

CONFERENCE PROGRAM

Monday, August 20

Registration 16:00 – 19:00

Welcome party 18:00 – 19:30

Tuesday, August 21

9:10 – 9:25 Welcome and opening remarks

Session Chair: Ludmila Boinovich

9:25 – 10:10 **K1. Roger Horn** and S. Carnie (Australia).

Complex Behaviour of the Air-Water Interface.

10:10 – 10:35 **O1. Cathy E. McNamee, H. Kawakami (Japan). Reduction in the Inter-Surface Repulsive Forces between Two Charged Surfaces Containing Salts by the Presence of a Flow in the Liquid**

10:35 – 11:00 **O2. Pavel Dolganov (Russia). Interaction of Surfaces and Stability of Structures in Thin Smectic Free-Standing Films**

11:00-11:20 Coffee break

Session Chair: Jaroslaw Drelich

11:20 – 11:45 **O3. Marcelo Lozada-Cassou, E. González-Tovar, A. González-Calderón (Mexico).**

Very Long-Ranged Forces in Colloidal Dispersions at Finite Concentration

11:45 – 12:10 **O4. Vitaly Svetovoy, G. Palasantzas (Russia, The Netherlands).**

Adhered Cantilever: A New Method to Measure Dispersion Forces between Rough Surfaces at Short Distances

12:10 – 12:35 **O5. Kirill A. Emelyanenko, L.B. Boinovich (Russia). Effects of Spatial Confinement on the Dispersion Forces in Nanosized Alkane Films**

12:35 – 13:00 **O6. Kyosuke Ono (Japan). Disjoining Pressure and Diffusion Equation for Submonolayer Liquid Film**

13:00 – 14:00 Lunch

Session Chair: Alexandre Emelyanenko

14:00 – 14:45 **K2. Drew Parsons (Australia).**

Electrode Surface Forces: Modelling and Specific Ion Effects

14:45 – 15:10 **O7. Anatoly Filippov, T. Philippova (Russia). Cell Model of Ion-Exchange Membrane: Electroconductivity and Electroosmotic Permeability**

15:10 – 15:35 **O8. Kirill A. Komarov**, E.V. Yakovlev, N.P. Kryuchkov, S. O. Yurchenko (Russia). **Particle-Resolved Studies of Phase Transitions in 2D Colloidal Suspensions with Tunable Interactions in Rotating Electric Fields**

15:40 -16:00 Coffee break

16:00 – 17:40 **Poster Teasers Session**

17:40 – 19:00 **Poster session I**. The authors of posters with odd numbers are requested to be present at their posters during this session.

Wednesday, August 22

Session Chair: Cathy E. McNamee

9:10 – 9:55 **K3. M. Ludwig**, S. Schön, **Regine von Klitzing** (Germany).

Surviving Ordering in Colloidal Suspensions Confined from 3D to 2D?

9:55 – 10:20 **O9. Pavel Popovetskiy** (Russia) **The Structure of the Surface Layer of Silver Nanoparticles in Solutions of Nonionic Surfactants in Nonpolar Solvents**

10:20 – 10:45 **O10. Dietmar Lerche**, L. Rodriguez, T. Sobisch, S. Süß, D. Segets, W. Peukert (Germany).

Profiling Particle Surface by Hansen Parameters to Predict Particle-Particle and Particle-Liquid Interaction

10:45 – 11:05 Coffee break

Session Chair: Drew Parsons

11:05 – 11:50 **K4. Patrick Kekicheff**, J. Iss, P. Fontaine, A. Johner (France). **The Long-Range Attraction between Hydrophobic Surfaces: Direct Measurement of Lateral Correlations under Controlled Nano-Confinement**

11:50 – 12:15 **O11. Nikita M. Kuznetsov**, S.I. Belousov, D.Yu. Stolyarova, A.V. Bakirov, S.N. Chvalun, A.V. Shvidchenko, E.D. Eidelman, A.Ya. Vul' (Russia). **Detonation Nanodiamond Particles Organization in Hydrozols**

12:15 – 12:40 **O12. Himanshu Mishra**, S. Pillai, B.R. Shrestha, A. Sanchez, D. Bapat, V. Dalvi, T. Pascal, S.H. Donaldson Jr. (Saudi Arabia, India, USA, France). **Hydrophobic Interactions Between Rigid Surfaces in Light and Heavy Water, Alcohols, and Various Electrolytes**

12:40 – 13:05 **O13. Alexey G. Bykov**, G. Loglio, R. Miller, B.A. Noskov (Russia, Italy, Germany). **Aggregation of Charged Polystyrene Particles at Liquid Surfaces**

13:05 – 14:00 Lunch

Session Chair: Vitaly Svetovoy

14:00 – 14:45 **K5. Jaroslaw Drelich** (USA). **Direct Measurements of Liquid Adhesion with Solids: Gateway to a Multi-Faceted Understanding of Contact Angles**

14:45 – 15:10 **O14. Adya Karthikeyan**, E. Kasperek, P.-L. Girard-Lauriault, S. Coulombe, A.-M. Kietzig (Canada). **Tuning the Wettability of a Multi-Walled Carbon Nanotube Grown Stainless-Steel Mesh**

15:10 – 15:35 **O15. Alexandre M. Emelyanenko**, K.A. Emelyanenko, L.B. Boinovich (Russia). **Anisotropic Spreading Along the Textured Surfaces with Isotropic Wetting**

15:35 – 16:00 Coffee break

Session Chair: Maria Kalinina

16:00 – 16:25 **O16. D.C. Malaspina and Jordi Faraudo** (Spain). **Wetting Behavior and Amphiphilic Character of Cellulose Nanocrystals from All-Atomic MD Simulations**

16:25 – 16:50 **O17. Volfango Bertola** (United Kingdom) **The Origin of Contact Line Forces during Dewetting of Dilute Polymer Solutions**

16:50 – 17:15 **O18. B. Cross, C. Barraud, F. Restagno, L. Leger, Elisabeth Charlaix** (France) **Dynamic Flow of Confined Polyelectrolyte Solutions: Interfacial Friction and Complex Slip Length**

17:15 – 17:40 **O19. T.S. Dembelova, Dagzama N. Makarova, B.B. Badmaev, B.B. Damdinov** (Russia) **Shear Elasticity of Thin Layers of Colloid Suspensions of Nanoparticles**

17:40 – 18:00 **O20. Andrey V. Lyushnin** (Russia) **Solutocapillary Instability of Ultrathin Liquid Films**

18:00 – 19:30 **Poster session II**. The authors of posters with even numbers are requested to be present at their posters during this session.

NEW!

20:00 – 21:30 Concert of Kazan Chamber Orchestra “La Primavera”

Thursday, August 23

Session Chair: Regine von Klitzing

9:10 – 9:55 **K6. Todd M. Squires**, A. Banerjee, N. Shi, X. Tang, A. Bayles (USA). **Soluto-Inertial Interactions: Designing Long-Range, Chemically-Specific Interactions in Suspensions**

9:55 – 10:20 **O21. Masashi Mizukami**, H.-Y. Ren, H. Furukawa, K. Kurihara (Japan) **Deformation of Contacting Interface between Polymer Hydrogel and Silica Sphere Studied by Resonance Shear Measurement**

10:20 – 10:45 **O22. Olga Yu. Milyaeva**, A.G. Bykov, R. Miller, B.A. Noskov (Russia, Germany) **Influence of Lysozyme on Dynamic Surface Properties of Silica Nanoparticles Dispersions**

10:45 – 11:05 Coffee break

Session Chair: Jordi Faraudo

11:05 – 11:50 **K7. Georg Papastavrou** (Germany).

New Colloidal Probes for Direct Force Measurements with the AFM.

11:50 – 12:15 **O23. Maria A. Kalinina**, A.I. Zvyagina, A.E. Baranchikov, A.R. Tameev, A.A. Ezhov, D.A. Grishanov, V.V. Arslanov (Russia).

Self-Assembly of Colloidal “Harlequins”: Monolayers of Graphene Oxide on Solids with Different Surface Energy

12:15 – 12:40 **O24. Boris Noskov**, S-Y. Lin, G. Loglio, R. Miller, O. Milyaeva, M. Krycki (Russia, Taiwan, Italy, Germany).

Dynamic Surface Properties of Protein/Surfactant Solutions

12:45 – 13:45 Lunch

14:00 – 19:00 Excursion to Sviyazhsk island

19:30 – 22:00 Conference Dinner

Friday, August 24

Session Chair: Svetlana Derkach

9:00 – 9:45 **K8. Lucia Zakharova** (Russia). **Self-Organization of Amphiphilic Compounds as a Powerful Tool for the Design of Smart Nanocontainers**

9:45 – 10:10 **O25. Olga T. Kasaikina**, N.V. Potapova, D.A. Krugovov (Russia)
Formation and Properties of Reverse Mixed Micelles of Cationic Surfactants with Hydroperoxides

10:10 – 10:30 **O26. Natalia Selivanova**, Y. Galyametdinov (Russia). **Liotropic Liquid Crystals – Multifunctional Media for Molecular Electronics and Biomedicine**

10:30 – 10:50 **O27. Sofia L. Selektor**, A.V. Shokurov, D.S. Kudinova, A.G. Martynov, Yu.G. Gorbunova, V.V. Arslanov, A.Yu. Tsivadze (Russia)
Surface Pressure Controlled Redox Isomerism in Monolayers and Langmuir-Blodgett Films of Crown-Substituted Bisphthalocyaninates of Lanthanides

10:50 – 11:10 Coffee break

Session Chair: Alexander Shchekin

11:10 – 11:35 **O28. N. Ryzhkov**, Y. Lanchuk, A. Nikitina, N. Brezhneva, **Ekaterina V. Skorb** (Russia). **Stability of Polyelectrolyte Assemblies to Photocatalytic Degradation**

11:35 – 11:55 **O29. Svetlana R. Derkach**, N.G. Voron'ko (Russia). **Self-Organization of Mixed Systems Containing Ionic Polysaccharide and Gelatin in the Bulk**

11:55 – 12:20 **O30. Tatiana N. Pashirova**, I.V. Zueva, K.A. Petrov, V.M. Babaev, E.A. Buriilova, D.A. Samarkina, A. Braïki, L. Jean, P.-Y. Renard, E.B. Souto, P. Masson, L.Ya. Zakharova, O.G. Sinyashin (Russia, France, Portugal).

Self-Assembly Strategy for Brain Protection and Treatment of Organophosphorus Poisoning Using Oximes-Loaded Lipid Nanoparticles

12:20 – 12:40 **O31. Anton Muravev**, E. Ivanova, A. Yakupov, F. Galieva, V. Semenov, M. Kadirov, S. Solovieva, I. Antipin (Russia). **Aggregation Behavior of Heterocyclic Derivatives of (Thia)calix[4]arenes at the Air-Water Interface**

12:40 – 13:00 **O32. Ruslan R. Kashapov**, A. Ziganshina, J.S. Razuvayeva, S.S. Lukashenko, L.Y. Zakharova (Russia). **Supramolecular Amphiphilic Systems Based on Calix[4]resorcinols**

13:00 – 14:00 Lunch

Session Chair: Lucia Zakharova

14:00 – 14:25 **O33. Alexander K. Shchekin**, L.Ts. Adzhemyan, I.A. Babintsev (Russia). **Kinetics of Micellar Aggregation: Molecular Mechanism versus Fusion-Fission Mechanism**

14:25 – 14:45 **O34. Maria G. Chernysheva**, G.A. Badun, A.V. Shnitko, A.V. Sinolits, A.L. Ksenofontov (Russia). **Lysozyme Adsorption Layers at Different Interfaces: Water-Air, Water-Xylene and Water-Diamond as Studied by Tritium Probe**

14:45 – 15:05 **O35. Vladimir Burilov**, R. Ibragimova, A. Valiyakhmetova, G. Fatikhova, D. Mironova, E., Sultanova S. Solovieva, I. Antipin (Russia). **New Calixarene Amphiphiles through “Click” Chemistry – Promising Self-Assemble Receptors**

15:05 – 15:25 **O36. Julia Morozova**, Ya. Shalaeva, A. Ermakova, V. Syakaev, I. Nizameev, M. Kadirov, A. Voloshina, V. Zobov, E. Kazakova, A. Kononov (Russia). **Amphiphilic Resorcinarenes in the Construction of Supramolecular Systems in the Solution and at the Interfaces**

15:25 – 15:45 **O37. Guzaliia Fatykhova**, V.A. Burilov, D.A. Mironova, I.S. Antipin, S.E. Solovieva (Russia). **Receptors for Biomolecules Based on New Cationic and Anionic Calix[4]arene Amphiphiles**

15:45 – 16:00 Closing the Conference