



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 = 17 plenary and Short/Long 47 oral

Sunday 8/11 Round Table

Monday 9/11

9:00-9:30	Opening Ceremony
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 1, 2 talks of 15 min
16:00-16:15	Coffee break, 15 min
16:15-17:45	Afternoon oral session 2, 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 1, 2 talks of 15 min
16:00-16:15	Coffee break, 15 min
16:15-17:45	Afternoon oral session 2, 6 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 plenaries and oral session, 2 plenary + 2 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

9:30-11:00	Morning plenaries and oral session, 3 plenary + 3 oral talks
11:00-11:15	Coffee break, 30 min

11:15-12:00	Morning oral session, 3 talks of 15 min
12:00-12:30	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	
9:30–11:00		Session 1	
Chairperson:			
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
11:00–11:20		Coffee break	
11:20–13:00		Session 2	
Chairperson:			
11:20–11:40	L-1	Yulia Frank	On the issue of estimating the mass content of microplastics in environmental components
11:40–12:00	L-2	Ivan Zorin	Experience of quantitative analysis of microplastics of micron sizes in model environments
12:00–12:20	L-3	Pavel Komarov	Study of the stability of amorphous nanoparticles of aged polymers in aqueous environment containing low-molecular-weight pollutants
12:20–12:40	L-4	Natalia Shevchenko	Assessing the sorption of a polar pollutant onto natural and polymeric microparticles and evaluating the associated toxicity risks
12:40–13:00	L-5	Badma Mankaev	Synthesis and Property Tuning of Biodegradable Copolymers Based on Lactide, ε-Caprolactone, and Functionalized Cyclic Carbonates
13:00–14:30		Lunch and Poster Discussion	
14:30–16:00		Session 3	
Chairperson:			
14:30–15:00	P-4	Tatiana Kuznetsova	TBA
15:00–15:30	P-5	Andrea Lazzeri	Beyond the Biodegradable Label: The Role of Processing, Morphology and Ageing in Disintegration and Microplastic Formation
15:30–15:45	S-1	Petr Fetin	Microplastics as pollutants sorbent and carrier
15:45–16:00	S-2	Elena Golubeva	Modelling the Pathways of Microplastics in the Arctic Ocean

16:00–16:15	Coffee break		
16:15–17:45	Session 4		
Chairperson:			
16:15–16:30	S-3	Vitaly Vorobiov	Fluorescently labeled microcrystalline cellulose as a model tracer for particle migration in soil
16:30–16:45	S-4	Elkhana Riabova	The impact of the waste landfill on microplastic pollution in snow of Bolshoy Solovetsky Island
16:45–17:00	S-5	Valeriia Serova	Synthesis and Polymerization of Novel Seven-Membered Cyclic Carbonates for the Preparation of Functionalized Biodegradable Polymers
17:00–17:15	S-6	Dmitrii Budkin	Assessment of Protein Oxidative Modification in Human PBMCs Following In Vitro Exposure to Amino-Modified Polystyrene Microplastic
17:15–17:30	S-7	Tatiana Guselnikova	Accumulation and release of some potentially toxic elements by polyethylene terephthalate, polypropylene, expanded polystyrene microplastics
17:30–17:45	S-8	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-6	Alexander Yaroslavov	Microplastics: What are they and why are they dangerous?
10:00–10:30	P-7	Geeta Somaroo	Microplastics in SIDS: Are Biodegradable/Degradable Polymers a Solution or Illusion?
10:30–11:00	P-8	Sabina Jhaumeer-Laulloo	Beyond Lined Single-Use Plastics: A Thermal and Spectroscopic Approach to Material Identification
11:00–11:20	Coffee-break		
11:20–11:40	L-6	Elena Filimonova	Evaluation of Latex Particle Transport in Sandy Aquifer
11:40–12:00	L-7	Sergei Shishlyannikov	Polyhydroxyalkanoate particle as biodegradable carriers for therapeutic delivery, replacing non-degradable synthetic polymer
12:00–12:20	L-8	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-9	Egor Zadereev	The combined effect of microplastics and toxicants of various nature on zooplankton
12:40–13:00	L-10	Margarita Redina	Quantitative assessment of the presence of microplastics as a part of aerosol atmospheric pollutions on the example of the RUDN University campus
13:00–14:30	Lunch and Poster Discussion		
14:30–16:00	Session 6		
Chairperson:			
14:30–15:00	P-9	Juan Carlos Rodriguez Murillo	Particle size distributions for data comparison and quality assessment in microplastic research
15:00–15:30	P-10	Sergey Filippov	Mechanisms Of Cellular Uptake And Toxicity Of Micro And Nanofibers In Intestine And Lung Cell Models
15:30–15:45	S-9	Alexandra Nikolaeva	Artificial Aging of Pristine and Rhodamine B-Dyed Model Polystyrene Microplastics
15:45–16:00	S-10	Mikhail Glagolev	Mesoscale Simulations of Structural Evolution and Stability of Aged Polyethylene Nanoparticles

16:00–16:15		Coffee-break	
16:15–17:45	Session 7		
Chairperson:			
16:15–16:30	S-11	Aleksandra Osechkova	Investigation of microplastic content in agricultural soils by pyrolytic gas chromatography-mass spectrometry
16:30–16:45	S-12	Alexey Khrushchev	Development of a Raman mapping method for assessing microplastic accumulation in chicken tissues
16:45–17:00	S-13	Aleksandr Khaustov	Identification of environmental risks of using polypropylene water pipes: microplastics in tap water
17:00–17:15	S-14	Alexey Dobrovskiy	Molecular Dynamics Simulations of Bisphenol A Release from Polyvinyl Chloride Microplastics
17:15–17:30	S-15	Evgeny Karpulevich	Robust and Explainable Identification of Microplastic Polymer Types from FTIR Spectra
17:30–17:45	S-16	Marina Gradova	Modeling the sinking and rising behavior of microplastic particles of various types and shapes

November 11, Wednesday

I.P. Chubarenko memorial session

9:30–11:30				Session 9	
Chairperson:					
9:30–10:00	P-11	Francesco Saliu			
10:00–10:30	P-12	Paolo Galli			
10:30–10:50	L-11	Boris Chubarenko	Retention zones for microplastics at river-sea interface - insight for the Baltic and Caspian seas		
10:50–11:10	L-12	Ekaterina Shalunova	The research experience of microplastic particle from bottom sediments in Murmansk region lakes		
11:10–11:30	L-13	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:			
11:50–12:10	L-14	Marina Antsiferova	Input Of Microplastics Into Natural Waters From Urban Agglomeration Areas
12:10–12:30	L-15	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-16	Igor Isachenko	Effects of currents and surface waves on the displacement of plastic particles on the bed
12:50-13:10	L-17	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-13	Weijun Yang	Interfacial Capture of Polylactic Acid Microplastics on Treated Hairy Crab Shell-Derived α-Chitin
15:00–15:30	P-14	Montserrat Filella	Plastics as vectors for trace elements
15:30–15:45	S-17	Larisa Nurtdinova	Application of upconversion luminescent composites for biovisualization in Artemia salina
15:45–16:00	S-18	Alexey Lezov	Physicochemical Characterization of Cellulose Nanocrystals in Aqueous Dispersions: Relevance to the Characterization of Submicron Polymeric Particles

16:00–16:15

Coffee-break

16:15–17:45

Session 12

Chairperson:

16:15–16:30	S-19	Liubov Abramova	Metabolic Pathway Analysis for Assessing the Condition of Fish Exposed to Microplastics
16:30–16:45	S-20	Victor Nazarychev	All-atom molecular dynamics simulations of antibiotic adsorption on microplastic nanoparticles coated with humic acids
16:45–17:00	S-21	Michail Tolstunov	Biodegradation of Polystyrene by Ulomoides Dermestoides Larvae: Analysis of Transformation Products by Pyro-GC-MS
17:00–17:15	S-22	Anastasia Vainberg	Preliminary Assessment of Microplastics in the Northern Fur Seal (<i>Callorhinus ursinus</i>) from the Sea of Okhotsk
17:15–17:30	S-23	Anatoliy Kozlov	Isolation of detergent-resistant bacterial isolates from the rhizosphere of Sosnovsky's hogweed as potential producers of biodegradable polymers
17:30–17:45	S-24	Elizaveta Shtro	Study of antibiotic adsorption by model polystyrene particles

November 12, Thursday

9:30–11:00			Session 13
Chairperson:			
9:30–09:45	P-15	Saraya Yusuke Hiroshi Uyama	TBA
09:45–10:15	P-16	Vladimir Chigrinov	Visualization and characterization of microplastics using birefringent materials and azo dye containing compounds
10:15–10:30	S-25	Anna Kharkova	Biosensors for microplastics measurement
10:30–10:45	S-26	Anna Shitikova	Effect of Amino-Modified Polystyrene Microplastic on the Mitochondrial Function of Human Peripheral Blood Monocytes
10:45–11:00	S-27	Gennady Kantakov	A holistic solution to the polymer problem of the Anthropocene

11:00–11:15	Coffee-break
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11:15–12:00	Session 14
<i>Chairperson:</i>	

11:15–11:30	S-28	Eugenia Tomilova	Microplastics in Food Products: From Seafood to Drinking Water and Dietary Supplements
11:30–11:45	S-29	Tatiana Rauen	Effect of microplastic ingestion on nuclear and mitochondrial parameters of <i>Oxyrrhis marina</i> compared to starvation and natural feeding
11:45–12:00	S-30	Yuriy Yurasov	Marginal filter zones of the Sea of Azov as a barrier to the spread of microplastics
12:00–12:30	Closing Ceremony		