

Venues: The workshop will take place in the Conference Hall at the Nikolaev Institute of Inorganic Chemistry, Siberian Branch of Russian Academy of Sciences (NIIC). You will stay at the “Golden Valley” (“Zolotaya Dolina”) Hotel. All meals, apart from dinner on Saturday, 24th, will be served there. There will be bus service every day from/to the workshop venue. However, if you fancy walking, the way takes only about 15-20 minutes.

Dress-code: Please account for Siberian winter weather. The temperature will be likely below 0°C with a permanent snow coverage. Therefore, warm jackets, jumpers, thermal underwear, socks, gloves, scarfs, shoes and hats are essential (in particular, for Saturday dinner!)

Thursday, 22nd November

Registration, Golden Valley Hotel hall	11.00-13.50
Lunch	12.00-13.30
Bus Service from the Hotel to NIIC	13.40
Workshop Opening by Prof. Fedin, NIIC	13.50-14.00
Session 1 ‘Colloidal systems and Polymer materials’ Chairs Prof Fedin & Prof Redshaw	
Keynote speaker: Carl Redshaw ‘Using the coordination chemistry toolbox to tackle societal issues’	14.00-14.30
Keynote speaker: Elena Bagryanskaya ‘Spin probes and spin labels. Application in EPR tomography and structural biology’	14.30-15.00
Coffee break	
Mariya V. Edeleva ‘Conventional way for preparation of amphiphilic block-copolymers for metal-crosslinked micelles with enhanced stability’	15.30-15.45
Masoomeh Bazzar ‘Near-infrared emitting polymer and oligomer nanoparticles conjugated polyrotexans and SPIONs’	15.45-16.00
Elena Krivoshapkina ‘Nanobioarchitectonics: directed design of hybrid materials’	16.00-16.15
Julio M. Rios de la Rosa ‘Labelling of Colloidal Systems: A Cellular to Preclinical Perspective’	16.15-16.30
Coffe-break/ Poster Session	
Welcome reception	19.30

Friday, 23rd November

Bus Service from the Hotel to NIIC	10.20
Session 2 'Imaging of biological molecules and cells'	
Chairs: Dr Laricheva & Dr Stasiuk	
Keynote speaker: Olga I. Lavrik 'Bioimaging of human protein complexes involved in repair of DNA damages'	11.00-11.30
Erum Hyder 'Human Induced pluripotent stem cells imaging in detection of pluripotent surface and nuclear markers'	11.30-11.45
Peter Kozhin 'Induction of redox sensitive signalling system to influence on processes of autophagy and lysosomal biogenesis in vitro'	11.45-12.00
Daria Novopashina 'Sequence-specific Fluorescent Probes for Nucleic Acid Visualization'	12.00-12.15
Tatiana S. Frolova 'Fluorescent labelling of ursolic acid for investigation of its cytotoxicity'	12.15-12.30
Lunch	
Bus Service from the Hotel to NIIC	13.45
Session 3 'Imaging agents for MRT, PET & CT'	
Chairs: Dr al-Rifaie & Dr Grayfer	
Keynote speaker: Steve Archibald 'Positron Emission Tomography Molecular Imaging of Receptor Targeted Radiopharmaceuticals'	14.00-14.30
Ruslan Cusnir 'Investigation of the effects of trace metal impurities on radiolabelling <i>tris</i> (3-hydroxy-4-pyridinone) with ⁶⁸ Ga'	14.30-14.45
Galina Zabrodina 'Water-soluble aminohydroximate 15-metallacrown-5 complexes towards potential MRI contrast agents for ultra-high magnetic field'	14.45-15.00
Coffee Break	
Benjamin Burke 'Nuclear Imaging of Magnetic Nanoparticles'	15.30-15.45
Francis Man 'PET Tracking of therapeutic Gamma-delta T-cells in a cancer model using ⁸⁹ Zr-oxine'	15.45-16.00
Richard Edwards, 'Design and Synthesis of an ¹⁸ F-Labelled Osimertinib Derivative [¹⁸ F]FIO for PET Imaging of Mutant EGFR'	16.00-16.15
Pavel A. Abramov, New materials for MRI and angiography based on polyoxometalates	16.15-16.30
Geology museum tour	
Workshop dinner	19.30

Saturday, 24th November

Bus Service from the Hotel to NIIC	10.20
Session 4 ‘Advancement of Imaging Techniques’	
Chairs: Dr de la Rosa & Dr Frolova	
Evgeny K. Apartsin ‘Interaction of hydrophobic trinuclear tungsten clusters with phospholipid bilayers: a route towards functional hybrid materials’	11.00-11.15
Dmitry Bagrov ‘Visualization of extracellular vesicles by transmission electron microscopy’	11.15-11.30
Mohammad Majid al-Rifaie ‘Tomographic Reconstruction with Reduced Projection Angles Using Swarm Intelligence’	11.30-11.45
Andrei Gorodetsky ‘Compact Room Temperature Sources for Terahertz Imaging’	11.45-12.00
Saim Memon ‘Developing Under-Water Microscopic Imaging for Microplastic Debris and Capture with Automated Integrated Technology Powered by Renewable Energy’	12.00-12.15
Graeme Stasiuk ‘Development of High Contrast Multimodal Imaging Agents’	12.15-12.30
Lunch	
Bus Service from the Hotel to NIIC	13.45
Session 5 ‘Nanomaterials’	
Chairs: Dr Romanov & Dr Abramov	
Keynote speaker: Mark Green ‘Nanomaterials for biology’	14.00-14.30
Tanveer Tabish ‘Nanostructured graphene for medical imaging and cell response’	14.30-14.45
Alsu Mukhametshina ‘Luminescent nanoparticles for monitoring of endogenous acetylcholine hydrolysis’	14.45-15.00
Coffee Break	
Ekaterina Grayfer ‘Synthesis of photoluminescent nanographitic shells and their potential for biological applications’	15.30-15.45
Sunjie Ye ‘Engineering novel gold nanostructures as probes for medical imaging’	15.45-16.00
Get dressed warm!	
“The taste of Culture” dinner	18.00

Sunday, 25th November

Bus Service from the Hotel to NIIC	10.20
Session 6 'Luminescent transition metal complexes'	
Chairs: Dr Bagrov & Dr Memon	
Olga Efremova & Michael Shestopalov 'Novosibirsk-Hull collaboration on octahedral metal clusters for biomedical research: the road so far'	11.00-11.30
Julia Shakirova 'Phosphorescent organometallic Ir(III) and Pt(II) compounds as prospective probes for the phosphorescence lifetime imaging'	11.30-11.45
Elena Koshel 'New phosphorescent probes based on transition metals complexes for bioimaging'	11.45-12.00
Aleksandr Romanov 'Carbene Metal Amides as a New Class of Highly Emissive Materials'	12.00-12.15
Workshop Closing	12.15-12.20
Lunch	