



6th International Conference on Thermoplastic Polymers



September 12th, Thursday

10:00 - 14:00 Scientific session (Chairman: Prof. Sergey Lyilin)

Conference hall, Sokos Hotel Vasilevsky

- 10:00 – 10:15 Prof. Sergey Lyulin, Institute of Macromolecular Compounds RAS
Introduction
- 10:15 – 10:40 Prof. Mikko Karttunen, University of Western Ontario, Institute of Macromolecular Compounds RAS
Computational modeling of cellulose: An overview
- 10:40 – 11:05 Dr. Maria Sammalkorpi, Aalto University
Water, salt and temperature effects in hydrated polyelectrolyte assemblies: molecular origins of plasticization response via molecular modelling
- 11:05 – 11:30 Dr. Tolmachev Dmitry, Institute of Macromolecular Compounds RAS
Qualitative and quantitative changes caused by simple Na⁺ and K⁺ ions in polyelectrolyte simulations
- 11:30 – 12:00 Coffee break
- 12:00 – 12:25 Artem Glova, Institute of Macromolecular Compounds RAS
Structure of biopolymer-based systems
- 12.25 – 12.50 Dr. Alexey Polockiy, Institute of Macromolecular Compounds RAS
Adsorption of semiflexible polymers onto structured surfaces
- 12:50 – 13:15 Mirko Bagnarol, University of Trento
Simulation of a radiation cancer therapy with CellSim3D



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- 11:00 – 11:25 Dr. Viktor Korzhikov, Institute of Macromolecular Compounds RAS
Biocomposite materials for bone tissue regeneration
- 11:25 – 11:50 Prof. Arto Urtti, University of Eastern Finland, Saint Petersburg State University
Critical Factors in the Design of Polymers as Ocular Drug Carriers
- 11:50 – 12:15 Dr. Iosif Gofman, Institute of Macromolecular Compounds RAS
Polymer hydrogels as cartilage implants: a survey of the achievements
- 12.15-12.40 Dr. Marcus Muller, University of Göttingen
Process-directed self-assembly
- 12:40 – 13:05 Dr. Hector Martinez-Seara, Institute of Organic Chemistry and Biochemistry, Czech Academy of Sciences
Raman, Raman Optical activity (ROA) and NMR as powerful tools to study the structure of small sugars in solution when coupled to computational methods
- 13:05 – 13:30 Michael Dobrinin, Saint Petersburg State University
New catalysts for cellulose-based silicones synthesis by hydrosilylation
- 13:30 – 13:55 Dr. Michael Smirnov, Institute of Macromolecular Compounds RAS
Application of deep eutectic solvents for preparation of cellulose nanomaterials