45–18:00	OL	Khursan S.L.	AROMATIC NITROSOOXIDES: PHYSICO-CHEMICAL PROPERTIES AND REACTIVITY
18:00–18:15	OL	Chukicheva I.Yu.	ALKYLATION OF PHENOLS AND ANILINE BY TERPENOIDS – A METHOD FOR OBTAINING NEW SUBSTANCES
18:15–18:30	OL	Sedov I.A.	NANOHETEROGENEOUS STRUCTURE OF LIQUIDS AND METHODS OF ITS CHARACTERIZATION
18:30–18:45	OL	Talanov V.M.	PHASE TRANSITIONS AND EMERGENT PHENOMENA IN QUANTUM MATERIALS WITH PYROCHLORE SUBLATTICES
18:45–20:00			Poster session

October 11

SECTION 1

Hall Lomonosov

Chair: Fedin V.P., Fershtat L.L.

9:00–9:30	KL	Antipov E.V.	NOVEL ELECTRODE MATERIALS FOR METAL-ION BATTERIES
9:30–10:00	IL	Oganov A.R.	PREDICTING AND RATIONALIZING NEW COMPOUNDS AND PHENOMENA
10:00–10:20	IL	Fedin M.V.	NEW PERSPECTIVES OF EPR SPECTROSCOPY IN STUDY AND DESIGN OF FUNCTIONAL NANOSTRUCTURES
10:20–10:35	OL	Kolker A.M.	DEEP EUTECTIC SOLVENTS AS CARBON DIOXIDE ABSORBENTS
10:35–10:50	OL	Dybtsev D.N.	METAL-ORGANIC COORDINATION POLYMERS FOR ADSORPTION AND SEPARATION OF LIGHT HYDROCARBONS
10:50–11:05	OL	Zvekov A.A.	ON THE APPLICATION OF THE CONJUGATED REACTIONS METHOD FOR ANTIOXIDANT ACTIVITY ESTIMATION
11:05–11:20	OL	Dementeva O.V.	SURFACTANT ASSOCIATES AS A TEMPLATE: NEW OPPORTUNITIES FOR SYNTHESIS AND FUNCTIONALISATION OF NANOPARTICLES
11:20–11:35	OL	Marakushev S.A.	MODERN DEVELOPMENT OF D.I. MENDELEEV'S CONCEPT: ORIGIN OF DEEP HYDROCARBONS AND THEIR ACCUMULATIONS IN THE EARTH'S CRUST
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS N.T. Kuznetsov, Full Member of RAS E.N. Kablov,
Full Member of RAS A.I. Rudskoy

Section 2

CHEMISTRY AND TECHNOLOGY OF MATERIALS

Time specified in the program,
includes report and answers to questions

October 8

SECTION 2

Hall Zelinsky

Chair: Kuznetsov N.T., Rudskoi A.I.

14:00–14:30	KL	Stolyarova V.L.	OXIDE SYSTEMS AND MATERIALS AT HIGH TEMPERATURES: THERMODYNAMICS, VAPORIZATION, MODELING
14:30–15:00	IL	Bulanov A.D.	CURRENT PROBLEMS OF MODERN CHEMISTRY OF HIGH-PURITY SUBSTANCES
15:00–15:20	IL	Karpov M.I.	MODERN MOLYBDENUM-BASED ALLOYS AND NEW PRODUCTION TECHNOLOGIES
15:20–15:40	IL	Malygin A.A.	CHEMICAL NANOTECHNOLOGY OF MOLECULAR LAYERING: FROM BIRTH TO WIDE INDUSTRIAL IMPLEMENTATION
15:40–16:00	IL	Voloshin Ya.Z.	NEW GENERATION OF MONOATOMIC CLATHROCHELATE CATALYSTS AND HYBRID ORGANO-INORGANIC CATALYTIC MATERIALS BASED ON THEM FOR HIGH-PURITY HYDROGEN AND SYNGAS PRODUCTION
16:00–16:30			Coffee-break

Hall Zelinsky

Chair: Voloshin Ya.Z., Sevostyanov M.A.

16:30–16:45	OL	Korenev S.V.	COMPLEX SALTS CONTAINING PLATINUM (PALLADIUM) AND METALS FROM GROUPS 5 AND 6 OF THE PERIODIC TABLE - PROMISING PRECURSORS FOR NANOSCALE METAL AND METAL-OXIDE SYSTEMS
16:45–17:00	OL	Lavrenova L.G.	STUDY OF SPIN CROSSOVER IN IRON(II) COMPLEXES WITH POLYNITROGENIC LIGANDS
17:00–17:15	OL	Vashurin A.S.	CATALYTIC SYSTEMS BASED ON FRAMEWORK STRUCTURES FOR RSH TO DISULFIDES COUPLING PROCESSES
17:15–17:30	OL	Kovalchukova O.V.	COMPLEX COMPOUNDS OF METALS WITH ORGANIC LIGANDS AS PRECURSORS OF NANO-SIZED OXIDE CATALYSTS

October 8

SECTION 2

17:30–17:45	OL	Usoltsev A.N.	HALIDE COMPLEXES OF BISMUTH AND ANTIMONY: SYNTHESIS, STRUCTURE AND PROPERTIES
17:45–18:00	OL	Faizullin B.A.	NANOSIZED PARTICLES ENGINEERED FROM CU(I) COMPLEXES WITH CYCLIC P,N-LIGANDS FOR INTRACELLULAR ROS GENERATION
18:00–18:15	OL	Akhmadeev B.S.	NANOPARTICULATE CONTRAST AGENTS BASED ON MN(II) AND HEXARENIIUM CLUSTERS: EFFECT OF MORPHOLOGY OF PARTICLES AND THEIR COATING ON CONTRASTING ORGANS AND TISSUE
18:15–18:30	OL	Yambulatov D.S.	NEW TRANSITION METAL COORDINATION POLYMERS WITH DIIMINE AND DIAMINE LIGANDS: SYNTHESIS, STRUCTURE AND PROPERTIES
18:30–18:45	OL	Cherkasova T.G.	STRUCTURES OF BIMETALLIC LANTHANIDE(III)-CHROMIUM(III) COMPLEXES WITH THERMOCHROMIC PROPERTIES

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Chair: Malygin A.A., Spirin M.G.

16:30–16:45	OL	Steblevskaya N.I.	LUMINESCENT MATERIALS BASED ON ORTHOBORATES AND METABORATES OF RARE EARTH ELEMENTS
16:45–17:00	OL	Retivov V.M.	GENERALIZED TECHNOLOGY FOR PRODUCING INORGANIC OPTICALLY ACTIVE MATERIALS
17:00–17:15	OL	Tikhonov G.V.	LIQUID LASER MEDIA BASED ON CARBON TETRACHLORIDE
17:15–17:30	OL	Averkina A.S.	HYBRID POWDER MATERIALS AgI-SiO ₂ : PROMISING REAGENTS FOR ARTIFICIAL PRECIPITATION TECHNOLOGIES
17:30–17:45	OL	Bezrukov A.N.	ANISOTROPIC LUMINESCENT MEDIA IN MICROFLUIDIC CHANNELS: CONTROL OF ORIENTATION AND OPTICAL BEHAVIOR

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17:45–18:00	OL	Komendo I.Yu.	LIGHT LITHIUM-CONTAINING SCINTILLATORS FOR NEUTRON DETECTION
18:00–18:15	OL	Nikolenko L.M.	DIFFERENT SCENARIOS OF LUMINESCENCE BEHAVIOR IN THE ENSEMBLE OF Mn-DOPED InP COLLOIDAL QUANTUM DOTS
18:15–18:30	OL	Semencha A.V.	FUSIBLE CHALCOGENIDE GLASS - PROMISING MATERIAL FOR CREATION OF OPTICAL COMPONENTS FOR NIR, SWIR AND NWIR
18:30–18:45	OL	Kuznetsov S.V.	HIGH TRANSPARENT CERAMICS BASED ON YTTRIUM-SCANDIUM-ALUMINUM GARNETS DOPED WITH RARE-EARTH ELEMENTS

Hall Nesmeyanov

Chair: Kharanzhevskii E.V., Savilov S.V.

16:30–16:45	OL	Blatov V.A.	GEOMETRICAL-TOPOLOGICAL APPROACHES TO MODELING CRYSTALLINE SUBSTANCES WITH SPECIFIED PROPERTIES
16:45–17:00	OL	Kovalev D.Yu.	STRUCTURE AND PHASE COMPOSITION OF MECHANOSYNTHESISED HIGH ENTROPY ALLOY CoCrFeNiTi AT LONG-TERM HEATING
17:00–17:15	OL	Drozdov A.A.	STRUCTURE FEATURES OF CAST Ni ₃ Al BASED INTERMETALLIC ALLOYS.
17:15–17:30	OL	Bykov V.A.	THE THERMOPHYSICAL PROPERTIES OF Co-CrFeNi HIGH-ENTROPY ALLOY: THE IMPACT OF CHEMICAL SHORT-RANGE ORDER
17:30–17:45	OL	Kolosov V.N.	DEVELOPMENTS OF ICT KSC RAS IN THE FIELD OF TECHNOLOGY OF TANTALUM CAPACITOR POWDERS
17:45–18:00	OL	Likhanov M.S.	CHEMICAL STABILIZATION OF HIGH-PRESSURE INTERMETALLIC COMPOUNDS AS A PATH TO THE SEARCH OF NEW FUNCTIONAL MATERIALS
18:00–18:15	OL	Sanin V.V.	INFLUENCE OF TECHNOLOGY FOR PRODUCING ME-HYDRIDE ALLOYS AB&AB ₅ -TYPES ON HYDROGEN SORPTION PROPERTIES

18:15–18:30	OL	Slautin O.V.	STRUCTURE AND PROPERTIES OF LAYERED METAL-INTERMETALLIDE COMPOSITES OF THE Ti-Fe SYSTEM
18:30–18:45	OL	Fedoraev I.I.	LAVES PHASES IN THE FCC-COBALT ALLOYS DISPERSIVELY HARDENED BY Co ₃ Nb AND Co ₃ Ta PARTICLES
18:30–20:00	Poster session		

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Hall Zelinsky

Chair: Kablov E.N., Stolyarova V.L.

14:00–14:30	KL	Rempel A.A.	FUNCTIONAL HIGH-ENTROPY MATERIALS
14:30–15:00	IL	Gnedekov S.V.	COMPOSITE COATINGS FORMED ON MAGNESIUM ALLOYS BY IMPREGNATION OF THE PEO-LAYERS WITH FLUOROORGANIC COMPOUNDS
15:00–15:20	IL	Oryshchenko A.S.	MODERN MATERIALS AND TECHNOLOGIES IN SHIPBUILDING AND NUCLEAR POWER ENGINEERING
15:20–15:40	IL	Rumyantseva M.N.	NANOCRYSTALLINE OXIDE MATERIALS FOR SEMICONDUCTOR GAS SENSORS FOR DETECTING BIOMARKERS IN EXHALED AIR
15:40–16:00	IL	Almyasheva O.V.	LOW TEMPERATURE CHEMISTRY OF REFRACTORY OXIDES
16:00–16:30			Coffee-break

Hall Zelinsky

Chair: Retivov V.M., Parfenova L.V.

16:30–16:45	OL	Spirin M.G.	LONG-CHAIN AMINES AS STABILIZING LIGANDS FOR COLLOIDAL QUANTUM DOTS
16:45–17:00	OL	Menshchikov I.E.	DEVELOPMENT OF NEW FUNCTIONAL NANOPOROUS ADSORBENTS USING MACHINE LEARNING METHODS: FROM MODELS TO SYNTHESIS AND CHEMICAL PROCESSES
17:00–17:15	OL	Saveleva A.S.	DEVELOPMENT OF GRANULAR SORBENTS AgLiLSX FOR SEPARATION OF AIR AND PRODUCTION OF OXYGEN
17:15–17:30	OL	Bulychev N.A.	FABRICATION OF COMPOSITE MATERIALS WITH METAL OXIDE NANOPARTICLES SYNTHESIZED IN PLASMA DISCHARGE UNDER ULTRASONIC ACTION
17:30–17:45	OL	Levchenko L.M.	OXIDIZED MESOPOROUS CARBON MATERIALS BASIS FOR OBTAINING SELECTIVE SORBENTS
17:45–18:00	OL	Skripachev I.V.	IMPURITY ABSORPTION IN AVBVI GLASSES FOR FIBER OPTICS
18:00–18:15	OL	Karacharov A.A.	SYNTHESIS OF NEW COMPOSITE NANOMATERIALS BY IMMOBILIZING Au NANOPARTICLES ON THE SURFACE OF SYNTHETIC VALLERIITES AND STUDYING THEIR PHOTOCATALYTIC PROPERTIES

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18:15–18:30	OL	Drozd D.D.	CDZNSES QUANTUM DOTS: REPRODUCIBLE FABRICATION AND CONTROL OF THE OPTICAL PROPERTIES
18:30–18:45	OL	Vorozhtsov V.A.	MASS SPECTROMETRUC STUDY OF VAPORIZATION PROCESSES AND THERMODYNAMIC PROPERTIES IN THE CS ₂ O-AL ₂ O ₃ SYSTEM AT HIGH TEMPERATURES

Hall Kurnakov

Chair: Rumyantseva M.N., Golubeva O.Yu.

16:30–16:45	OL	Bolbasov E.N.	FLOURPOLYMER MATERIALS AND DEVICES FOR RECONSTRUCTIVE SURGERY
16:45–17:00	OL	Koroleva M.S.	INFLUENCE OF DOPANT ON THE CONDUCTIVITY OF SUBSTITUTED BISMUTH NIOBATES WITH A PYROCHLORE-TYPE STRUCTURE
17:00–17:15	OL	Buzanov G.A.	PHASE EQUILIBRIA IN THE Li-Mn-Eu-O SYSTEM: THE CONCENTRATIONAL TETRAHEDRON
17:15–17:30	OL	Mateishina Yu.G.	RESEARCH OF THE TRANSPORT PROPERTIES OF COMPOSITES BASED ON SUBSTITUTED AMMONIUM TETRAFLUOROBORATES AND NANODIAMONDS
17:30–17:45	OL	Ivanov I.L.	DIFFUSION AND SURFACE EXCHANGE OF OXYGEN AND WATER IN PEROVSKITE-LIKE COMPLEX OXIDES
17:45–18:00	OL	Morozov A.V.	STUDY OF CHEMICAL COMPATIBILITY OF GALLZO SOLID ELECTROLYTE AND HIGH-ENERGY DENSITY CATHODES BASED ON LI-RICH LAYERED OXIDES
18:00–18:15	OL	Saenko E.V.	STRUCTURAL MODIFICATION OF MANGANESE OXIDES (III, IV) DURING SYNTHESIS OF SELECTIVE SORBENTS
18:15–18:30	OL	Tarasova N.A.	LAYRED PEROVSKITES BASED ON BaLaInO ₄ AS PROMISING MATERIALS FOR ELECTROCHEMICAL DEVICES IN DISTRIBUTED ENERGY

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Chair: Blatov V.A., Mustafina A.R.

16:30–16:45	OL	Kharanzhevskii E.V.	CHEMICAL-PHYSICAL PRINCIPLES OF WEAR ELIMINATION DURING SLIDING FRICTION WITHOUT LUBRICATION
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16:45–17:00	OL	Gavrilova N.N.	SYNTHESIS OF MOLYBDENUM, TUNGSTEN, AND VANADIUM POLYOXOMETALLATE DISPERSIONS FOR CATALYTIC APPLICATION
17:00–17:15	OL	Yurev A.A.	FEATURES OF THE STRUCTURE OF THE BORON-OXYGEN GRID IN THE MELT $x\text{Na}_2\text{O}-(1-x)\text{B}_2\text{O}_3$ BASED ON AB INITIO MOLECULAR DYNAMICS DATA
17:15–17:30	OL	Likhatskii M.N.	NEW TWO-DIMENSIONAL MIXED-LAYER SULFIDE-HYDROXIDE MATERIALS: SYNTHESIS ADVANCES, FEATURES, PROSPECTIVE APPLICATIONS
17:30–17:45	OL	Adamchik S.A.	PREPARATION OF HIGH-PURITY ISOTOPICALLY ENRICHED MONOSILANES AND MONOGERMANES AND STUDY OF THEIR IMPURITY COMPOSITION
17:45–18:00	OL	Krasnikov D.V.	PREPARATION OF SINGLE LAYER GRAPHENE MONOCRYSTALS BY BOLUAR REACTION
18:00–18:15	OL	Gubanova N.N.	SYNTHESIS AND RESEARCH OF FUNCTIONAL MATERIALS BASED ON PALLADIUM NANOPARTICLES
18:15–18:30	OL	Kuchkaev A.M.	NEW APPROACHES TO THE FUNCTIONALIZATION OF FEW-LAYER BLACK PHOSPHORUS WITH ORGANIC SUBSTRATES AND COVALENT P-C BOND FORMATION
18:30–20:00			Poster session

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Hall Zelinsky

Chair: Rempel A.A., Gnedenkov S.V.

14:00–14:30	KL	Kuznetsov A.N.	STRATEGIES TOWARDS OBTAINING NOVEL GROUP 10 METAL-BASED INTERMETALLICS WITH COMPLEX ARCHITECTURES
14:30–15:00	IL	Makarov A.V.	ADVANCED TECHNOLOGIES OF HARDENING AND REPAIR OF METAL SURFACES FOR ENSURING TECHNOLOGICAL SOVEREIGNTY OF THE RUSSIAN FEDERATION IN METALLURGY AND MACHINE BUILDING
15:00–15:20	СП	ADVIN company	DESKTOP DEVICES WITH EXTENDED FUNCTIONALITY FROM ADVIN - TREND OR NEW TECHNOLOGIES?
15:20–15:40	IL	Tolstoi V.P.	LAYER-BY-LAYER CHEMICAL ASSEMBLY OF NANOMATERIALS INVOLVING REAGENT SOLUTIONS: FROM THE FIRST EXPERIMENTS TO PRACTICAL APPLICATION
15:40–16:00	IL	Savilov S.V.	PHYSICO-CHEMISTRY OF CELLULOSE-BASED NANOSTRUCTURES
16:00–16:30			Coffee-break

Hall Zelinsky

Chair: Tolstoi V.P., Korenev S.V.

16:30–16:45	OL	Golubeva O.Yu.	NANOARCHITECTONICS OF LAYERED SILICATES AS A BASIS FOR THE CREATION OF NEW FUNCTIONAL MATERIALS
16:45–17:00	OL	Shcherbakova G.I.	ELEMENTOXANE ALUMOXANES – PRECURSORS OF HIGH-HEAT-RESISTANT CERAMIC COMPOSITES
17:00–17:15	OL	Mashkovtsev M.A.	TECHNOLOGIES FOR PRODUCING POWDER AND CERAMIC MATERIALS BASED ON ZIRCONIUM DIOXIDE FOR AIRCRAFT ENGINE BUILDING, ENERGY AND MEDICINE
17:15–17:30	OL	Kurlov A.S.	PECULIARITIES OF PRODUCTION OF CERAMICS FROM NANOCRYSTALLINE POWDERS OF TRANSITION METAL CARBIDES
17:30–17:45	OL	Markov M.A.	A PROMISING TECHNOLOGY FOR PRODUCING PRODUCTS OF COMPLEX SHAPE FROM HEAT-RESISTANT CERAMIC MATERIAL BASED ON SiC

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17:45–18:00	OL	Shishkin R.A.	COMPLEX PEROVSKITE OXIDES AS A PROSPECTIVE THERMAL BARRIER COATINGS
18:00–18:15	OL	Valeeva A.A.	PRODUCTION OF NIOBIUM NANOCRYSTALLINE CARBIDE BY ELECTROCHEMICAL METHOD
18:15–18:30	OL	Istomina E.I.	CARBOSILICOTHERMAL SYNTHESIS OF SILICON-CONTAINING MAX PHASES

Hall Kurnakov

Chair: Emelyanenko A.M., Kovalchukova O.V.

16:30–16:45	OL	Mustafina A.R.	DEVELOPMENT OF CONTRAST AND THERAPEUTIC AGENTS BY INTRODUCING PARAMAGNETIC MANGANESE(II) IONS INTO SILICA NANOPARTICLES
16:45–17:00	OL	Parfenova L.V.	BIOACTIVE ORGANIC COATINGS FOR METAL IMPLANTS
17:00–17:15	OL	Sevostyanov M.A.	PROSPECTS FOR THE USE OF TITANIUM ALLOYS FOR THE MANUFACTURE OF MEDICAL IMPLANTS
17:15–17:30	OL	Knotko A.V.	APPLICATION OF ATOMISTIC CALCULATIONS FOR VARIOUS CA CONTAINING PHOSPHATES
17:30–17:45	OL	Goldberg M.A.	MESOPOROUS HYDROXYAPATITE POWDERS
17:45–18:00	OL	Evdokimov P.V.	PERSONALISED HETEROGENEOUS-STRUCTURED OSTEOINDUCTIVE BIOCERAMIC BONE-GRAFTS OF COMPLEX CHEMICAL COMPOSITION AND ARCHITECTURE BASED ON HEAVILY-DOPED STABILIZED GLASERITE-LIKE PHASES
18:00–18:15	OL	Suslova E.V.	NEW LN ₃₊ BASED CONTRAST AGENTS FOR PHOTON-COUNTING COMPUTED TOMOGRAPHY
18:15–18:30	OL	Dubinets N.O.	MULTISCALE MODELING OF THE STRUCTURE AND PROPERTIES OF LAYERS AND INTERFACES IN OLED

Hall Nesmeyanov

Chair: Almyasheva O.V., Vashurin A.S.

16:30–16:45	OL	Emelyanenko K.A.	FABRICATION OF EXTREME WETTABILITY COATINGS FOR CORONA DISCHARGE LOSSES REDUCTION
16:45–17:00	OL	Dyachkova T.P.	COMPOSITE MATERIALS BASED ON HYBRID CARBON NANOSTRUCTURES

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17:00–17:15	OL	Lezhnin N.V.	SOLID-STATE FRICTION STIR BASED METAL ADDITIVE TECHNOLOGIES
17:15–17:30	OL	Mukanov S.K.	PHASE FORMATION BY ELECTROSPARK TREATMENT WITH FUSIBLE ELECTRODES
17:30–17:45	OL	Shapagina N.A.	FORMATION OF INHIBITED POLYMER FILMS ON DIFFERENT CONSTRUCTION METALS BY CATHODETIC DEPOSITION
17:45–18:00	OL	Danilov E.A.	GRAPHENE-LIKE MATERIALS VIA ULTRASONIC TREATMENT OF NATURAL GRAPHITE SUSPENSIONS
18:00–18:15	OL	Sheremet E.S.	APPLICATION OF LASER PROCESSING FOR FABRICATION OF BIOCOMPATIBLE/BIODEGRADABLE FLEXIBLE ELECTRONICS
18:15–18:30	OL	Lazoryak B.I.	FERROELECTRICAL AND NONLINEAR OPTICAL PROPERTIES OF VANADATE-NIOBATES
18:30–20:00			Poster session

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SECTION 2

Hall Zelinsky

Chair: Kuznetsov A.N., Bulanov A.D.

9:00–9:30	KL	Shevelkov A.V.	DEVELOPMENT OF ENVIRONMENTALLY FRIENDLY THERMOELECTRIC MATERIALS BASED ON COMPLEX COPPER SULFIDES
9:30–10:00	IL	Sinebryukhov S.L.	ANODE MATERIALS BASED ON COPPER-DOPED SODIUM TRITITANATE WITH A HIERARCHICAL STRUCTURE FOR SODIUM-ION BATTERIES
10:00–10:30	IL	Simonenko E.P.	PROMISING ULTRAHIGH-TEMPERATURE CERAMIC MATERIALS
10:30–11:00	IL	Emelyanenko A.M.	DEVELOPMENT OF TECHNOLOGY AND CREATION OF MATERIALS TO COMBAT THE SPREAD OF BACTERIAL INFECTIONS AND THEIR TESTING IN A HOSPITAL CONDITION

Hall Zelinsky

Chair: Shevelkov A.V., Makarov A.V.

11:00–11:15	OL	Kozlov I.A.	PROBLEMS OF IMPORT SUBSTITUTION OF FUNCTIONAL MATERIALS IN THE NATIONAL AIRCRAFT INDUSTRY
11:15–11:30	OL	Krasilin A.A.	MULTIFUNCTIONAL HYDROSILICATE NANOSCROLLS
11:30–11:45	OL	Maslova M.V.	SORBENT BASED ON ALUMINUM HYDROXIDE FOR SELECTIVE EXTRACTION OF LITHIUM FROM AQUEOUS MEDIA WITH HIGH SALINITY
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS K.V. Grigorovich,
Corresponding Member of RAS O.V. Zayakin

Section 3

PHYSICO-CHEMICAL BASES OF METALLURGICAL PROCESSES

Time specified in the program,
includes report and answers to questions

October 8

SECTION 3

Hall Bardin

Chair: Grigorovich K.V., Sheshukov O.Yu.

14:00–14:30	KL	Grigorovich K.V.	MODERN METHODS OF CONTROL AND ADJUSTMENT OF STEEL PRODUCTION TECHNOLOGIES
14:30–14:50	IL	Sheshukov O.Yu.	FORMATION OF A RATIONAL SLAG COMPOSITION IN THE LADLE-FURNACE UNIT IN ORDER TO IMPROVE DESULFURIZATION AND REDUCE THE CONSUMPTION OF SLAG-FORMING MATERIALS DEPENDING ON THE STEEL GRADE
14:50–15:10	IL	Dagman A.I.	INFLUENCE OF MICROALLOYING ELEMENTS ON PHASE PRECIPITATION DURING THERMAL DEFORMATION OF HIGH-STRENGTH LOW-CARBON STEELS
15:10–15:30	IL	Kudashov D. V.	MATERIALS SCIENCE APPROACH TO THE DEVELOPMENT OF NEW TECHNOLOGIES AND STEELS FOR PIPE PRODUCTION
15:30–15:50	IL	Muntin A.V.	TECHNOLOGICAL ASPECTS OF PRODUCTION OF STEEL STRIP OF VARIOUS SECTIONS AT FOUNDRY-ROLLING COMPLEXES
15:50–16:15			Coffee-break

Hall Bardin

Chair: Dagman A.I., Muntin A.V.

16:15–16:30	OL	Somov S.A.	MODERN TECHNOLOGIES OF METAL SMELTING WITH TVO IN HEAVY-DUTY ARC STEELMAKING FURNACES
16:30–16:45	OL	Mikhailova L.Yu.	PHYSICAL-CHEMICAL AND TECHNOLOGICAL BASICS OF MELTING SEMI-PRODUCTS IN ARC STEEL MELTING FURNACE UNDER MAGNESIA SLAG
16:45–17:00	OL	Metelkin A.A.	DETERMINATION AND STUDY OF THE MAIN DIRECTIONS FOR THE REMOVAL OF CARBON FROM THE MELT IN A CIRCULATING VACUUM UNIT
17:00–17:15	OL	Murysev V.A.	INDUSTRIAL STUDIES OF DEEP DESULFURIZATION OF STEEL PIPE GRADES IN THE CONDITIONS OF THE FOUNDRY AND ROLLING COMPLEX OF VSW
17:15–17:30	OL	Upolovnikova A.G.	REM OXIDES AND THEIR INFLUENCE ON THE PHYSICAL AND CHEMICAL PROPERTIES OF LADLE METALLURGY SLAG

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17:30–17:45	OL	Katolikov V.D.	INFLUENCE OF THE QUALITY OF CALCIUM-CONTAINING WIRE FILLER ON THE CONTENT AND COMPOSITION OF OXIDE NON-METAL INCLUSIONS IN THE PRODUCTION OF HIGH-CARBON STEEL
17:45–18:00	OL	Nikitin M.S.	IMPROVEMENT OF STEEL MODIFYING TECHNOLOGY IN OUT-OF-FURNACE PROCESSING
18:00–18:15	OL	Khoroshilov A.D.	THERMODYNAMIC MODELING OF THE PROCESS OF MODIFICATION OF NON-METALLIC INCLUSIONS WITH CALCIUM IN LOW-ALLOY STEEL DEOXIDIZED WITH ALUMINUM
18:15–18:30	OL	Shartdinov R.R.	PHYSICO-CHEMICAL PROPERTIES OF DESULFURIZATION PERIOD SLAGS OF THE AOD PROCESS
18:30–18:45	OL	Kel I.N.	THE USING BORON-CONTAINING MATERIALS IN THE SMELTING OF STAINLESS STEEL BY THE AOD PROCESS
18:30–20:00			Poster session

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SECTION 3

Hall Bardin

Chair: Smirnov L.A., Efron L.I.

14:00 –14:30	KL	Elanskii D.G.	BEHAVIOUR OF CHEMICAL ELEMENTS DURING STEEL MELTING IN ARC STEEL FURNACES
14:30 –14:50	IL	Efron L.I.	FORMATION OF STRUCTURE AND PROPERTIES OF WELDED JOINTS OF STEEL PIPES
14:50 –15:10	IL	Bazhin V.Yu.	FEATURES OF INTERMETALLIDE FORMATION WITH TRANSITION AND RARE-EARTH METALS
15:10 –15:30	IL	Chumanov I.V.	METAL REFINING AT ESR
15:30 –15:50	IL	Tkacheva O.	PHYSICOCHEMICAL PROPERTIES OF FLUORIDE MELTS, PROMISING FOR NUCLEAR POWER
15:50 –16:15			Coffee-break

Hall Bardin

Chair: Bazhin V.Yu., Chumanov I.V.

16:15 –16:30	OL	Vorozheva E.L.	MODELING AND SIMULATION OF METALLURGICAL PROCESSES IN THE DEVELOPMENT OF STEEL FOR CASING PIPES
16:30 –16:45	OL	Gamanyuk S.B.	INVESTIGATION OF THE EFFECT OF REFILLING THE MELT INTO THE PROFITABLE PART OF THE INGOT ON THE SOLIDIFICATION PROCESS AND STRUCTURE FORMATION
16:45 –17:00	OL	Zorin I.V.	FORMATION OF A LOW-ALLOYED SUBLAYER WITH A BAINITE STRUCTURE FOR SURFACING OF METALLURGICAL EQUIPMENT PARTS
17:00 –17:15	OL	Kirilichev M.V.	STUDY OF MICROLIQUATION HETEROGENEITY AND DISTRIBUTION OF CHEMICAL ELEMENTS IN LOW-ALLOYED STEEL INGOTS AND CONTINUOUSLY CAST BILLETS
17:15 –17:30	OL	Filatova D.G.	ANALYTICAL METHODS IN CHEMISTRY FOR SOLVING METALLURGICAL PRODUCTION PROBLEMS: CONTROL OF TECHNOLOGICAL PROCESSES AND PRODUCT QUALITY
17:30 –17:45	OL	Kuzmin E.V.	INVESTIGATION OF EXPLOSION WELDING TECHNOLOGY WITH SIMULTANEOUS EXPOSURE TO ULTRASOUND TO CREATE NEW COMPOSITE MATERIALS
17:45 –18:00	OL	Roldugina A.S.	THE RAPID HEATING EFFECT ON THE TEXTURE FORMATION IN THE HIGH-PERMEABILITY GRAIN-ORIENTED STEEL

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18:00 –18:15	OL	Zhitenev A.I.	MODELING OF FORMATION OF NON-METALLIC INCLUSIONS DURING THE MELTING OF DUPLEX STAINLESS STEELS IN AN OPEN INDUCTION FURNACE
18:15 –18:30	OL	Parygina S.A.	IMPROVING THE QUALITY OF CRYOGENIC STEEL
18:30 –18:45	OL	Grigoreva N.A.	NICKEL AND COBALT EXTRACTION FROM LEACHING SOLUTIONS OF OXIDIZED NICKEL ORES

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SECTION 3

Hall Bardin

Chair: Pyshmintsev I.Yu., Logacheva A.I.

14:00 – 14:30	KL	Pyshmintsev I. Yu.	THE EFFECT OF HYDROGEN ON THE MECHANICAL PROPERTIES OF PIPE STEELS
14:30 – 14:50	IL	Logacheva A.I.	MODERN DIRECTIONS OF POWDER METALLURGY
14:50 – 15:10	IL	Bazaleeva K.O.	INFLUENCE OF SLM PROCESS TECHNOLOGICAL PARAMETERS ON TEXTURE OF THE AUSTENITIC ALLOY 03Cr17Ni14Mo3
15:10 – 15:30	IL	Samokhin A.V.	SYNTHESIS AND PROCESSING OF TUNGSTEN-BASED POWDERS IN THERMAL PLASMA
15:30 – 15:50	IL	Babenko A.A.	PHYSICAL AND CHEMICAL BASICS OF CREATION OF INNOVATIVE TECHNOLOGICAL SOLUTIONS FOR THE PRODUCTION OF NEW GENERATION STRUCTURAL STEEL WITH A COMPLEX OF INCREASED PROPERTIES
15:50 – 16:15			Coffee-break

Hall Bardin

Chair: Samokhin A.V., Bazaleeva K.O.

16:15 – 16:30	OL	Umanskii A.A.	INVESTIGATION OF THE EFFICIENCY OF REFINING RAIL STEEL FROM NON-METALLIC INCLUSIONS WHEN VARYING THE PARAMETERS OF INERT GAS PURGING IN A STEEL LADLE
16:30 – 16:45	OL	Krylov A.P.	DEVELOPMENT OF TECHNOLOGY FOR THE USE OF BUCKET SLAG BRIQUETTES AS A PARTIAL REPLACEMENT FOR LIME IN STEEL SMELTING IN EAF
16:45 – 17:00	OL	Rigina L.G.	DEVELOPMENT OF A NEW METHODOLOGY FOR EXPERIMENTAL SMELTING
17:00 – 17:15	OL	Logachev I.A.	EVOLUTION OF THE STRUCTURE AND PROPERTIES OF MATERIAL FROM AJK ALLOY OBTAINED BY THE METHOD OF SELECTIVE LASER ALLOYING IN COMBINATION WITH POST-PROCESSING
17:15 – 17:30	OL	Fedorov A.S.	QUALITY MANAGEMENT OF DUPLEX STAINLESS STEELS
17:30 – 17:45	OL	Panin P.V.	METAL POWDER COMPOSITIONS OF HEAT-RESISTANT INTERMETALLIC ALLOYS BASED ON TITANIUM ALUMINIDES FOR ADDITIVE MANUFACTURING

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17:45 –18:00	OL	Ivanov I.A.	DEVELOPMENT OF HIGH-STRENGTH HEAT-RESISTANT MATERIAL FOR THE HALLS OF PROMISING VVER-SKD TYPE REACTORS
18:00 –18:15	OL	Em A.Yu.	FORMATION OF NON-METALLIC INCLUSIONS DURING BUCKET PROCESSING OF 08H18N10T GRADE STEEL
18:15 –18:30	OL	Beltyukov A.L.	TEMPERATURE AND CONCENTRATION DEPENDENCES OF VISCOSITY OF Fe-(B,Si) AND Co-(B,-Si) MELTS
18:30 –18:45	OL	Utkina K.N.	COMPOSITIONAL APPROACH TO PREVENT NITROGEN POROSITY OF AUSTENITIC-FERRITIC STEEL INGOTS

October 11

SECTION 3

Hall Bardin

Chair: Zayakin O.V., Manashev I.R.

9:00 –9:30	KL	Zayakin O.V.	PHYSICO-CHEMICAL FEATURES OF THE DEVELOPMENT NEW GENERATION OF FERROALLOYS
9:30 –10:00	IL	Dmitriev A.N.	PHYSICO-CHEMICAL AND THERMOPHYSICAL FOUNDATIONS OF DIGITAL TWINS OF AGLO-COKE-BLAST FURNACE PRODUCTION AND THEIR APPLICATION IN PRACTICE
10:00 –10:20	IL	Zagainov S.A.	IMPROVING THE QUALITY OF IRON ORE FEED-STOCK IS A PROMISING FOCUS AREA FOR RAISING THE EFFICIENCY OF BLAST FURNACE IRON-MAKING
10:20 –10:40	IL	Kozhukhov A.A.	STUDYING DIRECT PROCESSES RESTORATION OF IRON ORE CONCENTRATES IN A HYDROGEN ENVIRONMENT
10:40 –11:00	IL	Manashev I.R.	SHS TECHNOLOGY FOR PROCESSING DUSTS OF FERROALLOY PRODUCTION

Hall Bardin

Chair: Dmitriev A.N., Kozhukhov A.A.

11:00 –11:15	OL	Bigeev V.A.	SCHEME FOR PRODUCING FERRONICKEL AND CAST IRON FROM ORE OF THE SAKHARINSKOE DEPOSIT BY COMBINED CARBON-HYDROGEN METHOD
11:15 –11:30	OL	Sudin V.V.	ANALYSIS OF FRACTURES IN LOW-ALLOY STEELS USING COMPUTER VISION
11:30 –11:45	OL	Podusovskaya N.V.	INVESTIGATION OF THE LEAD AND ZINC SELECTIVE EXTRACTION POSSIBILITY FROM EAF DUST IN A REDUCING MEDIUM
11:45 –12:00	OL	Chikova O.A.	STRUCTURAL TRANSITIONS IN LIQUID COMPLEX CAST IRONS Fe-25Cr-3C AND TEMPERATURE TREATMENT OF THE MELT
12:00 –12:15	OL	Pogodin A.M.	DEVELOPMENT OF A MATHEMATICAL MODEL OF THE FORMATION OF NON-METALLIC INCLUSIONS DURING THE LADLE PROCESSING OF METAL

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12:15 –12:30	OL	Vyaznikova E.A.	STUDY OF THE INFLUENCE OF SINTER BASICITY ON STRUCTURE AND METALLURGICAL PROPERTIES
12:30 –14:00			Coffee-break, lunch

Section 4

**RESOURCE SAVING,
ENVIRONMENTAL SAFETY AND
CHEMICAL-TECHNOLOGICAL
PROCESSES IN CIRCULAR
ECONOMY**

Time specified in the program,
includes report and answers to questions

October 8

SECTION 4

Hall Ipatiev

Chair: Leontev L.I.

14:00–14:30	KL	Leontev L.I.	TASKS OF SCIENTIFIC AND TECHNOLOGICAL SUPPORT OF ENVIRONMENTALLY SAFE INTEGRATED PROCESSING OF MINERAL AND MAN-MADE RAW MATERIALS IN ORDER TO DEVELOP A CLOSED-CYCLE ECONOMY
14:30–14:50	IL	Zaouak Amira	APPLICATION OF RADIATION TECHNOLOGY IN WASTEWATER TREATMENT FOR ENVIRONMENTAL REMEDIATION
14:50–15:10	IL	Guseva T.V.	THE ROLE OF BEST AVAILABLE TECHNIQUES IN ENHANCING INDUSTRIAL RESOURCE EFFICIENCY AND ENVIRONMENTAL PERFORMANCE
15:10–15:30	IL	Startseva O.P.	METHODOLOGICAL FEATURES OF DEVELOPING REGIONAL PROGRAMS ON CIRCULAR ECONOMY IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT
15:30–15:50	IL	Lubyanoi D.A.	RESOURCE SAVING, ENVIRONMENTAL SAFETY, TECHNOLOGICAL PROCESSES AND CLOSED CYCLE ECONOMICS OF METALLURGICAL WASTE PROCESSING IN ACID INDUCTION FURNACES IN THE SIBERIAN REGION
15:50–16:15			Coffee-break

Hall Ipatiev

16:15–16:30	OL	Udoratina E.V.	INNOVATIVE TECHNOLOGY OF COMPLEX PROCESSING OF CONIFEROUS WOOD GREENS INTO BIOLOGICALLY ACTIVE SUBSTANCES AND MATERIALS APPLICABLE IN PLANT CULTIVATION, ANIMAL HUSBANDRY AND MEDICINE
16:30–16:45	OL	Shvetsova-Shilovskaya T.N.	SYSTEM OF ESTIMATION OF RELIABILITY INDICATORS OF PRODUCTION OBJECTS TURNOVER
16:45–17:00	OL	Potemkin D.I.	HYDROGEN PRODUCTION IN THE RUSSIAN FEDERATION: CURRENT STATE AND PROSPECTIVE TRENDS
17:00–17:15	OL	Ovsyannikov A.O.	CREATION OF THE CLOSED CYCLE OF ZINC CONSUMPTION IN RUSSIA
17:15–17:30	OL	Kudryavtseva T.Yu.	EXPERIMENTAL AND THEORETICAL ANALYSIS OF THE PROPERTIES OF AN ENVIRONMENTALLY FRIENDLY SORBENT BASED ON THE PROCESSING OF AGRICULTURAL WASTE

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SECTION 4

17:30–17:45	OL	Ozerova E.M.	SOLID MUNICIPAL WASTE IN A CYCLE ECONOMY
17:45–18:00	OL	Zheldakov D.Yu.	PHYSICO-CHEMICAL ENGINEERING OF DURABLE ENVIRONMENTALLY FRIENDLY CERAMIC BUILDING MATERIALS
18:00–18:15	OL	Shilova O.A.	DEVELOPMENT OF EFFECTIVE ENVIRONMENTALLY FRIENDLY ANTIFOULING COATINGS
18:15–18:30	OL	Erofeev V.T.	PHYSICO-CHEMICAL ENGINEERING OF POWDER-ACTIVATED COMPOSITES BASED ON MINERAL BINDERS

October 9

SECTION 4

Hall Ipatiev

Chair: Meshalkin V.P.

14:00–14:30	KL	Meshalkin V.P.	SCIENTIFIC BASIS OF ENGINEERING OF RESOURCE-ENERGY EFFICIENT LOW-WASTE DIGITALISED CHEMICAL-TECHNOLOGICAL SYSTEMS
14:30–14:50	IL	Skobelev D.O.	EVOLUTION OF TECHNOLOGIES: INCREASING INDUSTRIAL RESOURCE EFFICIENCY
14:50–15:10	IL	Kharuzin A.V.	MANAGEMENT OF SECONDARY RESOURCES IN THE OPERATIONS OF A METALLURGICAL ENTERPRISE
15:10–15:30	IL	Chistyakova T.B.	INNOVATIVE TECHNOLOGIES FOR DESIGNING DIGITAL INFORMATION MODELS OF CHEMICAL-TECHNOLOGICAL OBJECTS WITH WASTE RECYCLING
15:30–15:50	IL	Nikolaev Yu.A.	WORKING-OFF OF THE ANAMMOX BIOTECHNOLOGY FOR NITROGEN REMOVAL FROM WASTEWATER USING LABORATORY BIOREACTORS
	IL	Menshutina N.V.	SUPERCRITICAL TECHNOLOGIES FOR OBTAINING INNOVATIVE MATERIALS
15:50–16:15			Coffee-break

Hall Ipatiev

16:15–16:30	OL	Baeshov A.B.	CATALYTIC REDUCTION OF SELENATE IONS FROM WASTE SOLUTIONS AND WASTEWATER IN THE PRESENCE OF TITANIUM (IV) IONS
16:30–16:45	OL	Berberova N.T.	THE COMBINATION OF TECHNOLOGICAL PROCESSES FOR REMOVING SULFUR-CONTAINING WASTE FROM LIQUID FUELS AND THEIR CONVERSION INTO PRACTICALLY USEFUL ORGANIC SULFUR DERIVATIVES
16:45–17:00	OL	Tsvetnikov A.K.	CHEMICAL, TECHNOLOGICAL AND ENVIRONMENTAL ASPECTS OF THE PRODUCTION OF ULTRAFINE POLYTETRAFLUOROETHYLENE FROM FLUOROPLAST-4 WASTE AND ENERGY-RESOURCE SAVING MATERIALS BASED ON IT

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SECTION 4

17:00–17:15	OL	Averina Yu.M.	DEVELOPMENT OF MATHEMATICAL MODEL OF CLOSED WATER CIRCULATION SYSTEM FOR CHEMICAL PRODUCTION WASTEWATER
17:15–17:30	OL	Brodskii V.A.	THE USE OF EXTRACTION-ELECTROLYSIS TECHNOLOGY TO ISOLATE VALUABLE COMPONENTS FROM INDUSTRIAL WASTE AND POOR ORES
17:30–17:45	OL	Kozlovskii R.A.	POTENTIAL OF THE PRODUCTION OF L-LACTIC ACID AND ENVIRONMENTALLY SAFE CHEMICAL PRODUCTS BASED ON IT
17:45–18:00	OL	Dyubanov V.G.	THE MAIN DIRECTIONS OF THE RECYCLING OF THE WAELEZ SLAG FROM THE ELECTRIC ARC FURNACE DUST PROCESSING
18:00–18:15	OL	Yakubov R.N.	FORECASTING THE CHEMICAL-TECHNOLOGICAL PROCESS OF IN-SITU WATER SHUT-OFF IN OIL-PRODUCING WELLS THROUGH HYDRODYNAMIC MODELING
18:15–18:30	OL	Sokolova Yu.V.	RECYCLING OF SPENT LITHIUM-ION BATTERIES FOR HOUSEHOLD APPLIANCES AND ELECTRONIC DEVICES
18:30–20:00			Poster session

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SECTION 4

Hall Ipatiev

Chair: Meshalkin V.P.

14:00–14:30	KL	Buryak A.K.	THE METHODOLOGY OF CHROMATO – MASS-SPECTROMETRIC DIAGNOSTICS OF ENERGY EFFICIENCY AND ENVIRONMENTAL SAFETY OF CHEMICAL TECHNOLOGIES
14:30–14:50	IL	Lenchenkova L.E.	THEORETICAL AND EXPERIMENTAL JUSTIFICATION OF ENERGY AND RESOURCE EFFICIENT TECHNOLOGY FOR ENHANCING OIL RECOVERY FROM HIGH WATER CUT WELLS WITH ORGANO-HYBRID SEALING COMPOSITIONS
14:50–15:10	IL	Vasilev A.V.	SYSTEMATIZATION OF ECOLOGICAL CHARACTERISTICS OF POLYMER-INORGANIC COMPOSITES
15:10–15:30	IL	Moshev E.R.	ENGINEERING OF NATIONAL SOFTWARE FOR ENVIRONMENTAL SAFETY MANAGEMENT OF CHEMICAL INDUSTRIES
15:30–15:50	IL	Kolmakov A.G.	INNOVATIVE ENVIRONMENTALLY SAFE TITANIUM ALLOYS
15:50–16:15			Coffee-break

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16:15–16:30	OL	Shumova N.V.	INCUBATION OF CELLS IN BULK HYDROGEL WITH A NETWORK OF ARTIFICIAL MICROCHANNELS FOR OXYGEN SUPPLY AND CARBON DIOXIDE REMOVAL
16:30–16:45	OL	Kurdyumov V.R.	ZERO LIQUID DISCHARGE AT THE NON-FERROUS METALLURGY ENTERPRISE
16:45–17:00	OL	Naimanbaev M.A.	PROCESSING ZINC-CONTAINING DUSTS OF FERROUS METALLURGY WITH INDUSTRIAL PRODUCTS OF THE NON-FERROUS INDUSTRY – A PATH TO RESOURCE SAVING
17:00–17:15	OL	Bobkov V.I.	ENGINEERING OF ENERGY AND RESOURCE EFFICIENT ENVIRONMENTALLY SAFE CHEMICAL-TECHNOLOGICAL SYSTEM FOR PROCESSING WASTE ORE RAW MATERIALS
17:15–17:30	OL	Knyazev M.Yu.	CLOSED CYCLE TOLUENE PROCESSING IN CHEMICAL-TECHNOLOGICAL PROCESSES OF LOW-TONNAGE CHEMISTRY

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SECTION 4

17:30–17:45	OL	Prosvirkin S.P.	STUDIES OF THE PROCESS OF SMELTING CAST IRON IN A ROTARY-INCLINED FURNACE FROM IRON-CONTAINING WASTE FROM METALLURGICAL PRODUCTION
17:45–18:00	OL	Kulikova T.V.	PERSISTENT ORGANIC POLLUTANTS: PROBLEMS OF ENVIRONMENTAL POLLUTION AND TECHNOLOGICAL METHODS OF NEUTRALIZATION
18:00–18:15	OL	Fazullin D.D.	ENGINEERING OF HYDROGEN-AIR FUEL CELLS FOR ENVIRONMENTALLY SAFE VEHICLES
18:15–18:30	OL	Klimentenok G.G.	THE CONCEPT OF WASTE-FREE PROCESSING OF MINERAL AND MAN-MADE RAW MATERIALS OF THE NORTHERN URALS IN AN INTEGRATED MANNER
18:30–20:00			Poster session

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SECTION 4

Hall Ipatiev

Chair: Meshalkin V.P.

9:00–9:30	KL	Kozlov P.A.	PHYSICO-CHEMICAL FUNDAMENTALS, RESEARCH DEVELOPMENT AND IMPLEMENTATION OF RESOURCE-ENERGY-EFFICIENT ENVIRONMENTALLY SAFE WASTE PROCESSING WITH NON-FERROUS AND RARE METALS EXTRACTION
9:30–10:00	IL	Zharov V.S.	ALGORITHMIZATION OF THE PROCESS OF MANAGING THE DEVELOPMENT AND USE OF RESOURCE AND ENERGY-SAVING TECHNOLOGIES IN INDUSTRIAL PRODUCTION
10:00–10:20	IL	Vorotyntsev I.V.	THE ROLE OF MEMBRANE SEPARATION TECHNOLOGIES IN THE OIL AND GAS INDUSTRY IN THE CLOSED-CYCLE ECONOMY OF THE RUSSIAN FEDERATION
10:20–10:40	IL	Vinokurov E.G.	ЦИФРОВИЗИРОВАННЫЙ ПОДХОД К ВЫБОРУ ЭКОЛОГИЧЕСКИ-РАЦИОНАЛЬНЫХ ТЕХНОЛОГИЧЕСКИХ РАСТВОРОВ ДЛЯ НАНЕСЕНИЯ ЗАЩИТНО-ФУНКЦИОНАЛЬНЫХ ПОКРЫТИЙ
10:40–11:00	IL	Grechnikov F.V.	SCIENTIFIC BASIS OF METAL FORMING PROCESSES INTENSIFICATION BY CREATING AN OPTIMAL CRYSTALLOGRAPHIC STRUCTURE OF BLANKS DURING ROLLING

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11:00–11:15	OL	Aleinikova K.B.	FRAGMENTARY MODEL OF THE ATOMIC STRUCTURE OF AMORPHOUS MATERIALS
11:15–11:30	OL	Volkov A.V.	MEMBRANES FOR OIL REFINING AND PETROCHEMISTRY
11:30–11:45	OL	Voloshin A.I.	DEVELOPMENT AND IMPLEMENTATION OF "GREEN" INHIBITORS OF GAS HYDRATE FORMATION AT OIL FIELDS
11:45–12:00	OL	Mironov M.A.	MATERIALS WITH MOSAIC SURFACE FOR OIL SPILL RESPONSE
12:00–12:15	OL	Dyachkova S.G.	RESOURCE SAVING IN PETROLEUM FUEL TECHNOLOGY DUE TO THE INVOLVATION OF OIL REFINING AND PETROCHEMICAL BY-PRODUCTS

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SECTION 4

12:15–12:30	OL	Polyakova N.V.	CONTRIBUTION OF HIGH MOLECULAR NAPHTHENIC ACIDS TO THE FORMATION OF DEPOSITS IN OILFIELD EQUIPMENT
12:45–14:00			Coffee-break, lunch

Chairs – Full Member of RAS V.N. Parmon,
Corresponding Member of RAS A.L. Maximov

Section 5

CHEMISTRY OF FOSSIL AND RENEWABLE HYDROCARBON RESOURCES

Time specified in the program,
includes report and answers to questions

October 8

SECTION 5

Hall Butlerov

Chair: Kazakov M.A., Arutyunov V.S.

14:00–14:30	KL	Agabekov V.E.	NEW NANO-SIZED CATALYSTS FOR THE CONVERSION OF TERPENOIDS INTO PRODUCTS FOR VARIOUS FUNCTIONAL PURPOSE
14:30–14:50	IL	Yakovlev V.A.	CATALYTIC APPROACHES FOR PLANT BIOMASS PROCESSING
14:50–15:10	IL	Dementev K.I.	POTENTIAL OF BIOMASS AND POLYMER WASTE FOR THE PRODUCTION OF FUELS AND BASIC PETROCHEMICAL PRODUCTS
15:10–15:30	IL	Strizhak P.A.	SAF- AND LCAF-FUELS: CHALLENGES ACHIEVEMENTS
15:30–15:50	IL	Matveeva V.G.	CATALYTIC TRANSFORMATION OF PLANT BIOMASS COMPONENTS IN THE PRESENCE OF BIFUNCTIONAL SYSTEMS
15:50–16:15			Coffee-break

Hall Butlerov

Chair: Dementev K.I., Yakubov M.R.

16:15–16:30	OL	Kovalev V.V.	NEW NANO-SIZED CATALYSTS FOR THE CONVERSION OF TERPENOIDS INTO PRODUCTS FOR VARIOUS FUNCTIONAL PURPOSE
16:30–16:45	OL	Vutolkina A.V.	CATALYTIC APPROACHES FOR PLANT BIOMASS PROCESSING
16:45–17:00	OL	Peshnev B.V.	POTENTIAL OF BIOMASS AND POLYMER WASTE FOR THE PRODUCTION OF FUELS AND BASIC PETROCHEMICAL PRODUCTS
17:00–17:15	OL	Dzhabarov E.G.	SAF- AND LCAF-FUELS: CHALLENGES ACHIEVEMENTS
17:15–17:30	OL	Antonov S.A.	CATALYTIC TRANSFORMATION OF PLANT BIOMASS COMPONENTS IN THE PRESENCE OF BIFUNCTIONAL SYSTEMS
17:30–17:45	OL	Kuznetsov P.S.	STABILIZATION OF BIO-OIL FOR SUBSEQUENT CATALYTIC PROCESSING
17:45–18:00	OL	Guznyaeva M.Yu.	CHANGES IN OIL COMPOSITION DURING MODEL BIOOXIDATION PROCESSES BY AEROBIC MICROFLORA STRAINS

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SECTION 5

18:00–18:15	OL	Golubeva M.A.	CATALYSTS BASED ON TRANSITION METAL COMPOUNDS IN HYDRODEOXYGENATION RE-ACTIONS
18:15–18:30	OL	Voronov M.S.	CLUSTER OF PRODUCTION OF CHEMICALS BASED ON VEGETABLE OILS

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SECTION 5

Hall Butlerov

Chair: Agabekov V.E., Maksimov A.L.

14:00–14:30	KL	Kazakov M.O.	PROGRESS IN HYDROPROCESSING CATALYSTS FOR OIL REFINING
14:30–14:50	IL	Kapustin V.M.	CONTRIBUTION OF RUSSIAN SCIENTISTS TO THE DEVELOPMENT OIL REFINING TECHNOLOGIES
14:50–15:10	IL	Varfolomeev M.A.	IN-SITU UPGRADING AND ENHANCED OIL RECOVERY OF HEAVY OIL USING IN-SITU COMBUSTION PROCESS
15:10–15:30	IL	Yakubov M.R.	FEATURES OF ASPHALTENES AND RESINS COMPOSITION IN THE RESIDUAL PRODUCT OF VACUUM RESIDUE HYDROCRACKING AND PROSPECTS FOR ITS USE TO OBTAIN HIGH-MARGIN PRODUCTS
15:30–15:50	IL	Loktev A.S.	NEW CARBONATION-RESISTANT CATALYSTS FOR THE DRY REFORMING OF METHANE TO SYNTHESIS GAS
15:50–16:15			Coffee-break

Hall Butlerov

Chair: Gorbunov D.N., Varfolomeev M.A.

16:15–16:30	OL	Kozlov V.V.	COMPOSITIONS BASED ON THE PRINCIPLES OF “GREEN CHEMISTRY” TO INCREASE OIL RECOVERY OF DIFFICULT OIL RESERVES
16:30–16:45	OL	Kadiev Kh.M.	CHEMICAL PROCESSING OF POLYMER WASTE
16:45–17:00	OL	Stoporev A.S.	ENSURING FLOW ASSURANCE AND ENERGY STORAGE: HOW TO MANAGE GAS HYDRATE FORMATION?
17:00–17:15	OL	Romanova Yu.N.	RHEOLOGY OF OILFIELD WATER-IN-OIL EMULSIONS: FEATURES OF FLOW/BEHAVIOUR DEPENDING ON COMPOSITION AND TEMPERATURE
17:15–17:30	OL	Karpova T.R.	ETHYLENE HOMOLOGIZATION OVER POLY-FUNCTIONAL NI-MO-CONTAINING CATALYSTS
17:30–17:45	OL	Fakhretdinov R.N.	COMPETENCES OF EOR-S OFT LTD. IN CHEMICAL TECHNOLOGIES FOR ENHANCING OIL RECOVERY OF RESERVOIRS

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SECTION 5

17:45–18:00	OL	Ivashkina E.N.	IMPLEMENTATION AND APPLICATION OF DIGITAL TOOLS TO THE PRACTICE OF ENGINEERING ACTIVITIES AT OIL REFINING ENTERPRISES
18:00–18:15	OL	Saidentsal A.R.	NEW OIL-WETTING COMPOSITE FOR OIL PRODUCTION ON THE PRINCIPLE OF GREEN CHEMISTRY WITH APPLICATION OF DEEP EUTECTIC SOLVENTS AND SURFACTANTS
18:15–18:30	OL		

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SECTION 5

Hall Butlerov

Chair: Loktev A.S., Matveeva V.G.

14:00–14:30	KL	Arutyunov V.S.	FUNDAMENTAL FEATURES OF THE IGNITION OF METHANE- AND HYDROGEN-CONTAINING GASES AND THEIR EFFECT ON THE KNOCK RESISTANCE OF GAS FUELS
14:30–14:50	IL	Sinev M.Yu.	SYNTHESIS AND MODIFICATION OF CATALYSTS FOR PRODUCTION OF LOWER OLEFINS USING SUPERCRITICAL FLUID MEDIA
14:50–15:10	IL	Kulikova M.V.	PRODUCTION OF SYNTHETIC HYDROCARBONS FOR FUEL AND PETROCHEMICAL PURPOSES FROM BIOMASS
15:10–15:30	IL	Sedov I.V.	POSSIBILITIES OF REDUCTION OF CO ₂ EMISSION IN GAS-CHEMICAL PROCESSES
15:30–15:50	IL	Gorbunov D.N.	HYDROFORMYLATION: NOVEL CATALYSTS AND APPROACHES TO REALISATION
15:50–16:15			Coffee-break

Hall Butlerov

Chair: Sedov I.V., Yakovlev V.A.

16:15–16:30	OL	Magomedova M.V.	HYBRID ZEOLITE CATALYSTS FOR THE SYNTHESIS OF HYDROCARBONS WITH VARIOUS COMPOSITIONS
16:30–16:45	OL	Vosmerikov A.A.	DEHYDROGENATION OF PROPANE ON γ -Al ₂ O ₃ MODIFIED WITH MANGANESE
16:45–17:00	OL	Veselovskaya Zh.V.	MODERN APPROACHES TO CO ₂ CAPTURE USING LOW-TEMPERATURE COMPOSITE SORBENTS
17:00–17:15	OL	Afokin M.I.	DESIGN OF TECHNOLOGY FOR RECYCLING FLUE GASES OF GPU AND TPP TO SECONDARY ENERGY CARRIERS
17:15–17:30	OL	BorShch V.N.	SHS CATALYSTS FOR SELECTIVE CO ₂ HYDROGENATION TO HEAVY HYDROCARBONS
17:30–17:45	OL	Matieva Z.M.	ONE-STEP SYNTHESIS OF TRIPTANE-ENRICHED LIQUID HYDROCARBONS FROM CO ₂ И H ₂
17:45–18:00	OL	Petriev I.S.	DEVELOPMENT OF HIGH-PERFORMANCE MEMBRANE MATERIALS FOR STEAM REFORMING REACTORS

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SECTION 5

18:00–18:15	OL	Badmaev S.	ELECTROCHEMICAL EXTRACTION OF PURE HYDROGEN FROM METHANOL, DIMETHYL ETHER AND DIMETHOXYMETHANE STEAM REFORMING PRODUCTS
18:15–18:30	OL	Golubev O.V.	LOW-TEMPERATURE CONVERSION OF CO ₂ INTO VALUABLE PRODUCTS BY PLASMA CATALYSIS
18:30–20:00			Poster session

Chairs – Full Member of RAS Yu.A. Zolotov,
Corresponding Member of RAS V.P. Kolotov

Section 6

ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

Time specified in the program,
includes report and answers to questions

October 8

SECTION 6

Hall Vernadsky

Chair: Zolotov Yu.A.

14:00–14:30	KL	Bogomolov A.Yu.	NON-LABORATORY ANALYSIS USING OPTICAL MULTISENSOR SYSTEMS
14:30–14:50	IL	Goryacheva I.Yu.	APPLICATION OF LUMINESCENT SEMICONDUCTOR QUANTUM DOTS IN ANALYSIS
14:50–15:10	IL	Gruznov V.M.	THE SENSE OF SMELL OF ANIMALS AND INSECTS AS A GUIDELINE FOR THE DEVELOPMENT OF OLFACTORY TECHNOLOGIES
15:10–15:30	IL	Kuchmenko T.A.	NEW SENSORS FOR PERSONAL HEALTH DIAGNOSTICS
15:30–15:50	IL	Shaposhnik A.V.	TWO TYPES OF SENSOR DEVICES THAT ALLOW SELECTIVE ANALYSIS
15:50–16:20			Coffee-break

Hall Vernadsky

Chair: Kuchmenko T.A.

16:20–16:35	OL	Yuskina E.A.	CONTACTLESS CHEMICAL SENSOR FOR THE DETERMINATION OF INORGANIC CATIONS AND ANIONS
16:35–16:50	OL	Shuba A.A.	APPLICATION OF PIEZOSENSORS WITH POLYCOMPOSITE COATINGS FOR ASSESSMENT OF MICROBIOLOGICAL SAFETY OF MILK
16:50–17:05	OL	Gryazev I.P.	DEVELOPMENT OF A COLORIMETRIC SCALE FOR GRADATION-FREE ANALYSIS OF BIOLOGICAL FLUIDS USING OPTICAL SENSORS
17:05–17:20	OL	Skorobogatov E.V.	RECOGNITION OF WATER SAMPLES USING THE KINETIC FINGERPRINT METHOD
17:20–17:35	OL	Rusanova T.Yu.	CHEMOMETRIC METHODS IN SPECTROPHOTOMETRIC ANALYSIS
17:35–17:50	OL	Zhmaeva E.V.	A METHODOLOGICAL APPROACH TO DETERMINING THE ELEMENTAL COMPOSITION AND IDENTIFYING THE SOURCES OF SEDIMENTS FORMED DURING TECHNOLOGICAL PROCESSES AT OIL REFINING ENTERPRISES
17:50–18:05	OL	Nikitin P.I.	ULTRA-SENSITIVE RAPID METHODS FOR REGISTRATION OF TOXINS IN FOOD AND MARKERS OF CARDIO DISEASES IN SALIVA

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SECTION 6

18:05–18:20	OL	Vorobeva M.Yu.	DETERMINATION OF POROUS MATERIALS SORPTION CAPACITY BY OXYTHERMOGRAPHY METHOD
18:20–18:35	OL	Burmistrova N.A.	SORBENTS SPECIFIC TO ZEARALENONE BASED ON SILICA MODIFIED WITH MOLECULAR IMPRINTING POLYMERS
18:35–20:00			Poster session <i>Отв. Д.х.н. А.Ю. Богомолов</i>

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SECTION 6

Hall Vernadsky

Chair: Kolotov V.P.

14:00–14:30	KL	Buryakov I.A.	DETECTORS OF EXPLOSIVES: STATE OF THE ART
14:30–14:50	IL	Dzantiev B.B.	RAPID TEST SYSTEMS: NEW APPROACHES FOR DETECTING LOW- AND HIGH-MOLECULAR WEIGHT COMPOUNDS
14:50–15:10	IL	Viryus E.D.	CURRENT STATE OF SPORTS METABOLOMICS
15:10–15:30	IL	Temerdashev A.Z.	NEW DERIVATIZATION REAGENTS FOR HPLC-MS – ISSUES AND PERSPECTIVITIES
15:30–15:50	IL	Saveleva E.I.	BIOMONITORING OF THE IMPACT OF VOLATILE AROMATIC HYDROCARBONS ON HUMANS BY CHROMATO-MASS SPECTROMETRY METHODS
15:50–16:20			Coffee-break

Hall Vernadsky

Chair: Saveleva E.I.

16:20–16:35	OL	Terentev A.G.	STRUCTURAL-ANALYTICAL STUDIES USING RESONANT ELECTRON CAPTURE NEGATIVE ION MASS SPECTROMETRY
16:35–16:50	OL	Borisov R.S.	MONITORING OF CATALYTIC REACTIONS BY DESORPTION/IONIZATION MASS SPECTROMETRY
16:50–17:05	OL	Rodin I.A.	VOLATILE ORGANIC COMPOUNDS AND PROTEINS AS MARKERS OF IRRADIATION OF BIOLOGICAL OBJECTS
17:05–17:20	OL	Chuvashov A.A.	DIFFICULTIES IN INTERPRETING THE RESULTS OF STUDIES ON HIGHLY GLYCOSYLED PROTEINS
17:20–17:35	OL	Kudryavtsev A.S.	ADAPTATION OF A LOW GAS LOAD MASS SPECTROMETRIC ION SOURCE FOR CONNECTION WITH MULTICAPILLARY COLUMNS
17:35–17:50	OL	Ishchenko A.A.	ULTRAFAST TRANSMISSION ELECTRON MICROSCOPY AND DIFFRACTION: PROGRESS FROM SUBNANOSECOND LASER-INDUCED STRUCTURAL DYNAMICS TO FEMTOSECOND QUANTUM TOMOGRAPHY
17:50–18:05	OL	Pochivalov A.S.	LIQUID-LIQUID EXTRACTION INTO SUPRAMOLECULAR SOLVENTS

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SECTION 6

18:05–18:20	OL	Gorbovskaya A.V.	APPROACHES TO THE CREATION OF MIXED-MODE STATIONARY PHASES FOR LIQUID CHROMATOGRAPHY BASED ON POLYMERIC SUBSTRATES
18:20–18:35	OL		
18:35–20:00			Poster session <i>Отв. Д.х.н. Т.Ю. Русанова</i>

October 10

SECTION 6

Hall Vernadsky

Chair: Temerdashev Z.A.

14:00–14:30	KL	Kolotov V.P.	НОВЫЕ ПОДХОДЫ К ПРОБОПОДГОТОВКЕ И АНАЛИЗУ ГОРНЫХ ПОРОД, ПОЛ И БИОЛОГИЧЕСКИХ ОБРАЗЦОВ МЕТОДАМИ МС/АЭС-ИСП
14:30–14:50	IL	Komolova O.A.	NEW EXPRESS METHODS FOR ANALYSIS OF NON-METALLIC INCLUSIONS IN STEELS AND ALLOYS
14:50–15:10	IL	Chubarov V.M.	DEVELOPMENT OF X-RAY FLUORESCENCE METHOD FOR THE DETERMINATION OF THE VALENCE STATE AND SPECIATION OF ELEMENTS
15:10–15:30	IL	Medvedev N.S.	USING OF PRELIMINARY CONCENTRATION OF TRACE ELEMENTS AND NON-STANDARD METHODS OF SAMPLES INTRODUCING INTO THE EXCITATION AND IONIZATION SOURCES FOR ANALYSIS OF HIGH PURITY SUBSTANCES
15:30–15:50	IL	Labusov V.A.	GRAND OPTICAL SPECTROMETERS: A NEW INSTRUMENT FOR MEASURING ANALYTE MASS FRACTIONS
15:50–16:20			Coffee-break

Hall Vernadsky

Chair: Kartsova A.A.

16:20–16:35	OL	Zakharchenko E.A.	CARBON NANOMATERIALS: OPPORTUNITIES AND PROSPECTS OF USE FOR THE PRECONCENTRATION OF REE AND NOBLE METALS
16:35–16:50	OL	Drogobuzhskaya S.V.	INVESTIGATION OF THE ELEMENTAL COMPOSITION OF MINERALS AND FUNCTIONAL MATERIALS (LA-ICP-MS)
16:50–17:05	OL	Bukhbinder G.	DETERMINATION OF IMPURITIES IN COBALT AND NICKEL BY ICP-AES AFTER COPRECIPITATION WITH SCANDIUM HYDROXIDE
17:05–17:20	OL	Soloveva D.A.	COBALT PIGMENTS IN THE PAINTINGS OF C. MONET
17:20–17:35	OL	Firma «NKTs «LABTEST»	POSSIBILITIES OF NKTS “LABTEST” TO SUPPLY EQUIPMENT FOR ATOMIC EMISSION, MOLECULAR AND MASS SPECTROMETRY
17:35–17:50	OL	Maryutina T.A.	PHYSICAL FIELDS IN SAMPLE PREPARATION METHODS

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17:50–18:05	OL	Panchuk VV.	TWO IN ONE: ELEMENTAL ANALYSIS ON A MÖSSBAUER SPECTROMETER
18:05–18:20	OL	Elokhov A.M.	METAL IONS EXTRACTION BY IONIC LIQUIDS BASED ON IONIC SURFACTANTS
18:20–18:35	OL	Gromyko S.	EXTRACTION-CHROMATOGRAPHIC DETERMINATION OF ALKYLATED DIPHENYLAMINES IN MOTOR OILS
18:35–20:00			Poster session

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SECTION 6

Hall Vernadsky

Chair: Ermakov S.S.

9:00–9:30	KL	Pirogov A.V.	"MICROPLASTICS" AND "NANOPLASTICS": A NEW PROBLEM AND CHALLENGE IN ANALYTICAL CHEMISTRY
9:30–9:50	IL	Kozitsina A.N.	ELECTROCHEMICAL (BIO)SENSORS BASED ON SMALL ORGANIC MOLECULES FOR SOLVING SOME CURRENT PROBLEMS OF ECO-, BIO- AND PHARMACEUTICAL MONITORING
9:50–10:10	IL	Kirsanov D.O.	CONTRIBUTION OF CHEMOMETRICS TO GREEN ANALYTICAL CHEMISTRY
10:10–10:30	IL	Kokovkin V.V.	PLASTICIZED, PASTE AND METAL OXIDE FILM ELECTRODES IN IONOMETRY, VOLTAMMETRY AND ECOLOGY
10:30–10:50	IL	Shishov A.Yu.	AUTOMATION AND MINIATURIZATION OF CHEMICAL ANALYSIS USING DEEP EUTECTIC SOLVENTS

Hall Vernadsky

Chair: Kozitsyna A.N.

11:00–11:15	OL	Brzhezinskii A.S.	SEPARATION AND ANALYSIS OF NANOPARTICLES OF MOSCOW URBAN DUST FOR IDENTIFICATION OF THEIR ANTHROPOGENIC AND NATURAL SOURCES
11:15–11:30	OL	Bessonova E.A.	METABOLIC PROFILING OF BIOACTIVE SUBSTANCES IN NATURAL OBJECTS BY CHROMATOGRAPHY AND CAPILLARY ELECTROPHORESIS USING IONIC LIQUIDS
11:30–11:45	OL	Veselova I.A.	SENSING SYSTEMS BASED ON PLASMON NANOCOMPOSITES WITH CONTROLLED SPECTRAL AND RECOGNITION PROPERTIES IN THE ANALYSIS OF BIOLOGICAL SAMPLES AND SAMPLES OF ECOLOGICAL MONITORING
11:45–12:00	OL	PokhviShcheva N.V.	ION-SELECTIVE OPTICAL SENSORS: PRINCIPLES OF RESPONSE GENERATION AND TUNING RESPONSE CHARACTERISTICS
12:00–12:15	OL	Timofeeva I.I.	MICROEXTRACTION IN FOOD QUALITY CONTROL

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SECTION 6

12:15–12:30	OL	Ermolin M.S.	CONTINUOUS-FLOW SEPARATION AND PRECONCENTRATION OF MICROPLASTICS FROM FRESH AND SEA WATERS USING “WATER-OIL” SYSTEMS
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS V.P. Ananikov, Full Member of RAS V.I. Bukhtiyarov

Section 7

CATALYSIS IN SCIENCE AND INDUSTRY

Time specified in the program,
includes report and answers to questions

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SECTION 7

Hall Markovnikov

Chair: Ananikov V.P., Bukhtiyarov V.I.

14:00–14:30	KL	Shmidt A.F.	NEW APPLICATIONS OF KINETIC DATA IN MECHANISTIC STUDIES IN CATALYSIS
14:30–14:50	IL	Trifonov A.A.	NEW APPROACHES TO ACTIVATION OF C=C AND C-H BONDS
14:50–15:10	IL	Chernyshev V.M.	NOVEL CATALYTIC METHODS FOR THE SELECTIVE C-H FUNCTIONALIZATION OF THE FURAN NUCLEUS
15:10–15:30	IL	Budnikova Yu.G.	ELECTROCHEMICAL C-H FUNCTIONALIZATION. OPPORTUNITIES IN LATE STAGE SYNTHESIS (e-LSF)
15:30–15:50	IL	Koptuyug I.V.	NEW HORIZONS FOR THE APPLICATION OF NMR AND MRI IN CHEMISTRY, BIOLOGY AND MEDICINE
15:50–16:15			Coffee-break

Hall Markovnikov

Chair: Mikhailov A.A., Chernyshev V.M.

16:15–16:25	OL	Skudin V.V.	MECHANISM OF INTENSIFICATION OF GAS-CHEMICAL REACTIONS IN A REACTOR WITH A MEMBRANE CATALYST
16:25–16:35	OL	Khrizanforov M.N.	SYNERGISTIC CATALYSTS FOR ELECTROCATALYTIC REDUCTION OF CARBON DIOXIDE AND HYDROGEN EVOLUTION REACTION
16:35–16:45	OL	RostovShchikova T.N.	SYNTHETIC OPAL IN THE SYNTHESIS OF CO OXIDATION CATALYSTS
16:45–16:55	OL	Snytnikov P.V.	STRUCTURED CATALYSTS FOR FUEL PROCESSORS AND ELECTROCHEMICAL GENERATORS: FROM R&D TO PILOT-SCALE PRODUCTION
16:55–17:05	OL	Shilina M.I.	CATALYSTS BASED ON Cu/Ce-MODIFIED ZEOLITES FOR OXIDATION OF CARBON MONOXIDE
17:05–17:15	OL	Dolganov A.V.	METAL-FREE ELECTROCATALYSTS FOR PRODUCTION OF MOLECULAR HYDROGEN AND SYNTHESIS GAS: KINETICS, MECHANISM AND STRUCTURAL DESIGN OF CATALYSTS

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17:15–17:25	OL	Salnikov A.V.	SUPPORTED Pt-MeO _x /CNT CATALYSTS FOR THE DBT OXIDATION IN HYDROCARBON FUELS
17:25–17:35	OL	Ivantsov M.I.	NEW APPROACHES TO THE FORMATION OF METALLOCARBON CATALYZERS FOR HYDROGENATION OF CO
17:35–17:45	OL	Kalinin I.A.	HIGH-PERFORMANCE CATALYTIC HYDROGEN SENSORS FABRICATED ON ANODIC ALUMINA SUBSTRATES
17:45–17:55	OL	Bukhtiyarova G.A.	SYNTHESIS OF N-ALKYL-5-METHYL-2-PYRROLIDONES OVER NICKEL PHOSPHIDE CATALYSTS
17:55–18:05	OL	Arzumanyan A.V.	HYDROSILYLATION – A KEY CATALYTIC APPROACH TO SI-C-BOND FORMATION
18:05–18:15	OL	Faingold E.E.	METALLOCENE/ISOBUTYLALUMINUM ARYLOXIDE CATALYTIC SYSTEMS FOR SYNTHESIS OF ETHYLENE-PROPYLENE COPOLYMERS
18:30–20:00			Poster session

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SECTION 7

Hall Markovnikov

Chair: Koptuyug I.V., Budnikova Yu.G.

14:00–14:30	KL	Sinyashin O.G.	NEW PHOSPHORUS LIGANDS FOR CATALYSIS
14:30–14:50	IL	Postnikov P.S.	PLASMON-ASSISTED ACTIVATION OF ORGANIC REACTIONS ALTERNATIVE APPROACH FOR CATALYSIS
14:50–15:10	IL	Brylyakov K.P.	PERSPECTIVE BIOMIMETIC PROCESSES FOR SELECTIVE FUNCTIONALIZATION OF ORGANIC COMPOUNDS
15:10–15:30	IL	Perekalin D.S.	CYCLOPENTADIENYL RHODIUM COMPLEXES AS CATALYSTS FOR SELECTIVE C-H ACTIVATION REACTIONS
15:30–15:50	IL	Abel A.S.	PHOTOCATALYSTS BASED ON FUNCTIONALIZED 1,10-PHENANTHROLINE RUTHENIUM(II) COMPLEXES
15:50–16:15			Coffee-break

Hall Markovnikov

Chair: Brylyakov K.P., Abel A.S.

16:15–16:25	OL	Averin A.D.	COPPER NANOPARTICLES IN THE CATALYSIS OF CARBON-NITROGEN BOND FORMATION
16:25–16:35	OL	Prima D.O.	CONCEPTION OF HYBRID Pd/NHC SYSTEMS
16:35–16:45	OL	Ershov V.A.	SYNTHESIS AND CATALYTIC ACTIVITY OF CARBONATE-STABILIZED RHODIUM NANOPARTICLES
16:45–16:55	OL	Kashin A.S.	MULTILEVEL CATALYTIC SYSTEMS: FROM MOLECULAR COMPLEXES TO PARTICLE ENSEMBLES
16:55–17:05	OL	Chepkasov I.V.	STRUCTURE-DRIVEN TUNING OF O AND CO ADSORPTION ON AUCU NANOPARTICLES: A DENSITY FUNCTIONAL THEORY STUDY
17:05–17:15	OL	Larionov V.A.	METAL-TEMPLATED APPROACH FOR THE DESIGN OF CHIRAL HOMOGENEOUS CATALYSTS
17:15–17:25	OL	Khazipov O.V.	APPLICATION OF Ni(II) COMPLEXES WITH N-HETEROCYCLIC CARBENES IN CATALYSIS OF C-H ACTIVATION AND C-N CROSS-COUPLING REACTIONS
17:25–17:35	OL	Redina E.A.	BIMETALLIC CATALYSTS – NEW IDEAS FOR NEW PROCESSES

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17:35–17:45	OL	Shevchenko M.A.	4-AMINOIMIDAZOLIUM SALTS AS PRECURSORS OF FUNCTIONALIZED M/NHC
17:45–17:55	OL	Yakovenko R.E.	INFLUENCE OF PROMOTER ADDITIVES Pt, Pd, Ru AND Ni ON THE CATALYTIC PROPERTIES OF BIFUNCTIONAL COBALT CATALYSTS FOR THE SYNTHESIS OF HYDROCARBONS FROM CO AND H ₂
17:55–18:05	OL	Zaprvadina D.M.	SYNTHESIS OF IMINE DERIVATIVES OF CAMPHOR USING Zn-CONTAINING IONIC LIQUIDS
18:05–18:15	OL	Grabchenko M.V.	Ag-Cu CATALYSTS SUPPORTED ON MIXED OXIDES FOR OXIDATIVE EXHAUST GAS PURIFICATION
18:30–20:00			Poster session

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SECTION 7

Hall Markovnikov

Chair: Shmidt A.F., Postnikov P.S.

14:00–14:30	KL	Bukhtiyarov A.V.	ADSORPTION-INDUCED SEGREGATION AS A TOOL FOR DRIVING CATALYTIC PERFORMANCE OF Pd-BASED BIMETALLIC CATALYSTS
14:30–14:50	IL	Yakhvarov D.G.	ELECTROCHEMICAL SYNTHESIS OF HOMOGENEOUS CATALYSTS FOR SELECTIVE ETHYLENE DIMERIZATION AND TRIMERIZATION
14:50–15:10	IL	Nikoshvili L.Zh.	POROUS AROMATIC POLYMERS AS SUPPORTS FOR THE CATALYSTS OF HYDROGENATION AND CROSS-COUPLING
15:10–15:30	IL	Mikhailov A.A.	THE PHENOMENON OF "DEAD" METAL IN HETEROGENEOUS CATALYSIS
15:30–15:50	IL	Vasilevskii S.F.	CATALYSIS AS PART OF NEW STRATEGIES FOR THE DEVELOPMENT OF ACETYLENE CHEMISTRY
15:50–16:15			Coffee-break

Hall Markovnikov

Chair: Perekalin D.S., Prima D.O.

16:15–16:25	OL	Kinzhalov M.A.	VISIBLE-LIGHT PHOTOCATALYSIS WITH METALLA-N-HETEROCYCLIC CARBENE COMPLEXES
16:25–16:35	OL	Vatsadze S.Z.	BISPIDINE ORGANOCATALYSTS WITH LUMINESCENT AND RADICAL LABELS
16:35–16:45	OL	Kozlova E.A.	NEW PHOTOCATALYSTS FOR CO ₂ REDUCTION UNDER VISIBLE LIGHT
16:45–16:55	OL	Burykina Yu.V.	INVESTIGATION OF PHOTOCATALYTIC TRANSFORMATIONS USING MASS SPECTROMETRY IN OPERANDO MODE
16:55–17:05	OL	Poluboyarinova K.K.	PHOTOCATALYTIC PROPERTIES OF MIXED MOLYBDENUM AND TUNGSTEN TRIOXIDES WITH DISCOLORATION OF METHYLENE BLUE AS AN EXAMPLE
17:05–17:15	OL	Salomatina E.V.	NANOSTRUCTURED TITANIUM DIOXIDE IN POLYMER MATRIX AS AN EFFECTIVE PHOTOCATALYST FOR WASTE WATER TREATMENT
17:15–17:25	OL	Bolotin D.S.	ELECTROPHILIC CATALYSIS WITH ORGANIC LEWIS ACIDS

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17:25–17:35	OL	Shelepenko K.E.	A NEW APPROACH TO THE SYNTHESIS OF C-3-FUNCTIONALIZED DERIVATIVES OF 2-FURANCARBOXYLIC ACIDS BASED ON RUTHENIUM-CATALYZED REACTIONS OF C-H FUNCTIONALIZATION
17:35–17:45	OL	Kudakina V.A.	CYCLIZATION OF DIHALOARENES IN THE PRESENCE OF NICKEL COMPLEXES WITH DIAZABUTADIENE LIGANDS
17:45–17:55	OL	Shamanaev I.V.	RAPESEED OIL HYDROCONVERSION OVER NICKEL PHOSPHIDE CATALYSTS SUPPORTED ON ALUMINA-ZEOLITE COMPOSITES
17:55–18:05	OL	Kuchkaev A.M.	WHITE IS THE NEW BLACK. COORDINATION COMPOUNDS DERIVED FROM WHITE PHOSPHORUS ACTIVATION AS ELECTROCATALYSTS OF WATER SPLITTING TO H ₂ .
18:05–18:15	OL	Yudin N.V.	DEVELOPING PALLADIUM CATALYSTS FOR REDUCTIVE DEBENZYLATION OF HEXAAZASOWURTZITANE DERIVATIVES

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SECTION 7

Hall Markovnikov

Chair: Trifonov A.A., Yakhvarov D.G.

9:00–9:30	KL	Galushko A.S.	DYNAMIC BEHAVIOR OF HETEROGENEOUS PALLADIUM-BASED CATALYTIC SYSTEMS
9:30–10:00	IL	Chusov D.A.	CHEMICAL INFORMATION SEARCH AND NEW APPROACHES TO REENGINEERING
10:00–10:20	IL	Dubovtsev A.Yu.	GOLD-CATALYZED DIFFUNCTIONALIZATION OF ALKYNES
10:20–10:40	IL	Temnikov M.N.	THIRD GENERATION OF SILICONE PRODUCTION. DIRECT SYNTHESIS OF ORGANOALKOXY-SILANES.
10:40–11:00	СП	Kolosov N.A.	PROSPECTS OF LOCALISATION OF OLEFIN POLYMERISATION CATALYSTS PRODUCTION IN RUSSIA

Hall Markovnikov

Chair: Nikoshvili L.Zh., Temnikov M.N.

11:00–11:10	СП	Babina A.A.	CATALYSTS FOR PETROCHEMICAL PRODUCTION: CHALLENGES ON THE WAY OF LOCALISATION
11:10–11:20	OL	Vakulin I.V.	APPLICATION OF SHAPE SELECTIVITY CONCEPT FOR PREDICTION OF CATALYTIC AND ENANTIO SELECTIVITY OF POROUS MATERIALS
11:20–11:30	OL	Tarkhanova I.G.	IMMOBILIZED IONIC LIQUIDS WITH METAL-CONTAINING ANIONS IN CATALYSIS
11:30–11:40	OL	Mitchenko S.A.	SIMPLE PLATINUM ACIDO COMPLEXES IN CATALYSIS OF C-C COUPLING REACTIONS
11:40–11:50	OL	Grigoreva N.G.	A NEW CLASS OF CATALYSTS FOR PETROCHEMICALS AND ORGANIC SYNTHESIS BASED ON GRANULATED HIERARCHICAL ZEOLITES
11:50–12:00	OL	Sidorenko A.Yu.	ISOMERIZATION OF α -PINENE OXIDE ON ALUMINUM SILICATE NANOTUBES IN GREEN SOLVENTS

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12:00–12:20	OL	Bermesheva E.V.	DESIGN OF NEW SINGLE COMPONENT Ni- AND Pd-CATALYSTS FOR ADDITION POLYMERIZATION OF CYCLOOLEFINS
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS A.M. Muzafarov,
Corresponding Member of RAS S.A. Ponomarenko

Section 8

**POLYMERS AND POLYMERIC
MATERIALS (INCLUDING 2ND
INTERNATIONAL SYMPOSIUM
“MODERN TRENDS IN DENDRIMER
CHEMISTRY AND APPLICATIONS”)**

Time specified in the program,
includes report and answers to questions

October 8

SECTION 8

Hall Lebedev

Chair: Muzafarov A.M., Ponomarenko S.A.

14:00–14:30	KL	Sheiko S.S.	BOTTLEBRUSH NETWORKS: PROGRAMMABLE PROPERTIES EMPOWERED BY ARCHITECTURE
14:30–14:50	IL	Ivanov D.A.	THE USE OF SYNCHROTRON RADIATION FOR STRUCTURAL STUDIES OF FUNCTIONAL MATERIALS
14:50–15:10	IL	Bermeshev M.V.	MACROMOLECULAR DESIGN OF POLYMERIC MEMBRANE MATERIALS BASED ON SUBSTITUTED NORBORNENES: CURRENT STATE AND PROSPECTS FOR DEVELOPMENT
15:10–15:30	IL	Bratskaya S.Yu.	FULL FACTORIAL ANALYSIS IN DESIGN OF CHITOSAN SCAFFOLDS FOR 3D CELL CULTURING
15:30–15:50	IL	Chernikova E.V.	REVERSIBLE DEACTIVATION RADICAL POLYMERIZATION: TASKS, IMPLEMENTATION AND PROSPECTS
15:50–16:30			Coffee-break

Hall Lebedev

Chair: Chernikova E.V., Yudin V.E.

16:30–16:45	OL	Vasilevskaya V.V.	AMPHIPHILIC HOMOPOLYMERS: FEATURES OF SELF-ORGANIZATION IN GRAFTED LAYERS AND SOLUTION
16:45–17:00	OL	Kozhunova E.Yu.	SYNTHESIS AND PROPERTIES OF ANIONIC COPOLYMERS AND MICROGELS FOR BIOMEDICAL ADHESIVES
17:00–17:15	OL	Stepanov E.A., Stolpovskaya N.V.	HYDROGENATED BUTADIENE STYRENE POLYMERS AS EFFECTIVE ADDITIVES FOR MOTOR OILS
17:15–17:30	OL	Sukhov B.G.	HYBRID INORGANIC-ORGANIC NANOBIOCOMPOSITES AS PROMISING PLATFORMS FOR INTERDISCIPLINARY RESEARCH AND TECHNOLOGY
17:30–17:45	OL	Chertovich A.V.	SELF ORGANIZATION IN POLYMERS WITH ACTIVE UNITS
17:45–18:00	OL	Zaremskii M.Yu.	FEATURES OF THE SYNTHESIS OF EASILY DEGRADABLE POLYMERS WITH THE PARTICIPATION OF CYCLIC KETENE ACETALS

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18:00–18:15	OL	Kritchenkov A.S.	NEW APPROACHES TO THE FUNCTIONALIZATION OF CHITOSAN
18:15–18:30	OL	Golovanova O.A.	SYNTHESIS OF COMPOSITE MATERIALS BASED ON CALCIUM PHOSPHATES AND SODIUM ALGINATE-CHITOSAN POLYELECTROLYTE COMPLEX
18:30–20:00			Poster session

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SECTION 8

Hall Lebedev

Chair: Yakimanskii A.V., Luponosov Yu.N.

14:00–14:30	KL	Ponomarenko S.A.	FUNCTIONAL MATERIALS FOR ORGANIC ELECTRONICS: YESTERDAY, TODAY AND TOMORROW
14:30–14:50	IL	Badamshina E.R.	POLYMER BASIS OF LITHOGRAPHIC MATERIALS: PROBLEMS AND SOLUTIONS
14:50–15:10	IL	Kazantsev M.S.	STRUCTURAL VARIABILITY AND FUNCTIONAL PROPERTIES OF CONJUGATED OLIGOMERS FOR ORGANIC OPTOELECTRONICS
15:10–15:30	IL	Agina E.V.	MATERIALS FOR FUNCTIONAL AND RECEPTOR LAYERS OF LIQUID SENSORS BASED ON ORGANIC TRANSISTORS
15:30–15:50	IL	Troshin P.A.	REDOX-ACTIVE POLYMERS AS ELECTRODE MATERIALS FOR PROMISING TYPES OF BATTERIES
15:50–16:30			Coffee-break

Hall Lebedev

Chair: Agina E.V., Troshin P.A.

16:30–16:45	OL	Yakimanskii A.V.	POLYFLUORENES WITH COVALENTLY ATTACHED CYANINE DYES: SYNTHESIS AND APPLICATIONS IN OPTOELECTRONICS
16:45–17:00	OL	Luponosov Yu.N.	NEW ORGANIC SEMICONDUCTORS BASED ON DONOR-ACCEPTOR OLIGOMERS FOR ORGANIC AND HYBRID OPTOELECTRONICS
17:00–17:15	OL	Bovaldinova K.A.	SUBSTITUTION OF TRADITIONAL MATERIALS BY POLYMERIC MATERIALS
17:15–17:30	OL	Malkanduev Yu.A.	GELATION IN PROCESSES INVOLVING QUATERNARY AMMONIUM COMPOUNDS
17:30–17:45	OL	Shapagin A.V.	STRUCTURE FORMATION IN MULTICOMPONENT REACTIVE POLYMER SYSTEMS
17:45–18:00	OL	Markin A.V.	THERMODYNAMICS OF CARBOSILANE DENDRIMERS AS A FUNDAMENTAL BASIS FOR THE CREATION OF NEW TYPES OF POLYMERIC MATTER

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18:00–18:15	OL	Bezlepkina K.A.	PREPARATION OF FUNCTIONAL ORGANOSILICONE MOLECULES OF DIFFERENT STRUCTURES BY THE CUAAC REACTION IN THE PRESENCE OF A HETEROGENEOUS CATALYST
18:15–18:30	OL	Soloveva A.B.	POLYMER PHOTSENSITIZING SYSTEMS FOR ANTIMICROBIAL PHOTODYNAMIC THERAPY
18:30–20:00			Poster session

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SECTION 8

Hall Lebedev

Chair: Muzafarov A.M., Ivanov D.A.

14:00–14:30	KL	Chvalun S.N.	PROSPECTIVE DIRECTIONS FOR THE DEVELOPMENT OF POLYMERS AND POLYMER MATERIALS
14:30–14:50	IL	Ozerin A.N.	ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE. THE CURRENT STATE OF THE PROBLEM
14:50–15:10	IL	Yudin V.E.	THERMAL, FLAME RETARDANT AND CRYO-RESISTANT POLYMER COMPOSITE MATERIALS FOR ADVANCED TECHNOLOGIES
15:10–15:30	IL	Yaroslavov A.A.	POLYMER WASTE: PROBLEMS AND PROSPECTS
15:30–15:50	IL	Shcherbina M.A.	NECESSITY OF A SYSTEMIC APPROACH TO THE PROBLEM OF PROCESSING POLYMER WASTE
15:50–16:30			Coffee-break

Hall Lebedev

Chair: Ozerin A.N., Yaroslavov A.A.

16:30–16:45	OL	Khashirova S.Yu.	HIGH-PERFORMANCE POLYMERS AND TECHNOLOGIES AS KEY ELEMENTS OF FUTURE MEDICINE
16:45–17:00	OL	Zhansitov A.A.	COPOLYMERS BASED ON POLYETHER KETONES FOR 3D PRINTING
17:00–17:15	OL	Solodilov V.I.	PRINCIPLES OF CREATING FIBERS REINFORCED PLASTICS WITH INCREASED CRACK RESISTANCE BASED ON HYBRID MATRICES POLYEPOXIDE-THERMOPLASTICS
17:15–17:30	OL	Vaniev M.A.	DEVELOPMENT AND RESEARCH OF PROPERTIES OF NEW ELASTOMERIC MATERIALS WITH INCREASED RESISTANCE TO THE EFFECTS OF THE TROPIC ATMOSPHERE AND THE MARINE ENVIRONMENT
17:30–17:45	OL	Kablov V.F.	DEVELOPMENT OF ELASTOMERIC MATERIALS FOR EXTREME OPERATING CONDITIONS USING COMPUTATIONAL MATERIALS SCIENCE METHODS

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17:45–18:00	OL	Baruta D.S.	FEATURES OF SYNTHESIS OF STYRENE-ACRYLIC DISPERSIONS FOR SURFACE SIZING OF PAPER AND CARDBOARD
18:00–18:15	OL	Isaev A.Yu.	CURRENT STATE OF DEVELOPMENT OF ADHESIVE MATERIALS FOR AVIATION TECHNOLOGY IN THE RUSSIAN FEDERATION
18:15–18:30	OL	Minyailo E.O.	USING AMMONIA AS A REACTION MEDIUM – A NEW APPROACH TO SILICONE SYNTHESIS AND RECYCLING
18:30–20:00			Poster session

October 11

SECTION 8

Hall Lebedev

Chair: Ponomarenko S.A., Chvalun S.N.

9:00–9:30	KL	Muzafarov A.M.	MACROMOLECULAR NANO-OBJECTS: OUTCOMES OF THE EXTENSIVE DEVELOPMENT PHASE
9:30–9:50	IL	Bakirov A.V.	CRYSTALLIZATION OF HIGH-GENERATION DENDRIMERS: FROM SPACE FILLING TO DENSE PACKING
9:50–10:10	IL	Milenin S.A.	SYNTHESIS AND MODIFICATION OF ORGANOSILICON MOLECULES USING THE CUAAC REACTION
10:10–10:30	IL	Kramarenko E.Yu.	DIRECTED MODIFICATION OF CARBOSILANE DENDRIMERS AS A WAY TO CONTROL THEIR CONFORMATIONAL BEHAVIOR AT THE HYDROPHOBIC-HYDROPHILIC INTERPHASE BOUNDARY: ATOMISTIC SIMULATIONS
10:30–10:50	IL	Zhu Xiaomin	VESICLES FORMED BY SUPRAMOLECULAR COMPLEXES CONTAINING MONODENDRON LIGANDS

Hall Lebedev

Chair: Zhu X., Bakirov A.V.

11:00–11:15	OL	Obrezkova M.A.	FROM MOLECULAR BRUSHES TO MOLECULAR FILLERS
11:15–11:30	OL	Slonov A.L.	STUDY OF THE INFLUENCE OF SINTERING MODES OF POLYETHERETHER KETONE AND POLYPHENYLENE SULPHONE POWDERS ON THE MECHANICAL PROPERTIES OF SAMPLES
11:30–12:30		Round table «The concept for solving polymer waste utilization problem» <i>(moderator Muzafarov A.M.)</i>	
12:30–14:00		Coffee-break, lunch	

Chairs – Corresponding Member of RAS A.O. Terentyev, Corresponding Member of RAS N.P. Tarasova, Prof. A.A. Kartsova, Prof. S.S. Karlov

Section 9

CHEMICAL EDUCATION

Time specified in the program,
includes report and answers to questions

October 8

SECTION 9

Hall Zinin

Chair: Tarasova N.P.

14:00–14:30	KL	Terentev A.O.	PERSONAL-PROFESSIONAL GROWTH FROM STUDENT TO YOUNG SCIENTIST IN THE SYSTEM OF UNIVERSITY/ACADEMIC INSTITUTE
14:30–14:50	IL	Mammino Liliana	MULTIDISCIPLINARY IN GREEN CHEMISTRY EDUCATION
14:50–15:10	IL	Varaksin M.V.	MODERN UNIVERSITY CHEMISTRY EDUCATION: TRENDS, APPROACHES AND PROSPECTS
15:10–15:30	IL	Balova I.A.	INNOVATIVE TEACHING METHODS AT THE INSTITUTE OF CHEMISTRY OF SPBGU
15:30–15:50	IL	Kazakov Yu.M.	SOCIAL PARTNERSHIP, REGIONAL GOVERNMENT-UNIVERSITY-INDUSTRIAL ENTERPRISE, AS A TOOL TO IMPROVE THE QUALITY OF NATURAL SCIENCE EDUCATION. THE EXPERIENCE OF THE KAZAN NATIONAL RESEARCH TECHNOLOGICAL UNIVERSITY
15:50–16:15			Coffee-break

Hall Zinin

Chair: Terentev A.O.

16:15–16:30	OL	Medvedeva M.V.	
16:30–16:45	OL	Svitanko I.V.	OVERDUE REFORMS OF HIGHER CHEMICAL EDUCATION
16:45–17:00	OL	Lobanov A.V.	INTEGRATION AND ADAPTIVE PROCESSES IN UPDATING OF CONTENT OF CHEMICAL EDUCATION
17:00–17:15	OL	Savinov S.S.	ONLINE TEACHING: A COURSE ON METROLOGY OF CHEMICAL ANALYSIS
17:15–17:30	OL	Ziyatdinova Yu.N.	ROLE OF PROFESSIONAL DEVELOPMENT PROGRAMS IN CHEMICAL ENGINEERING EDUCATION
17:30–17:45	OL	Kraisman N.V.	ADDITIONAL EDUCATION AS A FACTOR IN CHEMISTRY STUDENTS ACADEMIC MOBILITY FORMATION

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17:45–18:00	OL	Myznikov L.V.	MATRIX LAB COURSE - AN INNOVATIVE APPROACH TO LABORATORY PRACTICUM ON THE EXAMPLE OF SPECIALIZED CHEMICAL DISCIPLINES
18:00–18:15	OL	Sultanova D.Sha.	MODERNIZING THE CONTENT OF EDUCATIONAL PROGRAMS THROUGH BUILDING AN INTERNSHIP SYSTEM AT INDUSTRIAL ENTERPRISES
18:15–18:30	OL	Trushnikov D.Yu., Golikov D.V. (A90B company)	NOBEL CLASS. ARCHITECTURAL AND METHODOLOGICAL IMPLEMENTATION
18:30–20:00			Poster session

October 9

SECTION 9

Hall Zinin

Chair: Karlov S.S.

14:00–14:30	KL	Kartsova L.A.	CREATIVE COMMONWEALTH "SCHOOL-UNIVERSITY"
14:30–14:50	IL	Levina L.S.	SCHOOL CHEMISTRY TEACHER: REALITY AND PERSPECTIVES
14:50–15:10	IL	Dobrotin D.Yu.	SCIENTIFIC AND METHODOLOGICAL APPROACHES TO THE DEVELOPMENT OF CONTROL MEASURING MATERIALS STATE FINAL EXAMINATION IN CHEMISTRY
15:10–15:30	IL	Naumov A.V.	PHYSICAL AND CHEMICAL EDUCATION: INTERDISCIPLINARY RELATIONS WITHIN THE ERA OF TECHNOLOGICAL CHANGE
15:30–15:50	IL	Orzhekovskii P.A.	ON THE PROBLEMS OF TRAINING AND RETRAINING OF TEACHING STAFF
15:50–16:15			Coffee-break

Hall Zinin

Chair: Kartsova L.A.

16:15–16:30	OL	Gladilin A.K.	OLYMPIADS OR PROJECT ACTIVITY - WHAT TO CHOOSE?
16:30–16:45	OL	Yashkin S.N.	CHEMICAL START: FROM SCHOOL LESSON TO FUTURE PROFESSION
16:45–17:00	OL	Oparina S.A.	EARLY PROFESSIONAL ORIENTATION OF STUDENTS IN THE FIELD OF NATURAL SCIENCES IN THE SYSTEM OF ADDITIONAL EDUCATION
17:00–17:15	OL	Polupanenko E.G.	KEY ASPECTS OF THE DE-WESTERNIZATION OF THE MODERN CHEMICAL EDUCATION SYSTEM FOR SCHOOLCHILDREN
17:15–17:30	OL	Drobyshev E.Yu.	A MODEL OF INTERACTION BETWEEN A TEACHER-MENTOR AND A STUDENT DURING EDUCATIONAL AND RESEARCH ACTIVITIES IN THE CONTEXT OF THE ACADEMIC SUBJECT "CHEMISTRY"
17:30–17:45	OL	Borodina G.G.	CHEMICAL EDUCATION: INTEGRATION THROUGH STEAM TECHNOLOGY
17:45–18:00	OL	Kostenko E.S.	INTRODUCTION OF STEAM METHODOLOGY IN SCHOOL CHEMISTRY EDUCATION

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18:00–18:15	OL	Redko T.S.	SPECIALIZED CHEMISTRY EDUCATIONAL SESSIONS BASED ON THE SIRIUS MODEL IN THE SYSTEM OF ADDITIONAL EDUCATION OF THE STAVROPOL TERRITORY
18:15–18:30	OL	Yakovlev I.A.	ALL-RUSSIAN CHEMISTRY TOURNAMENT FOR SCHOOLCHILDREN AS A PROMISING WAY TO INTRODUCE TALENTED YOUTH TO SCIENCE
18:30–20:00			Poster session

October 10

SECTION 9

Hall Zinin

Chair: Terentev A.O.

14:00–14:30	KL	Dodonova A.A.	THE BEST EDUCATION TECHNOLOGIES AVAILABLE FOR SUSTAINABLE DEVELOPMENT: NEW TRAINING OPPORTUNITIES FOR CHEMICAL ENGINEER
14:30–14:50	IL	Rumyantsev E.V.	TRAINING OF NEW ELITE ENGINEERING PERSONNEL AT DMITRY MENDELEEV UNIVERSITY: PREDICTING THE FUTURE
14:50–15:10	IL	Kutkin A.V.	SCIENTIFIC SCHOOLS OF FGUP 'GOSNIIOKHT'. INTEGRATION OF SCIENCE, EDUCATIONAL PROCESS AND PRODUCTION
15:10–15:30	IL	Navrotskii A.V.	'NON-CLASSICAL PRACTICES' IN CLASSICAL CHEMICAL-TECHNOLOGICAL EDUCATION
15:30–15:50	IL	Shekhovtsova T.N.	POSITIVE EXPERIENCE OF DISTANCE LEARNING OF STUDENTS
15:50–16:15			Coffee-break

Hall Zinin

Chair: Tarasova N.P.

16:15–16:30	OL	Mikhailov O.V.	DISTANCE LEARNING AND CHEMICAL EDUCATION: PROBLEM OF COMPATIBILITY
16:30–16:45	OL	Pletnev M.A.	CHEMICAL ENGINEERING EDUCATION AT TECHNICAL UNIVERSITY
16:45–17:00	OL	Sulman M.G.	DISCIPLINES OF THE BLOCK 1 SET AND VARIABLE PART FORMING THE PROFILE OF CHEMISTRY PROGRAMS FOR BACHELOR AND MASTER DEGREE
17:00–17:15	OL	Myalkin I.V.	QUALITY OF TEACHING CHEMICAL DISCIPLINES IN HIGHER SCHOOL THROUGH THE INTEGRATION OF EDUCATIONAL PROGRAMS WITH PRODUCTION IN HIGHER SCHOOL (BASED ON THE EXAMPLE OF METALLURGICAL SPECIALTIES OF THE VYKSUNSKY BRANCH OF NUST MISIS)
17:15–17:30	OL	Novozhilova I.V.	EXPERIENCE IN DEVELOPING EDUCATIONAL PROGRAMS ON THE APPLICATION OF DIGITAL TECHNOLOGIES IN THE PRODUCTION AND OPERATION OF REFRACTORY MATERIALS AND PRODUCTS FOR METALLURGICAL PROCESSES
17:30–17:45	OL	Shabunina O.V.	MODULAR SYSTEM IN MEDICAL CHEMISTRY

October 10

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17:45–18:00	OL	Bakhrushina E.O.	APPLICATION OF AR VR TECHNOLOGIES IN THE PHARMACISTS-ANALYSTS TRAININGS: THE EXPERIENCE OF THE PHARMACY AND BIOTECHNOLOGY COMPETENCE CENTRE OF SECHENOV UNIVERSITY
18:00–18:15	OL	Gavryushkin P.N.	WORKSHOPS ON 3D MODELING AND 3D PRINTING WITHIN OF CHEMISTRY COURSES
18:15–18:30	OL	Chuvashov A.A.	EXPERIMENTAL MODEL OF LABORATORY INFRASTRUCTURE OF SIRIUS UNIVERSITY
18:30–20:00			Round Table on problems of chemical education

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SECTION 9

Hall Zinin

Chair: Kartsova L.A.

9:00–9:30	KL	Karlov S.S.	CHEMICAL OLYMPIADS OF SCHOOLCHILDREN: PROBLEMS AND PROSPECTS. THE VIEW OF A UNIVERSITY TEACHER
9:30–9:50	IL	Timoshkin A.Yu.	DEVELOPMENT AND IMPLEMENTATION OF ONLINE COURSES AT THE DEPARTMENT OF GENERAL AND INORGANIC CHEMISTRY OF ST. PETERSBURG STATE UNIVERSITY
9:50–10:10	IL	Tyulkov I.A.	TRAINING OF CHEMISTRY TEACHERS AT A CLASSICAL UNIVERSITY
10:10–10:30	IL	Trusova M.E.	CHOICE OF SPECIALISATION IN HIGHER EDUCATION
10:30–10:50	IL	Moskvin S.A.	ONLY SPECIALIZED TRAINING CAN BE THE HOPE

Hall Zinin

Chair: Karlov S.S.

10:50–11:05	OL	Eremin V.V.	CHEMISTRY OLYMPIADS IN RUSSIA – A SOCIAL LIFT AND A MATTER OF NATIONAL PRIDE
11:05–11:20	OL	Akhmetov M.A.	CRITERIA FOR CHEMICAL OLYMPIAD TASKS
11:20–11:35	OL	Gumerov A.M.	INVOLVING UNIVERSITY STUDENTS IN MENTORING SCHOOL STUDENTS: ON THE EXAMPLE OF PREPARING SCHOOLCHILDREN FOR CHEMISTRY OLYMPIADS
11:35–11:50	OL	Kozlova T.L.	THE OLYMPIAD MOVEMENT IN THE PROFESSIONAL DEVELOPMENT OF A CHEMISTRY TEACHER
11:50–12:05	OL	Zubarev M.P.	CHEMISTRY OLYMPIAD «YOUNG TALENTS»
12:05–12:20	OL	Kuramshin B.K.	ANALYSIS AND EVOLUTION OF CHEMISTRY OLYMPIADS: ALL-RUSSIAN AND OLYMPIADS OF THE LIST
12:30–14:00			Coffee-break, lunch

Chairs – Corresponding Member of RAS A.K. Buryak, Corresponding Member of RAS O.A. Shpigun, Corresponding Member of RAS R.Kh. Khamizov



SYMPOSIUM ON CHROMATOGRAPHY

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM ON CHROMATOGRAPHY

Hall Tsvet

Chair: Buryak A.K.

14:00–14:30	KL	Shpigun O.A.	RUSSIAN CHROMATOGRAPHY AND ITS PROSPECTS
14:30–14:50	IL	Nesterenko P.N.	CHROMATOGRAPHIC METHODS FOR SEPARATION OF ISOTOPOLOGUES
14:50–15:10	IL	Kurganov A.A.	THE PHYSICAL MEANING OF THE CORRECTED RETENTION VOLUME - POSSIBLE SOLUTION TO THE KNOWN PROBLEM
15:10–15:30	IL	Deineka V.I.	EFFECT OF PRESSURE ON SORBATE RETENTION AND DESIGN CHARACTERISTICS IN "MONOMERIC" REVERSED-PHASE HPLC
15:30–15:50	IL	Stavrianidi A.N.	MACHINE LEARNING FOR MODELING RETENTION PARAMETERS OF PHARMACEUTICAL COMPOUNDS UNDER REVERSED-PHASE AND HYDROPHILIC CHROMATOGRAPHY CONDITIONS
15:50–16:15			Coffee-break

Hall Tsvet

Chair: Buryak A.K.

16:15–16:30	OL	Pytskii I.S.	MASS SPECTROMETRY AS A TOOL FOR PHYSICAL AND CHEMICAL RESEARCH AND A MEANS FOR CONTROL OF MODERN MATERIALS
16:30–16:45	OL	Sholokhova A.Yu.	MACHINE LEARNING IN GAS CHROMATO-MASS SPECTROMETRY – A FASHIONABLE TREND OR A WORKING TOOL?
16:45–17:00	OL	Zaitseva E.A.	THEORETICAL DESCRIPTION OF INTERMOLECULAR INTERACTIONS IN GAS CHROMATOGRAPHY
17:00–17:15	OL	Makas A.L.	FAST GC SEPARATION ON MULTICAPILLARY COLUMNS IN COMBINATION WITH ATMOSPHERIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRIC DETECTOR
17:15–17:30	OL	Kuraeva Yu.G.	STUDYING VOLATILE ORGANIC COMPOUNDS THE COMPLEX FORMATION WITH CYCLODEXTRINS IN POLYMER SYSTEMS BY REVERSE GAS CHROMATOGRAPHY METHOD
17:30–17:45	OL	Prosuntsova D.S.	FUNCTIONAL MATERIALS WITH GOLD NANOPARTICLES AS STATIONARY PHASES FOR HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY

October 8

SYMPOSIUM ON CHROMATOGRAPHY

17:45–17:50	OL	Shemyakina A.O.	DEVELOPMENT AND APPLICATION OF THE APPROACHES FOR THE DESCRIPTION OF RETENTION MECHANISM IN HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY
17:50–17:55	OL	Karpitskii D.A.	ANALYTICAL CAPABILITIES OF SMART MATERIALS IN COMBINATION WITH HPLC METHODS IN THE ANALYSIS OF NATURAL OBJECTS
17:55–18:00	OL	Popov M.S.	THERMAL DESORPTION GAS CHROMATOGRAPHY - MASS SPECTROMETRY: A NEW APPROACH TO MONITORING THE CONTAMINATION OF PEAT BOG SOILS WITH ROCKET FUEL TRANSFORMATION PRODUCTS
18:00–18:10	OL	Sevko A.V.	'DEVELOPMENT OF MODERN OPTICAL DETECTORS FOR LIQUID CHROMATOGRAPHY' (IP SEVKO A.V.)
18:10–18:20	OL	Gubal A.R.	DEVELOPMENT OF THE FAMILY OF TIME- OF- FLIGHT MASS-DETECTORS
18:20–18:30	OL	Dyakina Yu.I.	EXPERIENCE OF USING SUPPORT MEASURES (GRANTS AND ETC.) FOR DEVELOPMENTS IN THE FIELD OF CHROMATOGRAPHIC INSTRUMENTATION' (CHROMOS ENGINEERING LTD.)

October 9

SYMPOSIUM ON CHROMATOGRAPHY

Hall Tsvet

Chair: Shpigun O.A.

14:00–14:30	KL	Joachim Weiss	ION CHROMATOGRAPHY – PAST, PRESENCE, AND FUTURE
14:30–14:50	IL	Platonov I.A.	MICROFLUIDIC ANALYTICAL SYSTEMS IN GAS ANALYSIS
14:50–15:10	IL	Zenkevich I.G.	FEATURES OF GAS CHROMATOGRAPHIC ANALYSIS OF THERMALLY UNSTABLE COMPOUNDS
15:10–15:30	IL	Beloborodova N.V.	THE ROLE OF CHROMATO-MASS SPECTROMETRIC MONITORING IN THE DEVELOPMENT AND IMPLEMENTATION OF ADVANCED TECHNOLOGIES IN INTENSIVE CARE
15:30–15:50	IL	Chernobrovkina A.V.	NOVEL EFFICIENT STATIONARY PHASES FOR HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY AND THEIR APPLICATION
15:50–16:15			Coffee-break

Hall Tsvet

Председатель: Шпигун О.А.

16:15–16:30	OL	Baldin M.N.	GAS CHROMATOGRAPHY WITH ATMOSPHERIC AIR AS CARRIER GAS
16:30–16:45	OL	Krasilnikov I.V.	ROLE OF CHROMATOGRAPHY IN THE DEVELOPMENT OF MODERN VACCINOLOGY
16:45–17:00	OL	Zanozina I.I.	CHROMATOGRAPHY IN RESEARCH AND ANALYSIS OF PETROLEUM FEEDSTOCK, TARGET REFINED PRODUCTS, DEVELOPMENT AND IMPLEMENTATION OF MEASUREMENT METHODS WITH THE APPLICATION OF GH IN ANALYTICAL SUPPORT OF TECHNOLOGICAL PROCESSES.
17:00–17:15	OL	Alekseenko A.N.	CHROMATOGRAPHY-MASS SPECTROMETRIC (GC-MS) DETERMINATION OF HYDROXYLATED PAHS IN URINE

October 9

SYMPOSIUM ON CHROMATOGRAPHY

17:15–17:30	OL	Pautova A.K.	DETERMINATION OF AROMATIC, FATTY AND DICARBOXYLIC ACIDS IN BLOOD SERUM AND CEREBROSPINAL FLUID BY GAS AND HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY METHODS FOR THE PURPOSES OF PREDICTION AND MONITORING THE CONDITION OF PATIENTS IN REANIMATOLOGY
17:30–17:45	OL	Levkina V.V.	SORPTION OF PETROLEUM VOLATILE ORGANIC COMPOUNDS ON CARBON SORBENT FROM RICE HUSK
17:45–18:00	OL	Gashimova E.M.	EXHALED BREATH LUNG CANCER DIAGNOSTICS USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY
18:00–18:05	OL	Grinevich O.I.	RETENTION OF SOME AZOLES AND AZINES IN REVERSED-PHASE AND HYDROPHILIC HPLC-MS
18:05–18:10	OL	Voronov I.S.	NON-TARGETED SCREENING OF SULFONAMIDE ANTIBIOTICS IN WASTEWATER BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY IN THE PRECURSOR ION SCAN MODE
18:10–18:15	OL	Bobrovskaya K.S.	FEATURES OF EXTRACTION-CHROMATOGRAPHIC SEPARATION OF YTTERBIUM AND LUTETIUM USING 2-ETHYLHEXYLPHOSPHONIC ACID MONO(2-ETHYLHEXYL) ESTER
18:15–18:20	OL	Latkin T.B.	APPLICATION OF STIR-BAR SORPTIVE EXTRACTION IN GAS CHROMATOGRAPHY-MASS SPECTROMETRIC ANALYSIS OF ARCTIC SNOW
18:20–18:25	OL	Ledyaev M.E.	APPLICATION OF THE PLANAR MICROFLUIDIC THERMAL DESORBER FOR THE ANALYSIS OF VOLATILE ORGANIC COMPOUNDS IN AMBIENT AIR

October 10

SYMPOSIUM ON CHROMATOGRAPHY

Hall Tsvet

Chair: Khamizov R.Kh.

14:00–14:30	KL	Kartsova A.A.	NEW APPROACHES TO CHIRAL CAPILLARY ELECTROPHORESIS
14:30–14:50	IL	Milyutin V.V.	SORPTION AND CHROMATOGRAPHIC METHODS FOR RECOVERY AND SEPARATION OF RADIOACTIVE ELEMENTS AND DECONTAMINATION OF LIQUID RADIOACTIVE WASTE
14:50–15:10	IL	Staroverov S.M.	ОТЕЧЕСТВЕННЫЕ СОРБЕНТЫ И КОЛОНКИ ДЛЯ АНАЛИТИЧЕСКОЙ И ПРОМЫШЛЕННОЙ ХРОМАТОГРАФИИ
15:10–15:30	IL	Yashkin S.N.	STRUCTURAL SELECTIVITY IN GAS ADSORPTION CHROMATOGRAPHY: ACHIEVEMENTS AND PROSPECTS
15:30–15:50	IL	Guskov V.Yu.	APPLICATION OF MATERIALS WITH SUPRAMOLECULAR CHIRALITY IN ADSORPTION AND CHROMATOGRAPHY
15:50–16:15			Coffee-break

Hall Tsvet

Chair: Khamizov R.Kh.

16:15–16:30	OL	Kalambet Yu.A.	SOME ALGORITHMS OF CHROMATOGRAPHIC DATA PROCESSING
16:30–16:45	OL	Khabarov V.B.	HEATRESISTANT POLYMER SORBENTS POLYNAPHTHAYLENEBENZIMIDAZOLES FOR GAS CHROMATOGRAPHIC SEPARATION AND CONCENTRATION OF VOLATILE SUBSTANCES
16:45–17:00	OL	Popov A.S.	PASSIVE SORPTION OF VOLATILE COMPOUNDS ON NEW COMPOSITE MATERIALS BASED ON SILICON CARBIDE AND THEIR SUBSEQUENT IDENTIFICATION BY GC/MS METHOD WITH THERMAL DESORPTION
17:00–17:15	OL	Reshetova E.N.	ENANTIOSELECTIVE CHROMATOGRAPHY OF DIPEPTIDES ON ADSORBENTS WITH GRAFTED ANTIBIOTICS
17:15–17:30	OL	Asnin L.D.	THEORETICAL FOUNDATIONS AND PARTICULARITIES OF THE APPLICATION OF THE VAN'T HOFF EQUATION IN CHROMATOGRAPHY

October 10

SYMPOSIUM ON CHROMATOGRAPHY

17:30–17:45	OL	Gorbovskaya A.V.	NEW MULTIFUNCTIONAL SORBENTS WITH GRAFTED ZWITTER-ION LAYER FOR THREE MODES OF CHROMATOGRAPHY
17:45–18:00	OL	Tokranov A.A.	STUDYING THE ADSORPTION PROPERTIES OF MESOPOROUS SILICA GEL DOPED WITH TERBIUM, MODIFIED WITH NICKEL AND SILVER (AG-NI/TB-MS) BY REVERSE GAS CHROMATOGRAPHY
18:00–18:15	OL	Raznitsyna V.M.	INFLUENCE OF THE NATURE OF IONIC LIQUIDS ON THE RETENTION OF AROMATIC ACIDS ON HYPERCARB™ UNDER RP HPLC CONDITIONS
18:15–18:30	OL	Rybakova E.V.	TO THE QUESTION OF TERMINOLOGY IN CHROMATOGRAPHY. DETERMINATION OF ION CHROMATOGRAPHY
18:30–20:00			Poster session

Chairs – Full Member of RAS A.Yu. Tsivadze, Prof. M.A. Vorotyntsev,
V.N. Andreev



**11TH INTERNATIONAL
FRUMKIN SYMPOSIUM ON
ELECTROCHEMISTRY**

Time specified in the program,
includes report and answers to questions

October 8

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

Hall Frumkin

Chair: Zolotukhina E.V., Uvarov N.F.

14:00–14:30	KL	Hillman Robert	ELECTRON TRANSFER REACTIONS AND ELECTROACTIVE MATERIALS FOR LATENT FINGERPRINT VISUALIZATION
14:30–14:50	IL		
14:50–15:10	IL	Guterman V.E.	PLATINUM-CONTAINING ELECTROCATALYSTS FOR HYDROGEN-AIR PEMFC: SYNTHESIS AS A SCIENCE, MICROSTRUCTURE, AND ELECTROCHEMICAL PERFORMANCE
15:10–15:30	IL	Kondratev V.V.	INTERCALATION PROCESSES IN ALXV2O5 CATHODES IN MG ²⁺ - AND ZN ²⁺ - CONTAINING AQUEOUS ELECTROLYTES
15:30–15:45	OL	Kuriganova A.B.	PRODUCTION OF ELECTRO- AND CATALYTICALLY ACTIVE MATERIALS BY PULSE ELECTROLYSIS
15:45–16:00	OL	Belenov S.V.	INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND ACTIVITY OF PTCU/C ELECTROCATALYSTS ON DIFFERENT CARBON CARRIERS
16:00–16:30			Coffee-break
<i>Chair: Guterman V.E., Kondratev V.V.</i>			
16:30–16:45	OL	Korchagin O.V.	TOLERANT CATALYSTS FOR HYDROGEN OXIDATION IN ALKALINE ENVIRONMENTS
16:45–17:00	OL	Manzhos R.A.	ELECTROLYTIC DISPERSION OF ALLOYS. PRODUCTION OF COMPOSITE PDNI-ELECTROCATALYSTS OF METHANOL OXIDATION REACTION
17:00–17:15	OL	Kochergin V.K.	ONE-STEP PLASMA-ASSISTED ELECTROCHEMICAL SYNTHESIS OF NANOCOMPOSITES OF GRAPHENE STRUCTURES WITH COBALT/MANGANESE OXIDES – PROMISING ELECTROCATALYSTS OF OXYGEN REDUCTION REACTION
17:15–17:30	OL	Kholin K.V.	ELECTROCATALYTIC REDUCTION OF CO ₂ WITH COPPER-CONTAINING NANOSTRUCTURED ELECTRODE AND SODIUM PECTATE COMPLEXES

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11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:30–17:45	OL	Khanin D.A.	PREPARATION OF PD(Mo ₂ c) COMPOSITE BY PALLADIUM NON-CURRENT DEPOSITION METHOD, ITS CATALYTIC PROPERTIES AND STABILITY IN THE ANODIC POTENTIAL REGION
17:45–18:00	OL	Kokin A.A.	SPECIFIC FUNCTIONING OF BIFUNCTIONAL ELECTROCATALYSTS BASED ON NICKEL SULPHIDE UNDER CONDITIONS OF CYCLIC CHANGE OF THE ELECTRODE PROCESS
18:00–18:15	OL	Kushnir S.E.	PHOTONIC CRYSTAL STRUCTURES BASED ON ANODIC ALUMINIUM OXIDE
18:15–18:30	OL	Sapoletova N.A.	PHOTOCATALYSTS BASED ON ANODIC TITANIA PHOTONIC CRYSTALS
18:30–20:00			Poster session

Hall Rebinder

Chair: Kozaderov O.A., Safonov V.A.

14:00–14:30	KL		
14:30–14:50			
14:50–15:10	IL	Skundin A.M.	FEATURES OF INTERPRETING THE RESULTS OF ELECTROCHEMICAL EXPERIMENTS
15:10–15:30	IL	Krivenko A.G.	PROBLEMS OF CORRECT MEASUREMENTS OF NANOSTRUC-TURED ELECTRODES
15:30–15:50	IL	Astafev E.A.	ELECTROCHEMICAL NOISE: OBJECTS AND PROBLEMS
15:50–16:30			Coffee-break

Chair: Astafev E.A., Smirnova N.V.

16:30–16:45	OL	Safonov V.A.	A MODEL DESCRIPTION OF THE POTENTIAL DISTRIBUTION AT THE INTERFACE OF A RENEWABLE GRAPHITE ELECTRODE WITH ELECTROLYTE SOLUTIONS
16:45–17:00	OL	Spasov D.D.	STUDY OF PLATINUM ELECTROCATALYSTS ON CARBON SUPPORT USING FRUMKIN ADSORPTION ISOTHERMS
17:00–17:15	OL	Kozaderov O.A.	KINETICS OF NUCLEATION AND GROWTH DURING CATHODIC CO-DEPOSITION OF ZINC AND NICKEL FROM AMMONIUM CHLORIDE ELECTROLYTES
17:15–17:30	OL	Filippov V.L.	COPPER GALVANIC REPLACEMENT PROCESS IN ETHALINE-BASED SOLUTIONS

October 8

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:30–17:45	OL	Shestakov A.F.	QUANTUM CHEMICAL MODELLING REDUCTIVE METALLATION OF ORGANIC CATHODE MATERIALS
17:45–18:00	OL	Mareev S.A.	TWO-DIMENSIONAL MODEL OF ANODIC OXIDATION PROCESS OF ORGANIC POLLUTANTS WITH BULK ANODE
18:00–18:15	OL	Stulov Yu.V.	THEORETICAL-EXPERIMENTAL STUDY OF CHARGE TRANSFER PROCESS IN SAMARIUM-CONTAINING MELTS
18:15–18:30	OL	Popov A.G.	AUTOENCODER NETWORK FOR ANALYSIS OF ELECTROCHEMICAL IMPEDANCE OF LITHIUM-ION BATTERIES
18:30–20:00			Poster session

October 9

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

Hall Frumkin

Chair: Nekrasov A.A., Safonov V.A.

14:00–14:30	KL	Lev Ovadia	HYDROGEN PEROXIDE SOL GEL PROCESSING OF LI, NA, AND K METAL ION BATTERY ANODES
14:30–14:50	IL	Medvedev D.A.	CHEMICAL AND ELECTROCHEMICAL ASPECTS OF UTILIZING THE BUFFER LAYERS IN SOLID OXIDE FUEL CELLS
14:50–15:10	IL	Uvarov N.F.	HYBRID NANOCOMPOSITE SOLID ELECTROLYTES
15:10–15:30	IL	Gribkova O.L.	ELECTROCHEMICAL SYNTHESIS OF NEW PHOTOCONDUCTIVE MATERIALS BASED ON POLY-3,4-ETHYLENEDIOXYTHIOPHENE
15:30–15:45	OL	Lebedeva M.V.	POLYANILINE/CARBON COMPOSITE AS ELECTRODES FOR SUPERCAPACITORS
15:45–16:00	OL	Kuzmin S.M.	ELECTROCHEMICAL METHODS FOR PORPHYRIN SEMICONDUCTOR FILMS FORMATION AND INVESTIGATION
16:00–16:30			Coffee-break
<i>Chair: Gribkova O.L., Medvedev D.A.</i>			
16:30–16:45	OL	Kabanova V.A.	ELECTRODEPOSITION OF PHOTOACTIVE LAYERS BASED ON POLYPYRROLE AND ZINC PHTHALOCYANINATE
16:45–17:00	OL	Krokhalev A.V.	INFLUENCE OF PHASE COMPOSITION OF MATERIALS OF "TI-FE" SYSTEM WITH INCREASED TITANIUM CONTENT ON THEIR HYDROGEN CAPACITY
17:00–17:15	OL	Orlova E.I.	SYNTHESIS AND PHYSICAL PROPERTIES OF THE OXYGEN-CONDUCTING MLN ₄ M ₀ 3O ₁₅ F (M = LI, NA, K, LN = LA-DY) COMPOUNDS FAMILY
17:15–17:30	OL	Gavrilin I.M.	ELECTROCHEMICAL FORMATION OF NANOSTRUCTURES BASED ON GERMANIUM
17:30–17:45	OL	Ivanova N.A.	APPLICABILITY OF STRUCTURED CARBON MATERIALS FOR PERFORMANCE AND DURABILITY IMPROVEMENT OF THE PEMFC ELECTRODES

October 9

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:45–18:00	OL	Gnedenkov A.S.	HYBRID COATINGS OF A NEW GENERATION WITH THE FUNCTION OF TARGETED DELIVERY OF ACTIVE COMPONENTS ON THE SURFACE OF MAGNESIUM ALLOYS
18:00–18:15	OL	Grushevskaya S.N.	PHOTOELECTROCHEMISTRY OF COPPER OXIDES ANODICALLY FORMED ON BRASSES WITH DIFFERENT PHASE COMPOSITION
18:15–18:30	OL	Brodskii V.A.	THE USE OF ELECTRODE MATERIALS BASED ON PBO ₂ DOPED WITH TiO ₂ AS A REPLACEMENT FOR RTO ANODE IN THE ELECTROFLOTATION PROCESS
18:30–20:00			Poster session
Hall Rebinder			
<i>Chair: Burmistrova D.A., Molotkovskii R.Yu.</i>			
14:00–14:30	KL		
14:30–14:50			
14:50–15:10	IL	Akimov S.A.	PORE FORMATION IN LIPID MEMBRANES: INFLUENCE OF TENSION, SUPPORT, SOLVENT
15:10–15:30	IL	Sokolov V.S.	THE FAST TRANSFER OF PROTONS LIBERATED FROM PHOTOACTIVATE COMPOUND ON THE BOUNDARY OF THE LIPID MEMBRANE
15:30–15:50	IL	Vil V.A.	ELECTROCHEMICALLY MEDIATED FORMATION OF C-C AND C-HET BONDS
15:50–16:30			Coffee-break
<i>Chair: Akimov S.A., Vil V.A.</i>			
16:30–16:45	OL	Burmistrova D.A.	REDOX-TRANSFORMATIONS OF H ₂ S, RSH AND RSSR IN THE PRESENCE OF ORGANOCATALYSTS
16:45–17:00	OL	Ustyuzhanin A.O.	ELECTROCHEMICAL CARBOXYLATION USING CARBON DIOXIDE
17:00–17:15	OL	Polyakov M.V.	ELECTROCHEMICAL BEHAVIOR OF CYCLIC OZONIDE AND AMINOPEROXIDE IN ACETONITRILE MEDIUM ON GOLD
17:15–17:30	OL	Molotkovskii R.Yu.	THE EFFECTIVENESS OF PROTEIN-FREE FUSION OF LIPID DROPLETS IS DETERMINED BY THE LIPID COMPOSITION OF THEIR SHELLS

October 9

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:30–17:45	OL	Sumarokova M.V.	CHANGING IN THE SHAPE OF THE LIPID MEMBRANE BY INTERACTION OF AMPHIPATHIC HELICES AND CONICAL LIPIDS
17:45–18:00	OL	Pavlov R.V.	IMPACT OF S-PROTEIN FUSION PEPTIDES OF CORONA-VIRUSES ON THE STABILITY AND SHAPE OF LIPID MEMBRANES
18:00–18:15	OL	Pinigin K.V.	MOLECULAR DYNAMICS METHOD FOR DETERMINATION OF ELASTIC PARAMETERS OF MULTICOMPONENT LIPID MEMBRANES
18:30–20:00			Poster session

October 10

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

Hall Frumkin

Chair: Krivenko A.G., Skundin A.M.

14:00–14:30	KL	Aurbach Doron	THE CHALLENGE OF RECHARGEABLE BATTERIES WITH VERY HIGH ENERGY DENSITY AND PROLONGED CYCLE LIFE: FROM BASIC SCIENCE TO PRACTICAL DEVICES
14:30–14:50	IL	Kazarinov I.A.	FLOW BATTERIES ON THE BASIS OF QUINONE AND ANTHRAQUINONE DERIVATIVES FOR LARGE-SCALE ACCUMULATION AND STORAGE OF ELECTRIC ENERGY
14:50–15:10	IL	Smirnova N.V.	SUPERCAPACITORS BASED ON CARBON MATERIALS OBTAINED FROM WASTE PROCESSING PLANT RAW MATERIALS
15:10–15:30	IL	Stakhanova S.V.	APPROACHES TO THE DEVELOPMENT OF ELECTROLYTES FOR SUPERCAPACITORS WITH EXTENDED OPERATION TEMPERATURE RANGE
15:30–15:45	OL	Kushkhov Kh.B.	INVESTIGATION THE JOINT ELECTROCHEMICAL REDUCTION MECHANISM OF RARE-EARTH IONS AND IRON TRIAD METALS IN THE KCL-NACL-CSCL EUTECTIC MELT
15:45–16:00	OL	Kuznetsov S.A.	NIOBIUM AND TANTALUM IN MOLTEN SALTS: TWINS OR BROTHERS?
16:00–16:30			Coffee-break
<i>Chair: Kazarinov I.A., Smirnova N.V.</i>			
16:30–16:45	OL	Nefedkin S.I.	PHYSICO-CHEMICAL METHODS OF INVESTIGATIONS IN ELECTROCHEMICAL POWER ENGINEERING TECHNOLOGIES
16:45–17:00	OL	Shcheglov P.A.	FAST-ACTIVATING RESERVE POWER SOURCES: THE ROLE OF PHYSICO-CHEMICAL PROPERTIES OF ELECTRODE MATERIALS IN THE IMPROVEMENT OF DISCHARGE PERFORMANCE
17:00–17:15	OL	Rychagov A.Yu.	WAYS TO SUPPRESS OF SELF-DISCHARGE IN A NON-FLOWING ZINC-BROMINE BATTERY
17:15–17:30	OL	Nikitina V.A.	THE INFLUENCE OF THE CRYSTAL STRUCTURE OF NICKEL AND IRON-BASED ELECTROCATALYSTS ON THEIR ACTIVITY IN OXYGEN EVOLUTION REACTION IN ALKALINE MEDIA

October 10

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:30–17:45	OL	Ulikhin A.S.	LITHIUM-ION CONDUCTIVE MATERIALS BASED ON N-METHYL-N-PROPYLPIPERIDINIUM SALT
17:45–18:00	OL	Chernysheva D.V.	N, S CO-DOPED CARBON ELECTRODE MATERIALS FROM PLANT BIOMASS CHEMICAL PROCESSING WASTES
18:00–18:15	OL	Asmolov E.S.	SELF-DIFFUSIOPHORESIS OF CATALYTIC MICROSWIMMERS
18:15–18:30	OL	Potapov A.M.	ELECTROCHEMICAL SIMULATORS OF Am ²⁺ AND Cm ³⁺ IONS IN A MOLTEN LiCl-KCl EUTECTIC
18:30–20:00			Poster session

Hall Rebinder

Chair: Mikhelson K.N.

14:00–14:30	KL		
14:30–14:50			
14:50–15:10			
15:10–15:30			
15:30–15:50	IL	Ermakov S.S.	CURRENT INTERRUPTION TECHNIQUES IN ELECTROANALYSIS
15:50–16:30			Coffee-break

Chair: Ermakov S.S., Stakhanova S.V.

16:30–16:45	OL	Mikhelson K.N.	ION-SELECTIVE ELECTRODES IN NON-ZERO CURRENT MODE: CAN WE USE THE NERNST EQUATION IF CURRENT FLOWS THROUGH THE ELECTRODE?
16:45–17:00	OL	Zilberg R.A.	ENANTIOSELECTIVE SENSORS: ANALYTICAL CAPABILITIES AND PROSPECTS
17:00–17:15	OL	Bashkirov P.V.	SENSING OF MOLECULES AND MOLECULAR MACHINES WITH ELASTIC NANOPORES
17:15–17:30	OL	Keresten V.M.	THE STUDY OF THE POTENTIOMETRIC RESPONSE OF ION-SELECTIVE ELECTRODES CONTAINING TWO NEUTRAL IONOPHORES AND ION-EXCHANGER
17:30–17:45	OL	Porfireva A.V.	CONDITIONS FOR DEPOSITING OF ELECTROACTIVE COATINGS BASED ON DYES FROM DEEP EUTECTIC SOLVENTS

October 10

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:45–18:00	OL	Kolokolov D.I.	IONIC MOBILITY IN THE COMPOSITE (IONIC LIQUIDS)@MOF ELECTROLYTES PROBED BY SOLID STATE NMR
18:00–18:15	OL	Yusupova A.R.	STRUCTURE AND PROPERTIES OF SOLVATE COMPLEX OF LITHIUM TETRACHLOROALUMINATE WITH SULFUR DIOXIDE
18:15–18:30	OL	Aleshina V.Kh.	GALVANIC METALLIZATION OF HOLES OF MULTILAYER PRINTED CIRCUIT BOARDS

October 11

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

Hall Frumkin

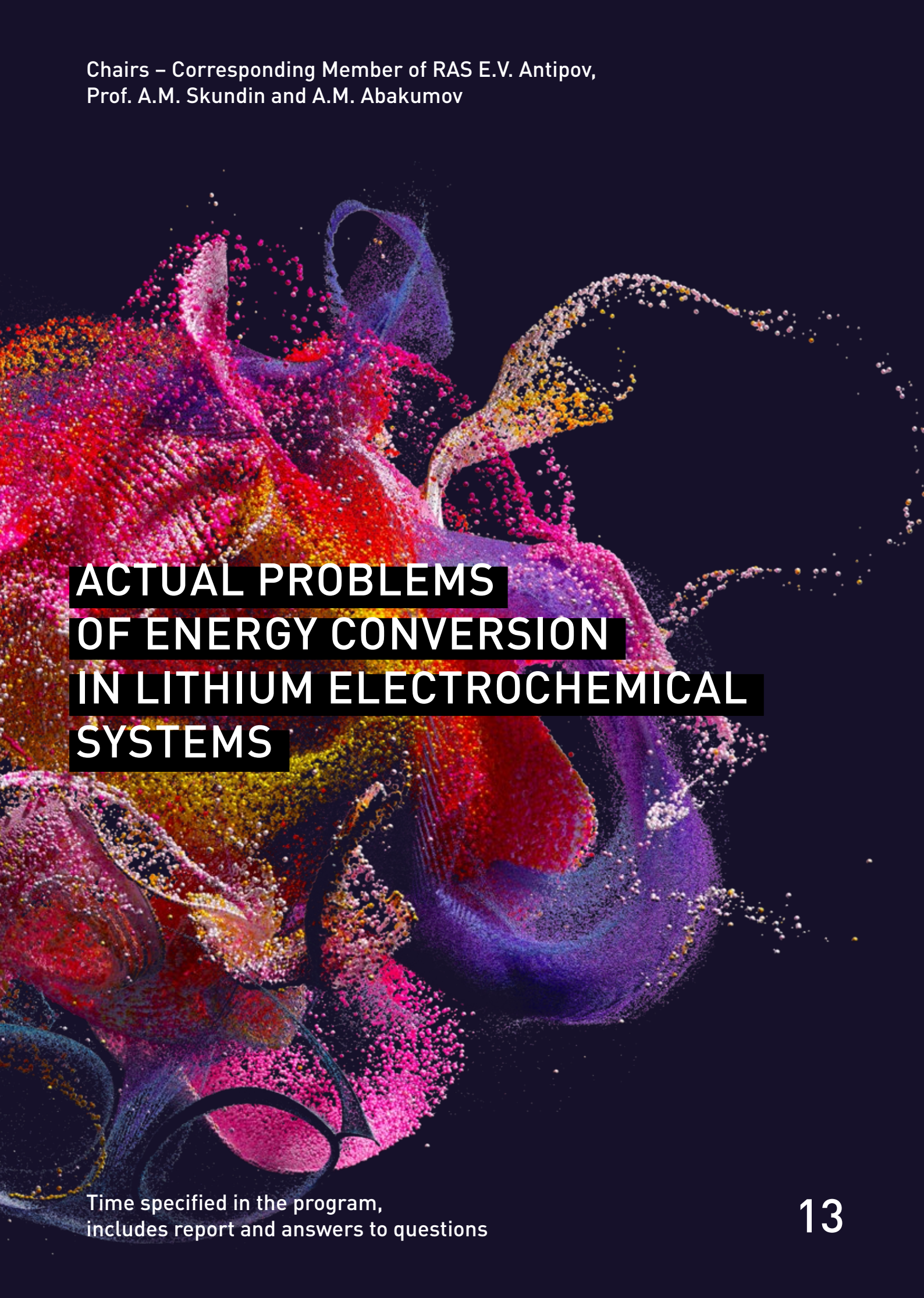
Chair: Zolotukhina E.V., Pismenskaya N.D.

9:00–9:30	KL	Rubinstein I.	ELECTROKINETIC LENGTH SELECTION IN ELECTRODEPOSITION
9:30–10:00	KL	Biesheuvel M.	RESOLVING SOME CONTROVERSIES IN WATER AND ION TRANSPORT IN POLYMER MEMBRANES FOR WATER DESALINATION: HOW DO IONS AND WATER MOLECULES MOVE AND PARTITION?
10:00–10:20	IL	Nikonenko V.V.	CONCENTRATION POLARIZATION IN ELECTROMEMBRANE SYSTEMS
10:20–10:35	OL	Filippov A.N.	PERMEABILITY OF CHARGED MACROPOROUS GLASSES
10:35–10:50	OL	Ryzhkov I.I.	ELECTRO / BAROMEMBRANE PROCESS FOR SEPARATION OF IONIC DYES SOLUTIONS USING ELECTRICALLY CONDUCTIVE MEMBRANES

Chair: Ryzhkov I.I., Filippov A.N.

11:00–11:15	OL	Vorotyntsev M.A.	EXPRESS METHOD FOR DETERMINATION OF CROSSOVER PARAMETERS OF SOLUTE ELECTROACTIVE COMPONENTS
11:15–11:30	OL	Pismenskaya N.D.	MECHANISMS OF ION TRANSFER IN ION EXCHANGE MEMBRANE/AMPHOLYTE SOLUTION SYSTEMS IN ELECTRODIALYSIS
11:30–11:45	OL	Gorobchenko A.D.	NON-STATIONARY PHOSPHATE TRANSPORT THROUGH AN ANION-EXCHANGE MEMBRANE DURING ELECTRODIALYSIS: EXPERIMENTS AND MODELING
11:45–12:00		Krykin M.D.	THE APPEARANCE OF ELECTRICAL PHENOMENA IN AN ENERGETIC SUBSTANCE UNDER SHOCK LOADING
12:30–14:00			Coffee-break, lunch

Chairs – Corresponding Member of RAS E.V. Antipov,
Prof. A.M. Skundin and A.M. Abakumov



**ACTUAL PROBLEMS
OF ENERGY CONVERSION
IN LITHIUM ELECTROCHEMICAL
SYSTEMS**

Time specified in the program,
includes report and answers to questions

October 8

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

Hall Semenov

Chair: Antipov E.V., Kosova N.V.

14:00–14:30	KL	Abakumov A.M.	LAYERED OXIDE CATHODES FOR LI-ION BATTERIES: RESEARCH DIRECTIONS
14:30–14:50	IL	Khasanova N.R.	НОВЫЕ ВЫСОКОЕМКИЕ АНОДНЫЕ МАТЕРИАЛЫ ДЛЯ НАТРИЙ-ИОННЫХ АККУМУЛЯТОРОВ
14:50–15:10	IL	Kornilov D. Yu.	IMPROVING THE SAFETY OF LITHIUM-ION BATTERIES: PROTECTION STEPS
15:10–15:30	IL	Likhonosov S.D.	MAIN RESULTS ON DEVELOPMENT OF LITHIUM-ION BATTERIES FOR SPACE AND SPECIAL PURPOSE AND PLANS OF MODERNISATION OF THEIR CHARACTERISTICS
15:30–15:50		Discussion	
15:50–16:15			Coffee-break

Hall Semenov

Chair: Likhonosov S.D., Kornilov D.Yu.

16:15–16:30	OL	Semenikhin O.A.	STUDY OF ALLOY FORMATION AT ALUMINUM ANODES OF LI-ION BATTERIES USING IMPEDANCE SPECTROSCOPY
16:30–16:45	OL	Luchkin S.Yu.	SOLID ELECTROLYTE INTERPHASE FORMATION IN THE LI-ION BATTERY
16:45–17:00	OL	Tashlanov M.Yu.	ANODE MATERIALS AND SOLID ELECTROLYTES BASED ON OXYGEN-DEFICIENT PYROCHLORES FOR POTASSIUM-ION BATTERIES
17:00–17:15	OL	CherkaShchenko I.R.	MIXED NIOBIUM-VANADIUM PHOSPHATES AS ANODE MATERIALS FOR METAL-ION BATTERIES
17:15–17:30	OL	Kudryashova Yu.O.	GERMANIUM NANOSTRUCTURES FOR LITHIUM- AND SODIUM-ION BATTERIES
17:30–17:45	OL	Boev A.O.	FIRST-PRINCIPLES STUDY OF SURFACE SEGREGATION IN LICOO2
17:45–18:00	OL	Komaiko A.I.	QUANTIFYING THE IMPACT OF PHASE TRANSITION-RELATED POLARIZATION LOSSES ON METAL-ION BATTERY PERFORMANCE AT LOW TEMPERATURES

October 8

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

18:00–18:15	OL	Borisevich S.S.	EVALUATION OF REDOX POTENTIALS OF ELECTROLYTES OF LITHIUM-ION BATTERIES BY METHODS OF COMPUTATIONAL CHEMISTRY
18:15–18:30	OL	Khechinashvili A.R.	SCIENTIFIC AND METHODOLOGICAL APPROACHES TO LITHIUM-ION STORAGE BATTERY SAFETY AND FAULT TOLERANCE IMPROVEMENT

October 9

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

Hall Semenov

Chair: Ivanishchev A.V., Yarmolenko O.V.

14:00–14:30	KL	Kulova T.L.	ANODE-FREE LITHIUM AND SODIUM BATTERIES
14:30–14:50	IL	Nedoluzhko A.I.	SILICON ANODE MATERIALS FOR LITHIUM-ION BATTERIES WITH THE INCREASED SPECIFIC ENERGY
14:50–15:10	IL	Fedotov S.S.	DEVELOPMENT OF NEW-GENERATION ELECTRODE MATERIALS FOR NA-ION BATTERIES
15:10–15:30	IL	Bushkova O.V.	CHEMICAL PROCESSES AT THE ELECTRODE/ELECTROLYTE INTERFASE IN LITHIUM-ION BATTERIES
15:30–15:50	IL	Kosova N.V.	HIGH-ENERGY ELECTRODE MATERIALS WITH DISORDERED ROCK SALT STRUCTURE
15:50–16:15			Coffee-break

Hall Semenov

Chair: Bushkova O.V., Skundin A.M.

16:15–16:30	OL	Savina A.A.	HIGH ENERGY DENSITY Ni-RICH LAYERED CATHODE MATERIALS WITH THE IMPROVED MICROSTRUCTURE
16:30–16:45	OL	Moiseev I.A.	MICROCRACK GROWTH SUPPRESSION IN Mg-SUBSTITUTED Ni-RICH NMCS FOR Li-ION BATTERIES
16:45–17:00	OL	Katorova N.S.	ORIGINS OF DEGRADATION OF LITHIUM-ION BATTERY WITH $\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ LAYERED OXIDE AND GRAPHITE
17:00–17:15	OL	Babkin A.V.	SPHERICAL COMPOSITE MICROPARTICLES LiFePO_4 FOR HIGH-POWER LITHIUM-ION BATTERIES
17:15–17:30	OL	Zakharkin M.V.	POLYANIONIC CATHODE MATERIALS FOR SODIUM-ION BATTERIES BASED ON MN AND FE
17:30–17:45	OL	Shevchenko V.A.	EFFECT OF Ni/Fe/Mn RATIO ON ELECTROCHEMICAL PROPERTIES OF THE $\text{O}_3\text{-NaNi}_{1-x-y}\text{Fe}_x\text{Mn}_y\text{O}_2$ ($0.25 \leq x, y \leq 0.75$) CATHODE MATERIALS FOR Na-ION BATTERIES
17:45–18:00	OL	Matsaev B.A.	NOVEL PHOSPHATES $\alpha\text{-Na}_x\text{Fe}_{1-y}\text{Cr}_y\text{PO}_4$ AS CATHODE MATERIALS FOR SODIUM-ION BATTERIES

October 9

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

18:00–18:15	OL	Marshenya S.N.	SYNTHESIS, STRUCTURE AND ELECTROCHEMICAL PERFORMANCE OF A NEW POTASSIUM-ION SOLID-CONDUCTOR KSCPO ₄ F WITH KTIPO ₄ STRUCTURE TYPE
18:15–18:30	OL	Nazarov E.E.	MORPHOLOGY DESIGN FOR THE PRODUCTION OF HIGH VOLUMETRIC ENERGY DENSITY TRIPHYLITE-TYPE CATHODE MATERIALS

October 10

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

Hall Semenov

Chair: Abakumov A.M., Nedoluzhko A.I.

14:00–14:30	KL	Drozhdzhin O.A.	PHOSPHATE CATHODE MATERIALS FOR LITHIUM-ION BATTERIES AND METHODS FOR THEIR IMPROVEMENT
14:30–14:50	IL	Ivanishchev A.V.	DIAGNOSTICS OF ELECTROCHEMICAL PROCESSES IN HETEROGENEOUS INTERCALATION ELECTRODE MATERIALS AS A BASIS FOR IMPROVING OF THEIR CHARACTERISTICS
14:50–15:10	IL	Yarmolenko O.V.	PERSPECTIVE GEL ELECTROLYTES FOR LITHIUM POWER SOURCES
15:10–15:30	IL	Tao Liu	STRUCTURAL MODULATION AND LARGE-SCALE PREPARATION OF PHOSPHATE-BASED COMPOUNDS FOR SODIUM ION BATTERIES
15:30–15:50	IL	Sergeev V.G.	WATER-SOLUBLE POLYMER BINDERS FOR LITHIUM-ION BATTERY ELECTRODES
15:50–16:15			Coffee-break

Hall Semenov

Chair: Levin O.V., Astafev E.A.

16:15–16:30	OL	Morkhova E.A.	THEORETICAL AND EXPERIMENTAL STUDY OF CONDUCTIVITY IN THE $\text{Na}_6\text{M}_2(\text{CO}_3)_4\text{SO}_4$ (M = Mg, Mn, Fe, Co, Ni) STRUCTURES
16:30–16:45	OL	Ilina E.A.	PROSPECTS FOR THE TRANSITION TO THIN-FILM SOLID ELECTROLYTES IN THE CREATION OF ALL-SOLID-STATE BATTERIES
16:45–17:00	OL	Slesarenko A.A.	STUDY OF ELECTROLYTE SYSTEMS WITH COMPETITIVE ION TRANSPORT IN MIXED SOLVENTS ACCORDING TO NMR AND QUANTUM CHEMICAL MODELING DATA
17:00–17:15	OL	Slesarenko N.A.	MECHANISM OF IONIC TRANSPORT IN NANOCOMPOSITE POLYMER ELECTROLYTES WITH THE INTRODUCTION OF IONIC LIQUID ACCORDING TO NMR DATA
17:15–17:30	OL	Klimov V.V.	QUASI-SOLID-STATE POLYMER ELECTROLYTES FOR LI-ION BATTERIES
17:30–17:45	OL	Shmatova O.I.	FLUORINATED ELECTROLYTES FOR LITHIUM-ION BATTERIES

October 10

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

17:45-18:00	OL	Shraer S.D.	THE CORRELATION BETWEEN SODIUM IONS STORAGE MECHANISM AND ANIONIC COMPOSITION IN KTP-NaVPO ₄ F _{1-x} O _x
18:00-18:15	OL		
18:15-18:30	OL		
18:30-20:00			Poster session

October 11

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

Hall Semenov

Chair: Drozhzhin O.A., Кулова Т.Л.

9:00–9:30	KL	Levin O.V.	CONTROL OF CONDUCTIVITY WINDOW OF POTENTIORESISTIVE MATERIALS FOR PROTECTION OF LITHIUM-ION BATTERIES
9:30–10:00	IL	Aksenov D.A.	ATOMISTIC MODELING OF INTERFACES AND IONIC TRANSPORT IN METAL-ION BATTERIES
10:00–10:20	IL	Makanova N.A.	DEVELOPMENT OF LOW-TEMPERATURE SUPERCAPACITORS WITH BIO-WASTE DERIVED ACTIVATED CARBON AND SAFE ELECTROLYTES
10:20–10:40	IL	Astafev E.A.	RUSSIAN EQUIPMENT FOR ELECTROCHEMICAL RESEARCH SMARTSTAT
10:40–11:00	IL	Dai Changsong	RECYCLING OF SPENT LITHIUM ION BATTERIES INCLUDING ELECTROLYTE AND CATHODE MATERIALS
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS S.N. Kalmykov,
Corresponding Member of RAS A.A. Trifonov



f-BLOCK ELEMENTS: RECENT ADVANCES AND CHALLENGES

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM F-BLOCK ELEMENTS RECENT ADVANCES AND CHALLENGES

Hall Curie

Chair: Konchenko S.N.

14:00–14:30	KL	Nenajdenko V.G.	DESIGN AND SYNTHESIS OF PHENANTHROLINEDIAMIDES FOR SEPARATION OF f-BLOCK ELEMENTS
14:30–14:50	IL	Utochnikova V.V.	LUMINESCENT THERMOMETER: FROM FUNDAMENTALS TO THE PROTOTYPE
14:50–15:10	IL	Bhattacharyya A.	DIFFERENT APPROACHES TO IMPROVE AMERICIUM AND CURIUM SEPARATION
15:10–15:30	IL	Zamoryanskaya M.V.	STUDY OF THE COMPOSITION AND STRUCTURE OF OXIDE MATERIALS USING LOCAL CATHODOLUMINESCENCE METHOD
15:30–15:50	IL	Mitrofanov A.A.	THE QUESTIONS OF DEVELOPMENT OF COMPUTATIONAL CHEMISTRY METHODS FOR f-ELEMENTS
15:50–16:15			Coffee-break

Hall Curie

Chair: Bhattacharyya A.

16:15–16:30	OL	Puntus L.N.	CAN PI-BONDED LIGANDS BE AN EFFECTIVE LIGHT-HARVESTING ANTENNA FOR LANTHANIDE COMPLEXES?
16:30–16:45	OL	Orlova A.V.	LANTHANIDE PYRENATES: FEATURES OF REACHING A HIGH QUANTUM YIELD IN POWDER AND OBTAINING SENSORY MATERIALS
16:45–17:00	OL	Brel V.K.	PHOSPHORUS- AND PHOSPHORUS-NITROGEN LIGANDS AS EFFECTIVE COMPLEXING AGENTS FOR THE CREATION OF LIGHT-EMITTING MATERIALS
17:00–17:15	OL	Golubina E.N.	INTENSIFICATION OF REE EXTRACTION BY LOCAL VIBRATION IN THE DYNAMIC INTERFACIAL LAYER
17:15–17:30	OL	Tcelykh L.O.	Tb-Eu BENZOATES FOR LUMINESCENT THERMOMETRY
17:30–17:45	OL	Pushkin D.V.	NEW CINNAMATE-CONTAINING URANIL COMPLEXES
18:30–20:00			Poster session

October 9

SYMPOSIUM F-BLOCK ELEMENTS RECENT ADVANCES AND CHALLENGES

Hall Curie

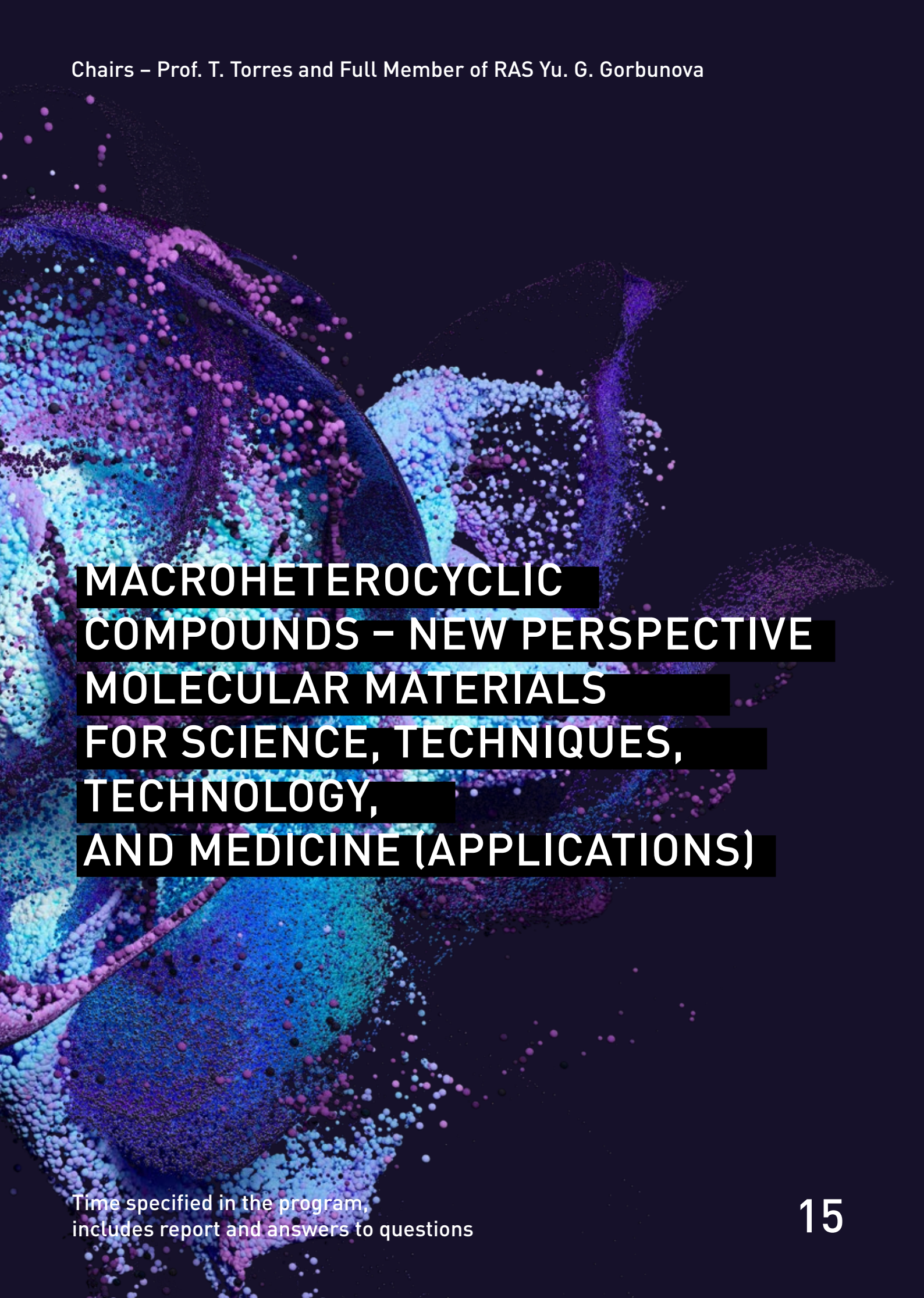
Chair: Nenajdenko V.G.

14:00–14:30	KL	Konchenko S.N.	d/f-POLYPNICTIDES DERIVED BY NON-CLASSICAL Ln(III) COMPOUNDS
14:30–14:50	IL	Petrov V.G.	LIQUID-LIQUID EXTRACTION TECHNOLOGIES FOR SEPARATION TRIVALENT f-ELEMENTS IN THE NUCLEAR FUEL CYCLE
14:50–15:10	IL	Deyneko D.V.	PHOSPHORS – REE ³⁺ ACTIVATED STRONTIUM PHOSPHATES: CRITERIA FOR PROPERTY FORMATION
15:10–15:30	IL	Taydakov I.V.	HALOGENATION OF LIGANDS AS A WAY TO CONTROL THE LUMINESCENCE EFFICIENCY OF EUROPIUM(III) 1,3-DIKETONATES
15:30–15:50	IL	Roitershtein D.M.	UNIVERSAL TOOLS FOR RARE EARTH COMPLEX DESIGN: N-HETEROCYCLIC TRIDENTATE LIGANDS
15:50–16:15			Coffee-break

Hall Curie

Chair: Zamoryanskaya M.V.

16:15–16:30	OL	Smirnova K.S.	STRUCTURAL FEATURES OF PHOTOLUMINESCENT RARE EARTH METALS COMPLEXES BASED ON β -ENAMINDIONE AND ISOTHIAZOLE DERIVATIVES
16:30–16:45	OL	Karpov K.V.	DEEP-LEARNING ENHANCED DESIGN OF COMPLEXING AGENTS FOR REPROCESSING OF SPENT NUCLEAR FUEL
16:45–17:00	OL	Vostrikova K.E.	PROBING THE STRENGTH OF MAGNETIC EXCHANGE COUPLING IN LANTHANIDE – RADICAL SYSTEM
17:00–17:15	OL	Sinitza D.K.	COMPLEXES OF RARE-EARTH ELEMENTS WITH IMINOPHOSPHONAMIDE LIGANDS: SYNTHESIS, PROPERTIES, REACTIVITY
17:15–17:30	OL	Mereshchenko A.S.	LUMINESCENT HETEROMETALLIC Eu(III)-BASED TEREPHTHALATE MOFS
17:30–17:45	OL	Antipov S.V.	STRUCTURAL AND DYNAMICAL PROPERTIES OF THE ThF ₄ -LiF-KF MELT ALTERED BY Mg CATIONS



**MACROHETEROCYCLIC
COMPOUNDS – NEW PERSPECTIVE
MOLECULAR MATERIALS
FOR SCIENCE, TECHNIQUES,
TECHNOLOGY,
AND MEDICINE (APPLICATIONS)**

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

Hall Chugaev

Chair: Tomas Torres

14:00–14:30	KL	Roberto Paolesse	PORPHYRINOIDS BASED CHEMICAL SENSORS
14:30–14:50	IL	Kalinina M.A.	COMBINATORIAL 2D-3D SELF-ASSEMBLY OF FUNCTIONAL HYBRID MATERIALS
14:50–15:10	IL	Martynov A.G.	SUPRAMOLECULAR TAILORING OF THE MAGNETIC PROPERTIES OF LANTHANIDE TRISPHTHALOCYANINATES
15:10–15:30	IL	Pakhomov G.L.	SYNTHETIC AND NATURAL ETIOPORPHYRINS AS THIN-FILM MATERIALS FOR OPTOELECTRONIC APPLICATIONS
15:30–15:50	OL	Tameev A.R.	PHOTOCONDUCTIVITY, ELECTROLUMINESCENCE AND ELECTRON MOBILITY IN COMPOSITES WITH SEMISYNTHETIC MACROCYCLIC COMPOUNDS
15:50–16:15			Coffee-break

Hall Chugaev

Chair: Stuzhin P.A.

16:15–16:30	OL	Safonova E.A.	PHOSPHORUS (V) TETRAPYRROLIC COMPLEXES: FROM SYNTHESIS TO BIOMEDICAL APPLICATIONS
16:30–16:45	OL	Zvyagina A.I.	SUPRAMOLECULAR ASSEMBLY OF ULTRATHIN HYBRIDS BASED ON GRAPHENE OXIDE AND ZINC PORPHYRINATE FOR ORGANIC ELECTRONICS
16:45–17:00	OL	Volostnykh M.V.	OPTICAL NANOSENSORS BASED ON PALLADIUM(II) AND PLATINUM(II) PORPHYRINATES FOR THE DETERMINATION OF DISSOLVED OXYGEN IN LIVING SYSTEMS
17:00–17:15	OL	Ermakova E.V.	FLUORESCENT MATERIALS BASED ON QUINOXALINE DERIVATIVES
17:15–17:30	OL	Faraonov M.A.	MAGNETIC COUPLING IN HETEROMETALLIC COORDINATION COMPLEXES OF METAL MACROHETEROCYCLES

October 8

SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

17:30–17:45	OL	Shtarev D.S.	DEPENDENCE OF LUMINESCENCE OF HYBRID CRYSTALS OF THE TYPE $[\text{NH}_3-(\text{CH}_2)_n-\text{CH}_3]\text{PbX}_4$ ON THE STRUCTURE OF THE ORGANIC CATION AND THE TYPE OF ANION
17:45–18:00	OL	Nguyen M.T.	FLUOROUS PORPHYRINOIDS FOR ENHANCED PHOTODYNAMIC THERAPY

October 9

SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

Hall Chugaev

Chair: Kalinina M.A.

14:00–14:30	KL	Stuzhin P.A.	NOVEL PERSPECTIVE MACROHETEROCYCLES - PHTHALOCYANINE ANALOGUES WITH FUSED HETEROCYCLES
14:30–14:50	IL	Gushchin A.L.	GOLD COMPLEXES BASED ON N-HETEROCYCLIC LIGANDS: SYNTHESSES, NON-COVALENT INTERACTIONS AND APPLICATIONS
14:50–15:10	IL	Ovsyannikov A.S.	APPROACHES FOR RATIONAL DESIGN OF THE CRYSTALLINE MATERIALS USING COORDINATION COMPOUNDS OF (THIA)CALIX4ARENES
15:10–15:30	OL	Tskhovrebov A.G.	EXPLORING REACTIONS OF AMBIPHILIC SELENYL REAGENTS WITH UNSATURATED SUBSTRATES: SYNTHESIS, STRUCTURES, AND IMPLICATIONS TO SUPRAMOLECULAR CHEMISTRY
15:30–15:50	OL	Parfenyuk V.I.	CONDUCTING POLYMERS BASED ON PORPHYRINS WITH DIFFERENT MOLECULE STRUCTURES
15:50–16:15			Coffee-break

Hall Chugaev

Chair: Martynov A.G.

16:15–16:30	OL	Nazarova A.A.	SELF-ASSEMBLY OF PILLAR5ARENES CONTAINING AMINO ACIDS RESIDUES WITH NUMBER OF HERBICIDES
16:30–16:45	OL	Padnya P.L.	THERAPEUTIC NUCLEIC ACID DELIVERY SYSTEMS BASED ON DENDRONIZED THIALCALIXARENES
16:45–17:00	OL	Krasnovskaya O.O.	PHOTOACTIVATED Pt(IV) PRODRUGS: ONE-POT CHEMOTHERAPY, PHOTOTHERMAL AND PHOTODYNAMIC THERAPY
17:00–17:15	OL	Lobova N.A.	PHOTOCYCLOADDITION OF STYRYL DYES IN SOLUTION, SOLID AND GELS. PRE-ORGANIZATION WITH CAVITANDS
17:15–17:30	OL	Usacheva T.R.	THERMODYNAMICS OF COMPLEXFORMATION OF Ni(II) AND Ag(I) WITH HETERO-CROWN ETHERS IN AQUEOUS-ORGANIC SOLVENTS

October 9

SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

17:30–17:45	OL	Shiabiev I.E.	POLY(AMIDOAMINE) DENDRIMERS ON THE THIALCALIX4ARENE PLATFORM: SYNTHESIS AND INTERACTION WITH BIOSUBSTRATES
17:45–18:00	OL	Nazarov D.I.	COORDINATION OF DYSPROSIUM TO HEMIHEXAPHYRAZINE
18:30–20:00			Poster session

Chairs – Full Member of RAS S.N. Kalmykov,
Full Member of RAS B.F. Myasoedov



SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

Hall Kurchatov

Chair: Kalmykov S.N., Vinokurov S.E.

14:00–14:20	IL	Shadrin A.Yu. ²	TWO-COMPONENT NUCLEAR POWER: CHALLENGES OF RADIOCHEMICAL TECHNOLOGY DEVELOPMENT
14:20–14:50	KL	Hou X. ¹	PROGRESS OF RADIOCHEMICAL SEPARATION AND ANALYSIS IN CHINA
14:50–15:10	IL	Shiryaev A.A. ¹	U-RICH ZIRCON IN CHERNOBYL LAVA - FORMATION AND PROPERTIES
15:10–15:30	IL	Lamego F. ¹	RADIONUCLIDE BEHAVIOR AND HYDROGEOCHEMISTRY IN TWO DIFFERENT URANIUM MINES IN BRAZIL
15:30–15:50	IL	Wu W. ¹	COLLOIDS POSE AN ENHANCED TRANSPORT RISK OF ACTINIDE IN SATURATED POROUS MEDIA
15:50–16:15			Coffee-break

Hall Kurchatov

Chair: Hou X., Kuzmenkova N.V.

16:15–16:30	OL	Ozmen S.F. ¹	228-RADIUM MASS BALANCE APPROACH TO INVESTIGATE SUBMARINE GROUNDWATER DISCHARGE INTO THE CILICIAN BASIN, NORTHEASTERN MEDITERRANEAN SEA
16:30–16:45	OL	Burakov B.E. ²	CHEMICAL ALTERATION OF HIGHLY RADIOACTIVE URANIUM-BEARING MATERIALS FORMED AS A RESULT OF SEVERE NUCLEAR ACCIDENTS AT CHERNOBYL AND FUKUSHIMA-1 NPP'S
16:45–17:00	OL	Shi K. ¹	ULTRAFAST AND SELECTIVE CAPTURE OF ⁹⁹ TcO ₄ ⁻ /ReO ₄ ⁻ FROM WASTEWATER BY HYPERBRANCHED QUATERNARY AMMONIUM GROUP-FUNCTIONALIZED RESIN
17:00–17:15	OL	Smirnova A.A. ²	MODELING OF RADIOLYTIC STABILITY OF COMPLEXING AGENTS FOR SPENT NUCLEAR FUEL REPROCESSING AND RADIOPHARMACEUTICALS
17:15–17:30	OL	Nesterov S.V. ²	RADIATION-CHEMICAL INSIGHT INTO FUNCTIONAL STABILITY OF STRONTIUM-SELECTIVE MACROCYCLIC EXTRACTANTS

1 - Behavior of radionuclides in the environment

2 - Radiochemical technologies and fundamental radiochemistry

October 8

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

17:30–17:45	OL	Plakhova T.V. ²	PLUTONIUM AND NEPTUNIUM INORGANIC COMPOUNDS – WE STILL HAVE A LOT TO EXPLORE
17:45–18:00	OL	Zotina T. A. ¹	LONG-TERM TRENDS OF ARTIFICIAL RADIONUCLIDES IN BIOTA OF THE YENISEI RIVER (SIBERIA, RUSSIA)
18:00–18:15	OL	Vlasova I.E. ¹	ENVIRONMENTAL BEHAVIOR OF URANIUM ACCUMULATED AT NUCLEAR LEGACY SITES
18:15–18:30	OL	Marinin D.V. ²	NEW APPROACHES TO THE CONDITIONING OF SPENT ION-EXCHANGE RESINS (SIER)
18:30–20:00			Poster session

1 - Behavior of radionuclides in the environment

2 - Radiochemical technologies and fundamental radiochemistry

October 9

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

Hall Kurchatov

Chair: Petrov V.G., Romanchuk A.Yu.

14:00–14:30	KL	Meyer W. ²	IAEA'S PERSPECTIVE ON THE CHEMICAL CHALLENGES OF RADIOACTIVE WASTE ARISING FROM SMALL MODULAR REACTORS
14:30–14:50	IL	Gurzhiy V.V. ¹	CRYSTAL CHEMISTRY STUDIES OF SECONDARY MINERALS AND TECHNOGENIC MINERAL PHASES OF URANIUM TO ENSURE THE NUCLEAR FUEL CYCLE ENVIRONMENTAL SAFETY
14:50–15:10	IL	Pan D. ¹	COLLOIDS MEDIATED TRANSPORT OF URANIUM POSE CHALLENGE FOR THE IMMOBLIZATION REMEDIATION OF URANIUM CONTAMINATED SITES
15:10–15:30	IL	Aksenov N.V. ²	FIRST NUCLEAR CHEMISTRY EXPERIMENTS AT THE SUPERHEAVY ELEMENT FACTORY
15:30–15:50	IL	Karimi-Sabet J. ²	ON THE POTENCY OF MULTISCALE SIMULATION METHODS IN ANALYZING THE PERFORMANCE OF NUCLEAR FUEL UNDER IRRADIATION: A REVIEW
15:50–16:15			Coffee-break

Hall Kurchatov

Chair: Vlasova I.E., Semenkova A.S.

16:15–16:30	OL	Vidanov V.L. ²	STATUS MA SEPARATION PROCESSES AT «PRORYV» PROJECT
16:30–16:45	OL	Santos-Oliveira R. ²	APPLICATION OF GRAPHENE QUANTUM DOTS IN THE DECONTAMINATION OF RADIONUCLIDE-POLLUTED SURFACES
16:45–17:00	OL	Mikheykin S.V. ²	R&D TO SUPPORT DECOMMISSIONING ACTIVITIES
17:00–17:15	OL	Berihie G.K. ²	EVALUATION OF THE STATUS OF THE ETHIOPIAN NUCLEAR INFRASTRUCTURE DEVELOPMENT
17:15–17:30	OL	Koscheeva A.M. ²	THERMAL STABILITY OF SOLID-PHASE EXTRACTANTS BASED ON TRIBUTYL PHOSPHATE, N,N,N,N-TETRAOCTYLDIAMIDE OF DIGLYCOLIC ACID, DIBENZO-21-CROWN-7 IN NITRIC ACID SOLUTIONS, IN RELATION TO SNF REPROCESSING

1 - Behavior of radionuclides in the environment

2 - Radiochemical technologies and fundamental radiochemistry

October 9

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

17:30–17:45	OL	Guo Z.J. ²	BENZYL SUBSTITUTED 1,3-ALTERNATE CALIX[4] ARENE-CROWN-6 ETHERS FOR CESIUM SEPARATION FROM HIGH-LEVEL LIQUID WASTE
17:45–18:00	OL	Babain V.A. ²	DILUENTS IN RADIOCHEMISTRY. HISTORY AND CURRENT STATUS
18:00–18:15	OL	Kniznik L. ²	DEVELOPMENT OF A COMPREHENSIVE DECOMMISSIONING PLAN FOR NUCLEAR FACILITIES
18:15–18:30	OL	Rozenkevich M.B. ²	STATUS AND PROSPECTS FOR THE USE OF TECHNOLOGIES FOR HANDLING TRITIATED GAS AND WATER STREAMS
18:30–20:00			Poster session

1 - Behavior of radionuclides in the environment

2 - Radiochemical technologies and fundamental radiochemistry

October 10

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

Hall Kurchatov

Chair: Egorova B.V., Ermolaev S.V.

14:00–14:30	KL	Sadikov I.I. ³	OUTPUTTING OF GENERAL AND MEDICAL RADIOISOTOPE PRODUCTS IN UZBEKISTAN
14:30–14:50	IL	Zhuikov B.L. ³	DEVELOPMENT OF NEW METHODS FOR PRODUCING RADIOACTIVE ISOTOPES AS RESULT OF FUNDAMENTAL CHEMICAL RESEARCH
14:50–15:10	IL	Zeevaart J.R. ³	MITIGATION OF THE INHERENT RISK POSED BY THE RELEASE OF A DAUGHTER RADIOISOTOPE IN THE CASE OF AUGER EMITTING RADIONUCLIDES
15:10–15:30	IL	Tishchenko V. K. ³	THE DEVELOPMENT OF DIAGNOSTIC AND THERAPEUTIC ANTITUMOR RADIOPHARMACEUTICALS
15:30–15:50	IL	Fedorova O.A. ³	AZACROWN COMPOUNDS AND THEIR CONJUGATES WITH NANOPARTICLES, ANTIBODIES AND PEPTIDES AS A PLATFORM FOR RADIOPHARMACEUTICALS
15:50–16:15			Coffee-break

Hall Kurchatov

Chair: Lapshina E.V., Tishchenko V. K.

16:15–16:30	OL	Tyupina M.Y. ³	NEW ^{99m} Tc RADIOPHARMACEUTICALS FOR MYOCARDIAL METABOLIC PROCESSES
16:30–16:45	OL	Larenkov A.A. ³	IMPROVEMENT OF METHODOLOGICAL APPROACHES TO ANALYZING RADIOCHEMICAL PURITY OF RADIOPHARMACEUTICALS
16:45–17:00	OL	Rashed H.M. ³	INTRANASAL NANOEMULSION OF PREGABALIN: FORMULATION & RADIOKINETIC EVALUATION WITH ^{99m} Tc
17:00–17:15	OL	Egorova B.V. ³	BENZO- AND PYRIDINE- AZACROWN ETHERS AS PERSPECTIVE TOOL FOR TARGETED RADIOPHARMACEUTICALS
17:15–17:30	OL	Almayahi B.A. ³	NANOCOMPOSITE-BASED STRATEGIES FOR ENHANCING RADIATION THERAPY IN HUMAN COLORECTAL CANCER CELLS

2 - Radiochemical technologies and fundamental radiochemistry

3 - Radiopharmaceutical chemistry

October 10

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

17:30–17:45	OL	Ermolaev S.V. ³	RECOVERY OF ^{225}Ac FROM PROTON-IRRADIATED THORIUM AND DEVELOPMENT OF $^{225}\text{Ac}/^{213}\text{Bi}$ GENERATOR
17:45–18:00	OL	Skornyakov Yu.V. ³	EXPERIENCE OF AUTOMATIC CHEMICAL SYNTHESIS. DEVELOPMENT AND PRODUCTION OF COMPONENTS AND KITS FOR RADIOPHARMACEUTICAL DIAGNOSTICS AND THERAPY
18:00–18:15	OL	Korraa S. ³	ABSCOPAL AND BYSTANDER EFFECTS OF RADIOPHARMACEUTICALS
18:15–18:30	OL	Kokov K.V. ³	INNOVATIVE ^{177}Lu -BASED RADIOPHARMACEUTICALS FOR NUCLEAR MEDICINE
18:30–20:00			Poster session

Chairs – Full Member of RAS A.Yu. Tsivadze, Corresponding Member of RAS I.G. Tananaev, Corresponding Member of RAS A.K. Buryak



**RUSSIAN-CHINESE SYMPOSIUM
ON SELECTIVE TECHNOLOGIES
FOR SEPARATION OF SUBSTANCES
WITH SIMILAR PROPERTIES**

Time specified in the program,
includes report and answers to questions

October 9

RUSSIAN-CHINESE SYMPOSIUM ON SELECTIVE TECHNOLOGIES FOR SEPARATION OF SUBSTANCES WITH SIMILAR PROPERTIES

Hall Borodin

Chair: Buryak A.K.

14:00–14:25	KL	Li Baoqiang	CARBON DOTS: TARGET-ORIENTED SYNTHESIS AND TAILOR-MADE FUNCTIONS
14:25–14:50	KL	Tao He	MEMBRANE CHEMICAL EXCHANGE FOR SEPARATION OF LITHIUM AND LITHIUM ISOTOPE
14:50–15:10	IL	Stepanov S.I.	THEORY AND PRACTICE OF SELECTIVE SEPARATION OF REE BY SYNERGETIC MIXTURES OF EXTRAGENTS
15:10–15:30	IL	Solovev V.P.	DESIGN OF SELECTIVE LIGANDS
15:30–15:50	IL	Safiulina A.M.	PHOSPHORYL KETONES: COMPLEXING AND EXTRACTION PROPERTIES, PRACTICAL APPLICATION
15:50–16:15			Coffee-break

Hall Borodin

Chair: Tananaev I.G., Volkov A.V.

16:15–16:30	OL	Zakurdaeva O.A.	PROSPECTS FOR THE SELECTIVE EXTRACTION OF LITHIUM FROM NATURAL HYDROMINERAL SOURCES BY MACROCYCLIC EXTRACTANTS
16:30–16:45	OL	Boyarintsev A.V.	SELECTIVE SYSTEMS FOR EXTRACTION AND SEPARATION OF ACTINIDES FROM CARBONATE MEDIA
16:45–17:00	OL	Garkushina I.S.	MOLECULAR IMPRINTED POLYMER SORBENTS FOR PREPARATIVE EXTRACTION OF LOW-MOLECULAR-WEIGHT BIOLOGICALLY ACTIVE SUBSTANCES
17:00–17:15	OL	Tsebrikova G.S.	ESTIMATION OF THE SELECTIVITY OF ORGANOPHOSPHORUS COMPOUNDS TOWARDS S-, D- AND F-ELEMENTS
17:15–17:30	OL	Pidenko P.S.	BIOINORGANIC SORBENTS BASED ON IMPRINTED PROTEINS
17:30–17:45	OL	Bezdomnikov A.A.	SELECTIVE LITHIUM EXTRACTION BY NEW BINARY EXTRACTANTS BASED ON ORTHO-SUBSTITUTED PHENOLS

October 9

RUSSIAN-CHINESE SYMPOSIUM ON SELECTIVE TECHNOLOGIES FOR SEPARATION OF SUBSTANCES WITH SIMILAR PROPERTIES

17:45–18:00	OL	Afonin M.A.	EXTRACTION OF HEAVY RARE EARTH ELEMENTS AND YTTRIUM FROM CHLORIDE SOLUTIONS USING MIXTURES OF P507 AND CYANEX 272
18:00–18:15	OL	Sharov V.E.	INFLUENCE OF THE PARAMETERS OF THE EXTRACTION SYSTEM ON THE SELECTIVITY OF EXTRACTION $L_n(III)$, $A_m(III)$ AND $C_m(III)$ BY N,N,N',N'-TETRABUTYLDIGLYCOLAMIDE
18:15–18:30	OL	Slobodskaya S.S.	COMPLEXATION AND EXTRACTION PROPERTIES OF 1,3-BIS(DIPHENYLPHOSPHORYL)-2-OXAPROPANE TOWARDS RARE EARTH ELEMENTS
18:30–20:00			Poster session



DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S TECHNOLOGICAL SOVEREIGNTY

Time specified in the program,
includes report and answers to questions

October 8

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S TECHNOLOGICAL SOVEREIGNTY

Hall Voskresensky

Chair: Aldoshin S.M.

14:00–14:30	KL	Bortnikov N.S.	DEVELOPMENT OF MODELS OF MINERAL FORMING SYSTEMS: THE WAY TO DEVELOP MINERAL RESOURCE BASE
14:30–14:50	IL	Zakharov V.N.	MINING TECHNICAL SYSTEMS OF THE FULL CYCLE DEVELOPMENT DEPOSITS SOLID MINERALS
14:50–15:10	IL	Aleksandrova T.N.	INNOVATIVE PROCESSES OF STRATEGIC MINERAL RAW MATERIALS COMPLEX ORES BENEFICIATION AND DEEP PROCESSING
15:10–15:30	IL	Khanchuk A.I.	DEVELOPMENT OF METHODS FOR STRATEGIC METALS EXTRACTION FROM ORES AND PLACERS OF MAFIC-ULTRAMAFIC INTRUSIONS (PRIMORYE TERRITORY, RUSSIA)
15:30–15:50	IL	Petrov V.A.	MINERAL-RESOURCE BASE OF URANIUM
15:50–16:15			Coffee-break

Hall Voskresensky

Chair: Bortnikov N.S.

16:15–16:30	OL	Pekov I.V.	MINERALOGICAL CRYSTAL CHEMISTRY OF RARE EARTH ELEMENTS: CONNECTION WITH THE PROBLEM OF ASSESSMENT OF THEIR DEPOSITS
16:30–16:45	OL	Tkachev A.V.	LITHIUM DEPOSIT TYPES, THEIR DISTRIBUTION IN GEOLOGICAL TIME AND SPACE, ROLE IN THE MODERN RAW MATERIAL BASE
16:45–17:00	OL	Vikentev I.V.	STRATEGIC METALS IN THE ORES OF THE URAL DEPOSITS
17:00–17:15	OL	Likhnikovich E.G.	VIMS EXPERIENCE IN THE DEVELOPMENT OF INNOVATIVE TECHNOLOGIES FOR PROCESSING COMPLEX ORES OF STRATEGIC METALS

October 8

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S NTECHNOLOGICAL SOVEREIGNTY

17:15–17:30	OL	Cherkasov S.V.	NEW PARADIGM FOR ORE DEPOSIT FORECAST
17:30–17:45	OL	Rozhdestvina V.I.	ONTOGENESIS OF NATIVE GOLD IN BROWN COALS
17:45–18:30	OL		Discussion

October 9

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S TECHNOLOGICAL SOVEREIGNTY

Hall Voskresensky

Chair: Tananaev I.G.

14:00–14:30	KL	Tananaev I.G.	TECHNOLOGIES FOR DEVELOPMENT OF MINERAL RAW MATERIALS OF THE KOLA PENINSULA: HISTORY AND PROSPECTS FOR ADAPTATION AND IMPLEMENTATION
14:30–14:50	IL	Khamizov R.Kh.	RESOURCE-SAVING METHOD FOR EXTRACTION OF LITHIUM FROM ORE MATERIALS AND LIQUID ENVIRONMENTS
14:50–15:10	IL	Nemudryi A.P.	TECHNOLOGIES FOR RECOVERING OF LITHIUM FROM DOMESTIC MINERAL AND HYDROMINERAL LITHIUM RAW MATERIALS
15:10–15:30	IL	Kuzmin D.V.	HYDROTHERMAL ACID LEACHING OF RARE METAL ORES OF THE CHUKTUKON DEPOSIT
15:30–15:50	IL	Nikolaev A.I.	PROBLEMS AND PROSPECTS OF COMPLEX RARE METAL RAW MATERIALS OF MURMANSK REGION FOR THE PRODUCTION OF FUNCTIONAL MATERIALS
15:50–16:15			Coffee-break

Hall Voskresensky

Chair: Bortnikov N.S.

16:15–16:30	OL	Voshkin A.A.	SUSTAINABLE LIQUID EXTRACTION PROCESSES FOR RECYCLING OF MINERAL RAW MATERIALS AND WASTES
16:30–16:45	OL	Mitrofanova G.V.	NOVEL REAGENTS OF NATIONAL ORIGIN FOR APATITE-CONTAINING ORES FLOTATIONAL ENRICHMENT
16:45–17:00	OL	Kasikov A.G.	PRODUCTION OF NICKEL, COBALT AND LITHIUM SALTS FROM RAW MATERIALS OF THE ARCTIC REGION FOR THE SYNTHESIS OF BATTERY MATERIALS
17:00–17:15	OL	Stepanov E.A.	UNIFICATION OF DOMESTIC CHEMICAL REAGENTS FOR EXTRACTION OF MINERAL RESOURCES
17:15–17:30	OL	Lomovskii I.O.	MECHANOCHEMICAL CONCENTRATING AND INCREASING THE SOLUBILITY OF RARE EARTH ELEMENTS FROM COALS AND ASH AND SLAG WASTES

October 9

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S TECHNOLOGICAL SOVEREIGNTY

17:30–17:45	OL	Yukhin Yu.M.	BISMUTH: RAW MATERIAL BASE AND CONCENTRATE PROCESSING TO OBTAIN HIGH PURITY BISMUTH AND ITS COMPOUNDS
17:45–18:00	OL	Rasskazov I.Yu.	PROSPECTS FOR THE USE OF BLASTING INJECTION OXIDATION AND ORE LEACHING IN THE DEVELOPMENT OF DEPOSITS OF STRATEGICALLY IMPORTANT MINERAL RAW MATERIALS
18:00–18:15	OL	Palyanova G.A.	CHEMISTRY OF NATIVE GOLD AND THERMODYNAMIC STUDIES OF GOLD-BEARING SYSTEMS
18:15–18:30	OL	Goryachev A.A.	DEVELOPMENT OF TECHNOLOGY FOR PROCESSING COPPER-NICKEL ORES ENRICHMENT STELLAR TAILINGS, ADAPTED TO THE CLIMATIC CONDITIONS OF THE RUSSIAN FEDERATION ARCTIC ZONE

October 10

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S NTECHNOLOGICAL SOVEREIGNTY

Hall Voskresensky

Chair: Pimenov N.V.

14:00–14:30	KL	Pimenov N.V.	PROSPECTS FOR THE APPLICATION OF BIOHYDROMETALLURGY FOR THE EXTRACTION OF STRATEGIC METALS
14:30–14:50	IL	Bulaev A.G.	MICROBIAL ECOLOGY OF SULFIDE CONCENTRATE BIOOXIDATION REACTORS AND THE POSSIBILITY OF OPTIMIZING BIOHYDROMETALLURGICAL TECHNOLOGIES
14:50–15:10	IL	Safonov A.V.	МИКРОБНЫЕ БИОГЕОТЕХНОЛОГИИ ОЧИСТКИ ПОДЗЕМНЫХ ВОД, ЗАГРЯЗНЕННЫХ РАДИОНУКЛИДАМИ
15:10–15:30	IL	Adrianov A.V.	UNIQUE MARINE ECOSYSTEMS IN THE ORE-BEARING SEABED AREAS
15:30–15:50	IL	Fomchenko N.V.	HYDROMETALLURGICAL PROCESSING OF LOW-GRADE CONCENTRATES OF NONFERROUS METALS
15:50–16:15			Coffee-break

Hall Voskresensky

Chair: Fomchenko N.V.

16:15–16:30	OL	Belyi A.V.	MICROBIOLOGICAL TREATMENT OF CYANIDE AND RHODANIDE-CONTAINING EFFLUENTS OF MINING INDUSTRY
16:30–16:45	OL	Latyuk E.S.	PROSPECTS FOR APPLYING THE BIOLEACHING METHOD FOR PROCESSING SULPHIDE RAW MATERIALS IN ARCTIC
16:45–17:00	OL	Boduen A.Ya.	SPECIFIC ASPECTS OF GOLD EXTRACTION FROM PYRRHOTITE-CONTAINING MATERIALS
17:00–17:15	OL	Abashina T.N.	APPROACHES TO STIMULATE BIOLEACHING OF METALS

October 10

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S NTECHNOLOGICAL SOVEREIGNTY

17:15–17:30	OL	Gavrilov V.L.	FEATURES OF MINERAL RESOURCE ASSESSMENT FOR HIGH TECHNOLOGY IN NORTH-EAST RUSSIA
17:30–18:30	OL		Discussion
18:30–20:00			Poster session

Chairs – Full Member of RAS V.N. Charushin
and Full Member of RAS S.O. Bachurin



SYMPOSIUM ON MEDICINAL CHEMISTRY

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM ON MEDICINAL CHEMISTRY

Hall Zaitsev

*Reports in the field of Classical Medicinal Chemistry
and in the Organic Chemistry to solve specific problems
of Medicinal Chemistry*

Chair: Bachurin S.O., Poroikov V.V.

14:00–14:30	KL	Fedorov A.Yu.	СЕЛЕКТИВНЫЕ ИНГИБИТОРЫ ВЕТ-ПРОТЕИНОВ В ЭПИГЕНЕТИЧЕСКОЙ ТЕРАПИИ РАКА
14:30–14:50	IL	Salakhutdinov N.F.	INHIBITORS OF VIRUSES CAUSING PARTICULARLY DANGEROUS INFECTIONS
14:50–15:10	IL	Milaeva E.R.	METAL-BASED DRUG CANDIDATES WITH MULTIMODAL MODE OF ACTION
15:10–15:30	IL	Navrotskii M.B.	(HETARYLMETHYL)BENZOIC ACIDS: FROM EXPERIMENTAL INHIBITORS OF BACTERIAL CYSTATHIONINE-□-LYASE TO A NEW CLASS OF ANTI-BIOTIC ADJUVANTS
15:30–15:50	IL	Balakin K.V.	INNOVATIVE SMALL MOLECULE DRUGS INTRODUCED ON THE RUSSIAN MARKET
15:50–16:15			Coffee-break

Hall Zaitsev

Chair: Salakhutdinov N.F., Fedorov A.Yu.

16:15–16:30	OL	Vereshchagin A.N.	HOW TO PREPARE A NEW POWERFUL ANTISEPTIC
16:30–16:45	OL	Rubtsova S.A.	SYNTHESIS AND ANTIMICROBIAL PROPERTIES OF S-, O-, N-, F-CONTAINING MONOTERPENOIDS
16:45–17:00	OL	Pavlovskii V.I.	DEVELOPMENT AND IMPLEMENTATION OF INNOVATIVE ANALGESICS BASED ON 1,4-BENZODIAZEPIN-2-ONES
17:00–17:15	OL	Averina E.B.	ANTITUBULIN AGENTS OF DIFFERENT STRUCTURAL TYPES: SYNTHESIS AND STUDY OF ANTITUMOUR ACTIVITY
17:15–17:30	OL	Burmistrov V.V.	APPROACHES TO INCREASING THE WATER SOLUBILITY OF SOLUBLE EPOXIDE HYDROLASE INHIBITORS
17:30–17:45	OL	Ostrovskii V.A.	NOVEL BIOLOGICALLY ACTIVE NITROGEN-, SULFUR-, AND OXYGEN-CONTAINING HETEROCYCLIC COMPOUNDS WITH MULTITARGET ACTIVITY

October 8

SYMPOSIUM ON MEDICINAL CHEMISTRY

17:45–18:00	OL	Popkov S.V.	SYNTHESIS, ANTIFUNGAL AND ANTIMYCOBACTERIAL ACTIVITY OF AZOLYL METHYL-CYCLOHEXANOLS AND 3-AZABICYCLO[3.3.1]NONANE-9-OLS
18:00–18:10	OL	Gibadullina E.M.	DIARYLMETHYLPHOSPHONATES CONTAINING STERICALLY HINDERED PHENOL: SYNTHESIS, SWITCH FROM ANTIOXIDANT ACTIVITY TO ROS GENERATION AND INDUCTION OF APOPTOSIS
18:10–18:20	OL	Machulkin A.E.	DEVELOPMENT AND STUDY OF THERAPEUTIC AND DIAGNOSTIC CONJUGATES BASED ON PSMA LIGANDS
18:20–18:30	OL	Shchegolkov E.V.	DESIGN OF BIOACTIVE COMPOUNDS BASED ON 5-POLYFLUOROALKYL-SUBSTITUTED ANTIPYRINES
18:30–20:00			Poster session

October 9

SYMPOSIUM ON MEDICINAL CHEMISTRY

Hall Zaitsev

Reports on the application of methods and approaches of mathematical, physical and inorganic chemistry to solve specific problems in medicinal and biologically active substances design

Chair: Milaeva E.R., Navrotskii M.B.

14:00–14:25	KL	Poroikov V.V.	WAY2DRUG PLATFORM: FROM BIOLOGICAL ACTIVITY PREDICTION TO SYSTEMS PHARMACOLOGY
14:25– 14:50		Sagdullaev Sh.Sh.	CHEMISTRY, PHARMACOLOGY, AND TECHNOLOGY OF LAPPACONITINE AND ITS DERIVATIVES
14:50–15:05	IL	Palyulin V.A.	DESIGN OF NEUROPROTECTIVE COMPOUNDS: AMPA RECEPTOR MODULATORS
15:05–15:20	IL	Vasilev P.M.	ARTIFICIAL NEURAL NETWORKS OF DIFFERENT ARCHITECTURE IN THE SEARCH OF PHARMACOLOGICALLY ACTIVE COMPOUNDS
15:20–15:35	IL	Batishchev O.V.	PHYSICOCHEMICAL METHODS FOR SEARCHING AND ESTABLISHING MECHANISMS OF ACTION OF ANTIVIRAL DRUGS
15:35–15:50	IL	Sanina N.A.	DESIGN OF INNOVATIVE TARGET ORIENTED AGENTS – GENERATORS OF ENDOGENOUS TRANSMITTER MOLECULES FOR THE TREATMENT OF SOCIALLY SIGNIFICANT DISEASES
15:50–16:15			Coffee-break

Hall Zaitsev

Chair: Balakin K.V., Palyulin V.A.

16:15–16:30	OL	Lutsenko I.A.	CREATION OF FUNCTIONAL BLOCKS OF COORDINATION COMPOUNDS WITH VARIOUS TYPES OF BIOLOGICAL ACTIVITY: SYNTHETIC APPROACHES, MEDICAL-BIOLOGICAL TESTS, PROSPECTS FOR IMPLEMENTATION
16:30–16:45	OL	Nazarov A.A.	ANTITUMOR PLATINUM AND RUTHENIUM COMPOUNDS WITH TARGETING ACTION
16:45–17:00	OL	Kandalintseva N.V.	SULFUR-, SELENIUM-CONTAINING HYDROPHILIC ANTIOXIDANTS: SYNTHESIS AND INFLUENCE ON OXIDATIVE PROCESSES IN LIVING SYSTEMS

October 9

SYMPOSIUM ON MEDICINAL CHEMISTRY

17:00–17:15	OL	Svitanko I.V.	ADD-ONS TO MOLECULAR MODELING METHODS: IMPROVEMENT IN ACTIVITY PREDICTION
17:15–17:30	OL	Shulga D.A.	ROLES OF COMPUTER MODELING IN CHEMISTRY TO SUPPORT INNOVATION DEVELOPMENT
17:30–17:45	OL	Osolodkin D.I.	KNOWLEDGE-DRIVEN SEARCH FOR SMALL MOLECULE ANTIVIRALS
17:45–18:00	OL	Radchenko E.V.	PREDICTION OF ADMET PROPERTIES OF DRUGS USING ARTIFICIAL NEURAL NETWORKS: RELIABLE MODELS AND NOVEL APPROACHES
18:00–18:10	OL	Novikova D.S.	DEVELOPMENT OF HETEROBIFUNCTIONAL PROTAC-TYPE MOLECULES TO OVERCOME DRUG RESISTANCE OF CANCER CELLS
18:10–18:30	OL	Reports of the winners of the International Young Scientists Workshop on Medicinal Chemistry	
18:30–20:00		Poster session	

Chairs – Full Member of RAS Yu.A. Zolotov,
Corresponding Member of RAS V.K. Ivanov

SYMPOSIUM ON THE HISTORY OF CHEMISTRY

Time specified in the program,
includes report and answers to questions

20

October 8

SYMPOSIUM ON THE HISTORY OF CHEMISTRY

Hall Borodin

Chair: Zolotov Yu.A.

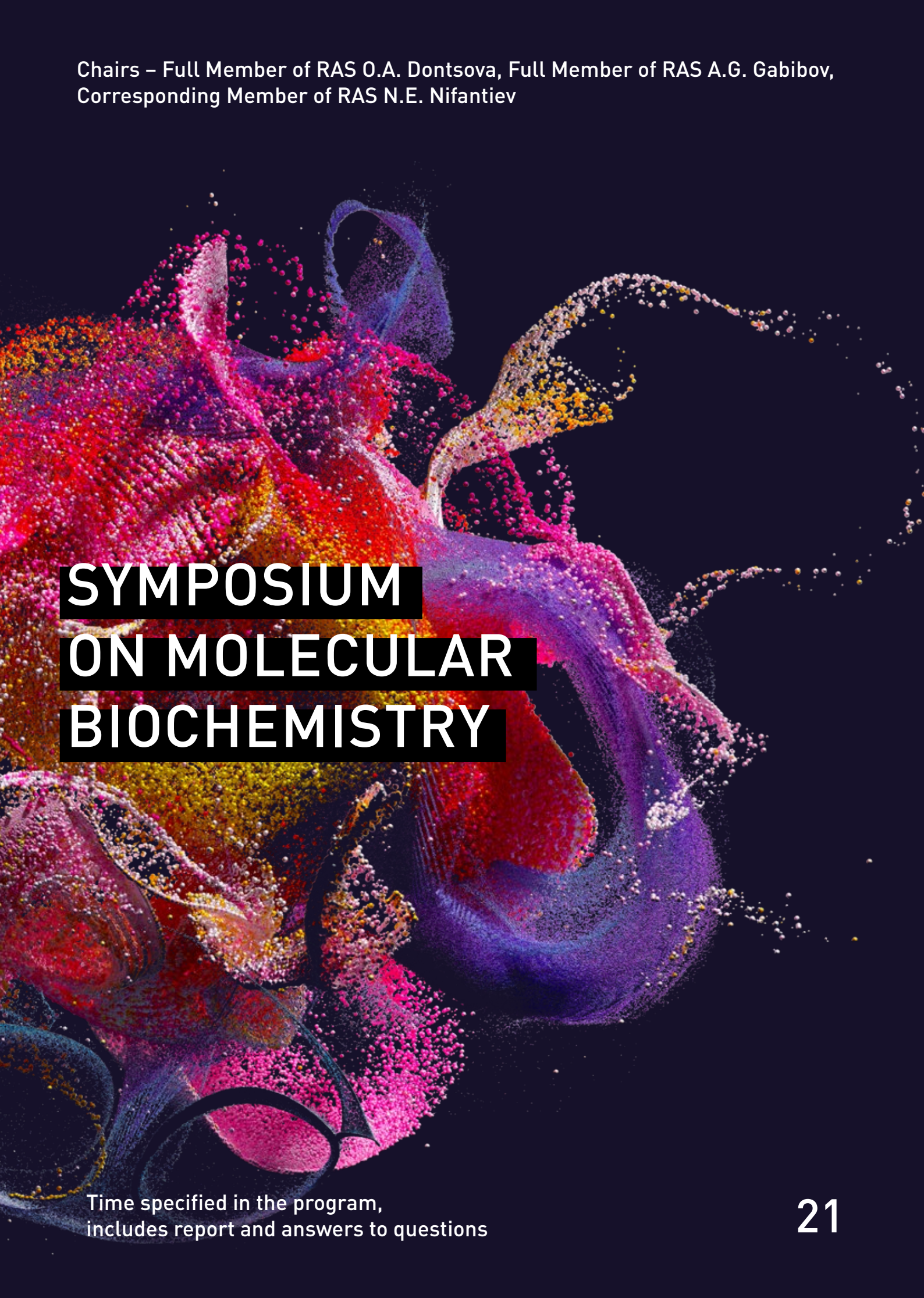
14:00–14:30	KL	Ivanov V.K.	THE LEDENTSOV SOCIETY: THE FIRST RUSSIAN SCIENCE SUPPORT FOUNDATION
14:30–14:50	IL	Kurashov V.I.	CHEMISTRY AND CHEMICAL TECHNOLOGICAL IN HISTORY OF THE KAZAN NATIONAL RESEARCH TECHNOLOGY UNIVERSITY
14:50–15:10	IL	Flid V.R.	METAL COMPLEX CATALYSIS – THE GREATEST ACHIEVEMENT IN XXth CENTURY CHEMISTRY
15:10–15:30	IL	Kotov V.Yu.	AT THE ORIGINS OF SOVIET POLAROGRAPHY
15:30–15:50	IL	Shuklov I.A.	CHEMICAL DISCOVERIES AND CHEMISTS ON COINS
15:50–16:15			Coffee-break

Hall Borodin

Chair: Ivanov V.K.

16:15–16:30	OL	Paevskii A.S.	VIRTUAL MUSEUM OF CHEMISTRY. FIRST RESULTS AND PERSPECTIVES
16:30–16:45	OL	Shavshukova S.Yu.	PROFESSOR D.L. RAKHMANKULOV SCIENTIFIC SCHOOLS
16:45–17:00	OL	Mikhailova N.N.	PETROCHEMICAL SCIENTIFIC SCHOOLS USPTU
17:00–17:15	OL	Asnin L.D.	EVOLUTION OF THE NOMENCLATURE OF OPTICAL ACTIVE SUBSTANCES: AMINO ACIDS AS A CASE STUDY
17:15–17:30	OL	Krivorotov D.V.	THE DEVELOPMENT OF OPIOID CHEMISTRY AND THEIR ANTAGONISTS
17:30–17:45	OL	Grashkina A.V.	PAGES OF HISTORY OF TEACHING PHYSICAL CHEMISTRY: ONE OF THE OLDEST DEPARTMENTS IN RUSSIA
18:30–20:00			Poster session

Chairs – Full Member of RAS O.A. Dontsova, Full Member of RAS A.G. Gabibov,
Corresponding Member of RAS N.E. Nifantiev

An abstract, colorful visualization of a molecular structure, possibly a protein or DNA, rendered in a point cloud or particle-based style. The structure is composed of numerous small, colored spheres (pink, red, orange, yellow, purple, blue) arranged in a complex, folded pattern against a dark background. The overall appearance is that of a dynamic, multi-colored molecular model.

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

Hall Bakh

Chair: Dontsova O.A.

14:00–14:30	KL	Kochetkov S.N.	ANTIBIOTIC RESISTANCE: THREATS AND SEARCH FOR A WAY OUT
14:30–14:50	IL	Lavrik O.I.	PARP1 AND PARP2 IN POLY(ADP-RIBOSYL) ILATION OF HISTONES OR WHY HIGHER EUKARYOTES NEED TWO NUCLEAR POLY(ADP-RIBOSE)POLYMERASES
14:50–15:10	IL	Khrenova M.G.	ROLE OF SMALL OPEN READING FRAMES IN CELL FUNCTIONING
15:10–15:30	IL	Rubtsova M.P.	ROLE OF SMALL OPEN READING FRAMES IN CELL FUNCTIONING
15:30–15:50	IL	Sergiev P.V.	MICE GENOME EDITING AS A TOOL FOR FUNCTIONAL GENOMICS AND PERSONALIZED MEDICINE
15:50–16:15			Coffee-break

Hall Bakh

Chair: Dontsova O.A.

16:15–16:30	OL	Khomutov A.R.	PHOSPHORUS-CONTAINING ANALOGUES OF GLUTAMIC ACID: SYNTHESIS, INTERACTION WITH THE ENZYMES AND BIOLOGICAL ACTIVITY
16:30–16:45	OL	Kaznacheeva E.V.	ДЕПО-УПРАВЛЯЕМЫЙ ВХОД КАЛЬЦИЯ КАК МИШЕНЬ В ТЕРАПИИ НЕЙРОДЕГЕНЕРАТИВНЫХ ЗАБОЛЕВАНИЙ. ПОИСК ХИМИЧЕСКИХ ЭФФЕКТОРОВ -ПОТЕНЦИАЛЬНЫХ ФАРМПРЕПАРАТОВ
16:45–17:00	OL	Yampolskii I.V.	ЛЮМИНЕСЦЕНЦИЯ ЖИВЫХ ОРГАНИЗМОВ: ОТ ФУНДАМЕНТАЛЬНЫХ МЕХАНИЗМОВ ДО СИНТЕТИЧЕСКОЙ БИОЛОГИИ
17:00–17:15	OL	Savitskii A.P.	<i>MOLECULAR IMAGING IN IN VIVO ENZYMOLOGY</i>
17:15–17:30	OL	Gabashvili A.N.	GENETICALLY ENGINEERED PROTEIN NANOCONTAINERS FOR BIOMEDICAL APPLICATIONS
17:30–17:45	OL	Skvortsov D.A.	SCREENING FOR COMPOUNDS SELECTIVELY INHIBITING THE GROWTH OF TUMOR CELLS: ANTI-TUBULIN DIARYLSOXAZOLE DERIVATIVES

October 8

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

17:45–18:00	OL	Snytnikova O.A.	METABOLOMIC CHANGES IN THE BLOOD AND BRAIN OF OXYS RATS – A MODEL OF ALZHEIMER'S DISEASE
18:00–18:15	OL		
18:15–18:30	OL		

October 9

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

Hall Bakh

Chair: Nifantev N.E.

14:00–14:30	KL	Krylov V.B.	SYNTHETIC OLIGOSACCHARIDES RELATED TO O-ANTIGENS OF KLEBSIELLA PNEUMONIAE AS A PLATFORM FOR VACCINE DEVELOPMENT
14:30–14:50	IL	Vodovozova E.L.	БЕЛКОВАЯ КОРОНА ЛИПОСОМ И ЕЕ ВЛИЯНИЕ НА ВЗАИМОДЕЙСТВИЯ С КЛЕТКАМИ КРОВЕНОСНОГО РУСЛА
14:50–15:10	IL	Kusaikin M.I.	NOVEL ENZYMES CATALYSING THE CONVERSION OF FUCOIDANS
15:10–15:30	IL	Popov V.O.	WHAT FOR DO YOU NEED THREE COPPER IONS IN THE REACTION OF NUCLEOPHILIC SUBSTITUTION
15:30–15:50	IL	Maslov M.A.	NON-VIRAL DELIVERY SYSTEMS: HOW THE STRUCTURE OF LIPID COMPONENTS AFFECTS THE EFFICIENCY OF NUCLEIC ACIDS TRANSPORT
15:50–16:15			Coffee-break

Hall Bakh

Chair: Nifantev N.E.

16:15–16:30	OL	Makshakova O.N.	MODERN APPROACHES TO STUDYING INTERACTIONS OF VARIABLE CARBOHYDRATE CHAINS OF GLYCOSAMINOGLYCANS WITH PROTEIN RECEPTORS
16:30–16:45	OL	Tokatly A.I.	SYNTHESIS OF HEPARINOID FRAGMENTS FOR BIOLOGICAL AND CONFORMATIONAL STUDIES
16:45–17:00	OL	Serchenya T.S.	<i>RECOMBINASE POLYMERASE AMPLIFICATION IN COMBINATION WITH MEMBRANE IMMUNOCHROMATOGRAPHY FOR RAPID DETECTION OF PATHOGENIC BACTERIA SALMONELLA ENTERICA AND LISTERIA MONOCYTOGENES</i>
17:00–17:15	OL	Shmendel E.V.	NEW CATIONIC LIPOSOMES BASED ON CARBOHYDRATE-CONTAINING AMPHIPHILES FOR DELIVERY OF NUCLEIC ACIDS INTO EUKARYOTIC CELLS
17:15–17:30	OL	Shepelev N.M.	NUMEROUS SMALL OPEN READING FRAMES AFFECT PROLIFERATION OF HUMAN CELLS

October 9

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

17:30–17:45	OL	ООО «Gennye Tekhnologii Zdorov'ya»	ХРОМАТО-МАСС-СПЕКТРОМЕТРИЯ ЭФФЕКТИВНЫЙ, СЕЛЕКТИВНЫЙ И ДОСТОВЕРНЫЙ МЕТОД ИССЛЕДОВАНИЙ МЕТАБОЛОМИКИ
17:45–18:00	OL		
18:00–18:15	OL		
18:15–18:30	OL		

October 10

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

Hall Bakh

Chair: Gabibov A.G.

14:00–14:30	KL	Deev S.M.	RADIONUCLIDES AND OTHER INNOVATIVE AGENTS FOR EFFECTIVE ONCOTHERANOSTICS
14:30–14:50	IL	Belogurov A.A.	PROCESSING AND PRESENTATION OF ANTIGENS: FROM FUNDAMENTAL ASPECTS TO SPECIFIC THERAPY
14:50–15:10	IL	Zenkova M.A.	MICRORNA-TARGETED DRUGS: MIRNAS VS ANTISENSE OLIGONUCLEOTIDES
15:10–15:30	IL	Mitkevich V.A.	INHIBITORS OF HYDROGEN SULFIDE SYNTHESIS ENZYMES AS ANTIBIOTIC POTENTITORS
15:30–15:50	IL	Smirnov I.V.	MICR OFLUIDIC TECHNOLOGIES FOR SOLVING PROBLEMS OF APPLIED MOLECULAR BIOLOGY
15:50–16:15			Coffee-break

Hall Bakh

Председатель: Габиров А.Г.

16:15–16:30	OL	Kochetkov S.N.	NEW ANTIMICROBIAL AGENTS BASED ON MODIFIED NUCLEOSIDES
16:30–16:45	OL	Morozova O.V.	PROTEIN AND COMPOSITE NANOPARTICLES FOR INTRACELLULAR DRUG DELIVERY
16:45–17:00	OL	Pometun A.A.	NEW ENZYMES FROM LACTOBACTERIA. PROSPECTS OF USE.
17:00–17:15	OL	Gottikh M.B.	COMPLEXES OF HIV-1 PROTEINS WITH CELLULAR PROTEINS AS NEW TARGETS FOR ANTIRETROVIRAL THERAPY
17:15–17:30	OL	Lukyanov D.A.	DISCOVERING COMPOUNDS THAT POSSESS ANTIBACTERIAL ACTIVITY. ESTABLISHING THE MECHANISM OF ACTION FOR ANTIBACTERIALS THAT HAVE BEEN IDENTIFIED.
17:30–17:45	OL	Chernolovskaya E.L.	THERAPEUTIC STRATEGIES WITH CHEMICALLY MODIFIED SMALL INTERFERING RNAS
17:45–18:00	OL	Kubareva E.A.	SEARCH FOR APPROACHES TO IMPROVE SURFACTIN PRODUCTION EFFICIENCY IN BACILLUS SUBTILIS CELLS
18:00–18:15	OL	Azhikina T.L.	MYCOBACTERIUM TUBERCULOSIS NON-CODING RNAs AS REGULATORS OF HOST-PATHOGEN INTERACTION

October 10

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

18:15–18:30	OL	Markov A.V.	DEVELOPMENT OF INHIBITORS TARGETING GLIAL-MESENCHYMAL TRANSITION OF GLIOBLASTOMA MULTIFORME CELLS BASED ON SEMISYNTHETIC TERPENES: FIRST STAGE PROGRESS
18:30–20:00	Poster session		



SYMPOSIUM
“GLASS AND CERAMICS”

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM "GLASS AND CERAMICS"

Hall Grebenschikov

Chair: Shevchenko V.Ya.

14:00–14:30	KL	Lepin V.N.	NEW MATERIALS AND NEW MODELS OF SPECIAL EQUIPMENT
14:30–14:50	OL	Perevislov S.N.	SYNTHESIS OF A NEW MATERIAL BY THE REACTION-DIFFUSION TURING PROCESS AND STUDY OF THE PROPERTIES OF THE DIAMOND-SILICON CARBIDE COMPOSITE
14:50–15:05	OL	Sychev M.M.	ADDITIVE TECHNOLOGIES FOR THE FABRICATION OF CERAMIC PRODUCTS
15:05–15:20	OL	Chuvildeev V.N.	GRAIN BOUNDARY DIFFUSION IN OXIDES. THEORY AND APPLICATIONS
15:20–15:35	OL	Levashov E.A.	SELF-PROPAGATING HIGH-TEMPERATURE SYNTHESIS OF STRUCTURAL CERAMICS: FROM SOLID SOLUTIONS TO HETEROPHASE COMPOSITIONS
15:50–16:15			Coffee-break

Hall Grebenschikov

16:15–16:35	IL	Noskov A.S.	POROUS OXIDE MATERIALS IN CATALYSIS
16:35–16:50	OL	Vinnik D.A.	FUNCTIONAL OXIDE MATERIALS FOR ELECTRONICS, INCLUDING PRINTED ONE
16:50–17:05	OL	Nikonorov N.V.	OPTICAL GLASSES AND GLASS-CRYSTALLINE MATERIALS FOR PHOTONIC APPLICATIONS: CURRENT STATE AND PROSPECTS FOR DEVELOPMENT
17:05–17:20	OL	Papynov E.K.	ADVANCED CAPABILITIES OF ELECTROPHYSICAL SINTERING FOR FUNCTIONAL CERAMICS AND DEVICES
17:20–17:35	OL	Sycheva A.M.	USE OF NANOPARTICLES SURFACE ENERGY TO OBTAIN HIGH-STRENGTH CONCRETE
18:30–20:00			Poster session

October 9

SYMPOSIUM "GLASS AND CERAMICS"

Hall Grebenschikov

Chair: Perevislov S.N.

14:00–14:30	IL	Sergienko V.I.	CURRENT STATE AND PROSPECTS FOR THE DEVELOPMENT OF RESEARCH IN THE FIELD OF CERAMIC AND GLASS -LIKE MATERIALS IN THE FAR EAST
14:30–14:50	IL	Popovich A.A.	ADDITIVE TECHNOLOGIES FOR FUNCTIONAL GRADIENT MATERIALS PRODUCTION
14:50–15:05	OL	Pankova T.N.	ПРОИЗВОДСТВО И БЫТОВАНИЕ ИЗДЕЛИЙ ИЗ СТЕКЛА В РОССИИ В XI – ПЕРВОЙ ПОЛОВИНЕ XVIII ВВ. КРАТКИЙ ОБЗОР
15:05–15:20	OL	Tveryanovich Yu.S.	MECHANICAL PROPERTIES OF CHALCOGENIDE GLASSES AND THE INFLUENCE OF METALLOPHILIC INTERACTIONS ON THEM
15:20–15:35	OL	Andreev O.V.	CERAMIC MATERIALS BASED ON CHALCOGENIDES OF RARE EARTH ELEMENTS
15:50–16:15			Coffee-break

Hall Grebenschikov

16:15–16:35	OL	Arbuzov V.I.	EFFECT OF ELEMENTAL COMPOSITION OF OPTICAL AND RADIATION-RESISTANT GLASSES ON THEIR QUANTITATIVE CHARACTERISTICS OF ATTENUATION OF X-RAY AND GAMMA RADIATION
16:35–16:50	OL	Yatsenko E.A.	STRUCTURE FORMATION OF POROUS GLASS MATERIALS AND PROSPECTS FOR THEIR APPLICATION
16:50–17:05	OL	Zelenina E.V.	DIFFUSION IN TWO-PHASE MATERIAL AS CONSIDERED WITH PERCOLATION TH
17:05–17:20	OL		
17:20–17:35	OL		

An abstract, colorful particle structure composed of numerous small, multi-colored dots (red, blue, yellow, white, and orange) arranged in a complex, interconnected pattern. The structure is set against a dark, black background, which makes the vibrant colors stand out. The overall appearance is that of a molecular model or a complex data visualization. The text 'POSTER SESSION' is overlaid on the center of the image in a white, bold, sans-serif font, with each word on a separate black rectangular background.

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- 14-002 **Betina A.A.** BIOLOGICAL POTENTIAL OF $\text{NaGd}_{0.7}\text{Eu}_{0.3}\text{F}_4$ AND $\text{KGd}_{0.8}\text{Eu}_{0.2}\text{F}_4$ NANOPARTICLES COATED BY APTMS
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