THE FOURTH INTERNATIONAL CONFERENCE

"MICROPLASTICS IN POLYMER SCIENCE"

November 8-12, 2026, Kazan, Russia

Preliminary Program

All times in the program are in Russian 24-hour format, Moscow Time

The whole program = 16 plenary and Short/Long 47 oral

Sunday 8/11 **Round Table**

Monday 9/11

9:00-9:30	**Opening Ceremony**
9:30-11:10	Morning plenaries, 4 talks
11:10-11:30	Coffee break, 20 min
11:30-13:10	Morning oral session, 5 talks of 20 min
13:10-15:00	Lunch and Poster Discussion, 1 h 30 min
15:00-16:20	Afternoon plenaries, 2 talks
16:20-16:40	Coffee break, 15 min
16:40-18:10	Afternoon oral session, 6 talks of 15 min
19:00	**Welcome Party**

Tuesday 10/11

9:30-11:00	Morning plenaries, 3 talks of 30 min
11:00-11:20	Coffee break, 20 min
11:20-13:00	Morning oral session, 5 talks of 20 min
13:00-14:30	Lunch and Poster Discussion, 1 h 30 min
14:30-15:30	Afternoon plenaries, 2 talks of 30 min
15:30-16:00	Afternoon oral session, 2 talks of 15 min
16:00-16:15	Coffee break, 15 min
16:15-18:0	Afternoon oral session 2, 7 talks of 15 min

Wednesday 11/11

9:30-11:30	Morning plenaries, 2 talks of 30 min + 3 oral talks
11:30-11:50	Coffee break, 20 min
11:50-13:10	Morning oral session, 4 talks of 20 min
13:00-14:30	Lunch and Poster Discussion, 1 h 30 min
14:30-16:00	Afternoon plenary and oral session, 1 plenary + 4 oral talks
16:00-16:15	Coffee break, 15 min
16:15-17:45	Afternoon oral session, 6 talks of 15 min

Thursday 12/11

9:00-11:15	Morning plenaries and oral session, 2 plenary + 5 oral talks
	Closing Ceremony

Color Code (according to the program)

1. Modelling in microplastic research
2. Analysis and characterization of microplastics
3. Microplastics in environmental and Earth sciences
4. Microplastics in biology, pharmacology, and medicine
5. Research and industrial strategies for microplastics prevention and reduction

November 8, Sunday

16:00-18:00	Round Table, TBA

November 9, Monday

9:00–9:30		Opening Ceremony	
9:30–11:10		Session 1	
Chairperson: ***Sergey Lyulin***			
9:30–10:00	**P-1**	**José Kenny**	**TBA**
10:00–10:30	**P-2**	**Alexei Khokhlov**	**Microplastic Particles in Natural and Drinking Water vs. Particles of Biogenic Origin, Sand, and Clay**
10:30–11:00	**P-3**	**Sabu Thomas**	**Micro and Nano Plastics: New Challenges**
11:00-11:10	**P-4**	**Hiroshi Uyama**	**From Coasts to Solutions: Tacking Marine Plastics in Japan**
11:10–11:30		Coffee break	
11:30–13:10		Session 2	
Chairperson: ***Mikhail Proskurnin***			
11:30–11:50	L-1	Yulia Frank	On the issue of estimating the mass content of microplastics in environmental components
11:50–12:10	L-2	Ivan Zorin	Experience of quantitative analysis of microplastics of micron sizes in model environments
12:10–12:30	L-3	Pavel Komarov	Study of the stability of amorphous nanoparticles of aged polymers in aqueous environment containing low-molecular-weight pollutants
12:30–12:50	L-4	Natalia Shevchenko	Assessing the sorption of a polar pollutant onto natural and polymeric microparticles and evaluating the associated toxicity risks
12:50–13:10	L-5	Badma Mankaev	Synthesis and Property Tuning of Biodegradable Copolymers Based on Lactide, ε-Caprolactone, and Functionalized Cyclic Carbonates
13:10–15:00		Lunch and Poster Discussion	
15:00–16:20		Session 3	
Chairperson:			
15:00–15:30	**P-5**	**Tatiana Kuznetsova**	**TBA**
15:30–16:00	**P-6**	**Andrea Lazzeri**	**Beyond the Biodegradable Label: The Role of Processing, Morphology and Ageing in Disintegration and Microplastic Formation**

16:00-16:20	**L-6**	**Maksim Remchukov**	**Microplastics: Key Challenges for the Industry and Mitigation Strategies in Production**
16:20–16:40	Coffee break		
16:40–18:10	Session 4		
Chairperson:			
16:40–16:55	S-1	Elena Golubeva	Modelling the Pathways of Microplastics in the Arctic Ocean
16:55–17:10	S-2	Elkhana Riabova	The impact of the waste landfill on microplastic pollution in snow of Bolshoy Solovetsky Island
17:10–17:25	S-3	Valeriia Serova	Synthesis and Polymerization of Novel Seven-Membered Cyclic Carbonates for the Preparation of Functionalized Biodegradable Polymers
17:25–17:40	S-4	Victor Nikiforov	Application of upconversion luminescent composites for biovisualization in Artemia salina
17:40–17:55	S-5	Tatiana Guselnikova	Accumulation and release of some potentially toxic elements by polyethylene terephthalate, polypropylene, expanded polystyrene microplastics
17:55–18:10	S-6	Aleksey Kudreyko	Laser-Induced Breakdown Spectroscopy Combined with Machine Learning for Quantitative Monitoring of Microplastics Aging Dynamics

November 10, Tuesday

9:30–11:00		Session 5	
Chairperson:			
9:30–10:00	**P-7**	**Alexander Yaroslavov**	**Microplastics: What are they and why are they dangerous?**
10:00–10:30	**P-8**	**Geeta Somaroo**	**Microplastics in SIDS: Are Biodegradable/Degradable Polymers a Solution or Illusion?**
10:30–11:00	**P-9**	**Sabina Jhaumeer-Laulloo**	**Beyond Lined Single-Use Plastics: A Thermal and Spectroscopic Approach to Material Identification**
11:00–11:20		Coffee-break	
11:20–13:00		Session 6	
Chairperson:			
11:20–11:40	L-7	Elena Filimonova	Evaluation of Latex Particle Transport in Sandy Aquifer
11:40–12:00	L-8	Sergei Shishlyannikov	Polyhydroxyalkanoate particle as biodegradable carriers for therapeutic delivery, replacing non-degradable synthetic polymer
12:00–12:20	L-9	Mikhail Proskurnin	Chemical analysis of micro- and nanoplastics: trends, gaps, and open problems of methodology of identification, quantification and sample preparation
12:20–12:40	L-10	Egor Zadereev	The combined effect of microplastics and toxicants of various nature on zooplankton
12:40–13:00	L-11	Petr Fetin	Microplastics as pollutants sorbent and carrier
13:00–14:30		Lunch and Poster Discussion	
14:30-16:00		Session 7	
Chairperson:			
14:30–15:00	**P-10**	**Juan Carlos Rodriguez Murillo**	**Particle size distributions for data comparison and quality assessment in microplastic research**
15:00–15:30	**P-11**	**Sergey Filippov**	**Mechanisms Of Cellular Uptake And Toxicity Of Micro And Nanofibers In Intestine And Lung Cell Models**
15:30–15:45	S-7	Alexandra Nikolaeva	Artificial Aging of Pristine and Rhodamine B-Dyed Model Polystyrene Microplastics
15:45–16:00	S-8	Mikhail Glagolev	Mesoscale Simulations of Structural Evolution and Stability of Aged Polyethylene Nanoparticles

16:00–16:15	Coffee-break		
16:15–17:45	Session 8		
Chairperson:			
16:15–16:30	S-9	Aleksandra Osechkova	Investigation of microplastic content in agricultural soils by pyrolytic gas chromatography-mass spectrometry
16:30–16:45	S-10	Alexey Khrushchev	Development of a Raman mapping method for assessing microplastic accumulation in chicken tissues
16:45–17:00	S-11	Aleksandr Khaustov	Identification of environmental risks of using polypropylene water pipes: microplastics in tap water
17:00–17:15	S-12	Alexey Dobrovskiy	Molecular Dynamics Simulations of Additives Release From Polyvinyl Chloride Microplastics
17:15–17:30	S-13	Evgeny Karpulevich	Robust and Explainable Identification of Microplastic Polymer Types from FTIR Spectra
17:30–17:45	S-14	Marina Gradova	Modeling the sinking and rising behavior of microplastic particles of various types and shapes
17:45–18:00	S-15	Margarita Redina	Quantitative assessment of the presence of microplastics as a part of aerosol atmospheric pollutions on the example of the RUDN University campus

November 11, Wednesday

I.P. Chubarenko memorial session

9:30–11:30		Session 9	
Chairperson: ***Yulia Frank***			
9:30–10:00	**P-12**	**Francesco Saliu**	**Advanced Mass Spectrometry-Based Approaches for the Characterization of Microplastics and Anthropogenic Microfibers**
10:00–10:30	**P-13**	**Paolo Galli**	**The Contribution of the MaRHE Center to Microplastic Research in Coral Reef Environments: Nearly Two Decades of Environmental Studies in the Maldives**
10:30–10:50	L-12	Boris Chubarenko	Retention zones for microplastics at river-sea interface - insight for the Baltic and Caspian seas
10:50–11:10	L-13	Ekaterina Shalunova	The research experience of microplastic particle from bottom sediments in Murmansk region lakes
11:10–11:30	L-14	Kirill Yuzhanin	Interaction Of Toxic Polycation With Polymeric And Mineral Particles
11:30–11:50		Coffee-break	

I.P. Chubarenko memorial session

11:50–13:10		Session 10	
Chairperson: ***Boris Chubarenko***			
11:50–12:10	L-15	Marina Antsiferova	Input Of Microplastics Into Natural Waters From Urban Agglomeration Areas
12:10–12:30	L-16	Alexandra Ershova	The Gulf of Finland is not the most microplastics-polluted area in the Baltic Sea region as hypothesized before
12:30–12:50	L-17	Igor Isachenko	Effects of currents and surface waves on the displacement of plastic particles on the bed
12:50-13:10	L-18	Maria Pogojeva	Latitudinal distribution of plastic fragments from the Arctic to the tropics in Russian and Chinese beaches
13:10–14:30		Lunch	
14:30-16:00		Session 11	
Chairperson:			
14:30–15:00	**P-14**	**Montserrat Filella**	**Plastics as vectors for trace elements**
15:00–15:15	S-16	Dmitrii Budkin	Assessment of Protein Oxidative Modification in Human PBMCs Following In Vitro Exposure to Amino-Modified

			Polystyrene Microplastic
15:15–15:30	S-17	Alexey Lezov	Physicochemical Characterization of Cellulose Nanocrystals in Aqueous Dispersions: Relevance to the Characterization of Submicron Polymeric Particles
15:30-15:45	S-18	Anna Shitikova	Effect of Amino-Modified Polystyrene Microplastic on the Mitochondrial Function and Apoptosis of Human Peripheral Blood Mononuclear Cells
15:45–16:00	S-19	Victor Nazarychev	All-atom molecular dynamics simulations of antibiotic adsorption on microplastic nanoparticles coated with humic acids

16:00–16:15	Coffee-break

16:15-17:30		Session 12	
Chairperson:			
16:15–16:30	S-20	Liubov Abramova, Andrey Kozin	Metabolic Pathway Analysis for Assessing the Condition of Fish Exposed to Microplastics
16:30–16:45	S-21	Michail Tolstunov	Biodegradation of Polystyrene by Ulomoides Dermestoides Larvae: Analysis of Transformation Products by Pyro-GC-MS
16:45–17:00	S-22	Anastasia Vainberg	Preliminary Assessment of Microplastics in the Northern Fur Seal (*Callorhinus ursinus*) from the Sea of Okhotsk
17:00–17:15	S-23	Elizaveta Shtro	Study of antibiotic adsorption by model polystyrene particles
17:15-17:30	S-24	Tatiana Rauen	Effect of microplastic ingestion on nuclear and mitochondrial parameters of Oxyrrhis marina compared to starvation and natural feeding
17:30-17:45	S-25	Vitaly Vorobiov	Fluorescently labeled microcrystalline cellulose as a model tracer for particle migration in soil

November 12, Thursday

9:00–11:15		Session 13	
Chairperson:			
9:00–9:30	**P-15**	**Weijun Yang**	**Interfacial Capture of Polylactic Acid Microplastics on Treated Hairy Crab Shell-Derived α-Chitin**
09:30–10:00	**P-16**	**Vladimir Chigrinov**	**Visualization and characterization of microplastics using birefringent materials and azo dye containing compounds**
10:00–10:15	S-26	Anna Kharkova	Biosensors for microplastics measurement
10:15–10:30	S-27	Anatoliy Kozlov	Isolation of detergent-resistant bacterial isolates from the rhizosphere of Sosnovsky's hogweed as potential producers of biodegradable polymers
10:30–10:45	S-28	Gennady Kantakov	A holistic solution to the polymer problem of the Anthropocene
10:45-11:00	S-29	Yuriy Yurasov	Marginal filter zones of the Sea of Azov as a barrier to the spread of microplastics
11:00–11:15	S-30	Aliya Khusnuriyalova	Green Chemistry towards Innovative polymers
Closing Ceremony			

Poster presentation

November 9, Monday

P-1	Badikova	Anastasiia	Do cationic polymers and antibiotic change the behavior of cellulose-based model microparticles?
P-2	Batchaev	Narada	Антоцианы как средство снижения окислительного стресса, индуцированного микропластиком: от экспериментальных данных к разработке биологически активной добавки
P-3	Bocherikova	Irina	Effect of repeated cooling/warming cycles on the degradation of plastic particles collected on beaches of Russia and China along a latitudinal gradient from 20°N to 80°N
P-4	Cheliukanov	Maxim	BIODEGRADATION OF ε-CAPROLACTAM AND ELECTRICITY GENERATION IN A MICROBIAL FUEL CELL: A POTENTIAL APPROACH FOR POLYAMIDE-6 MICROPLASTIC WASTE TREATMENT
P-5	Ivanova	Anna	Self-consistent field study of multiblock copolymer adsorption onto model microplastic particles
P-6	Korenevsky	Andrey	Perspectives on the Use of Danio rerio Females as a Biological Model for Assessing the Impact of Microplastics on Organs and Tissues of Aquatic Vertebrates
P-7	Kostikova	Anastasiia	Investigation of the aging process of polymer coatings of controlled-release fertilizers in soil
P-8	Krivoshlyk	Polina	Latitudinal distribution of plastic mesofragments from the Arctic to the tropics: quantitative and qualitative characteristics of the database
P-9	Kudrin	Fedor	Investigation of the adsorption properties of polymer coatings of controlled-release fertilizers toward metal ions

November 10, Tuesday

P-10	Kuntsman	Igor	Dielectric and ATR-FTIR spectroscopy of UV-aged polystyrene microplastics with and without adsorbed Rhodamine B
P-11	Lobchuk	Olga	Size–mass distribution and particle abundance during marine debris fragmentation: requirements for data completeness
P-12	Minnegulova	Liailia	Polymer Substrates in the Littoral Zone of an Urbanized Freshwater Body as a Factor in the Formation of Specific Micromycete Complexes
P-13	Nazarychev	Victor	Hydration Free Energy of Antibiotic Water Pollutants from Molecular Dynamics, Machine Learning and Semi-empirical Quantum Chemistry: Selecting All-Atom Models in the Absence of Experimental Data
P-14	Proskurnin	Mikhail	Assessing microplastics in natural waters of the Moscow region amid co-occurring natural microparticles
P-15	Repnikova	Daria	Study of Microplastics in Groundwater: A Case Study of Springs in the Moscow Region
P-16	Shevchuk	Konstantin	Microplastic content in tissues and organs of fish at different trophic levels
P-17	Todysheva	Marina	There and Back: A Review of Microplastic Sources in Agricultural Soils and Remediation Approaches
P-18	Vald	David	Preparation of model microparticles with specified properties
P-19	Vorobiev	Egor	Microplastics in the digestive tract of fish from rivers in the Syr Darya Basin and assessment of ecological risk based on the polymer hazard index
P-20	Vorobiev	Danil	The effect of microplastics on the spatial movement of aquatic oligochaetes in a model of sediment pollution