CONFERENCE PROGRAMME

ECLC2017.MSU.RU

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Welcome

On behalf of the Organizing Committee it is a great pleasure to welcome you to the 14th European Conference on Liquid Crystals (ECLC 2017) in Moscow, Russia. This Conference will bring together several hundreds of specialists from academic and industrial research centers across the world. ECLC 2017 is dedicated to the 90-th anniversary of Frederiks effect which has provided the basis for the display technology. Vsevolod Frederiks (Freedericksz, 1885—1944) was a Russian physicist, the founder of the liquid crystal scientific school in Russia.

The conference lectures and posters will start with the ECLC 2017 Opening Ceremony on Monday morning (June, 26) and will continue until Friday afternoon (June, 30). We also invite you to participate in our Social Program including Welcome Reception on Sunday (June, 25), Moscow by Night Excursion on Monday, a number of excursions on Wednesday, and a Conference Banquet on Thursday.

The final program includes 5 plenary talks, 34 invited talks, 124 oral presentations and 139 posters. Each day will start from a plenary talkfollowed by invited and oral talks. The twoPoster Sessions will take place on Tuesday and Thursday from 14:00 to 16:00. Each participant can reserve a part of his/her poster session time to visit the Earth Science Museum in the Main Building of Moscow State University.

During the Conference we invite participants to visit an exhibition demonstrating the production of industrial companies and publishing editions. We expect that exhibition will be useful for providing information about recent developments of scientific equipment, as well as about new scientific literature.

There will be the Opening Ceremony of BOEoffice in Moscow (one of the Conference General Sponsors) nearby the Poster Session on Tuesday between 14:00 and 16:00. The welcome surprises from BOE are expected.

We hope that your participation in ECLC 2017 in Moscow will be scientifically rewarding and that your stay in Moscow will be enjoyable, comfortable and memorable.

Alexei Khokhlov, ECLC 2017 Chair

Alexander Emelyanenko, ECLC 2017 Co-Chair

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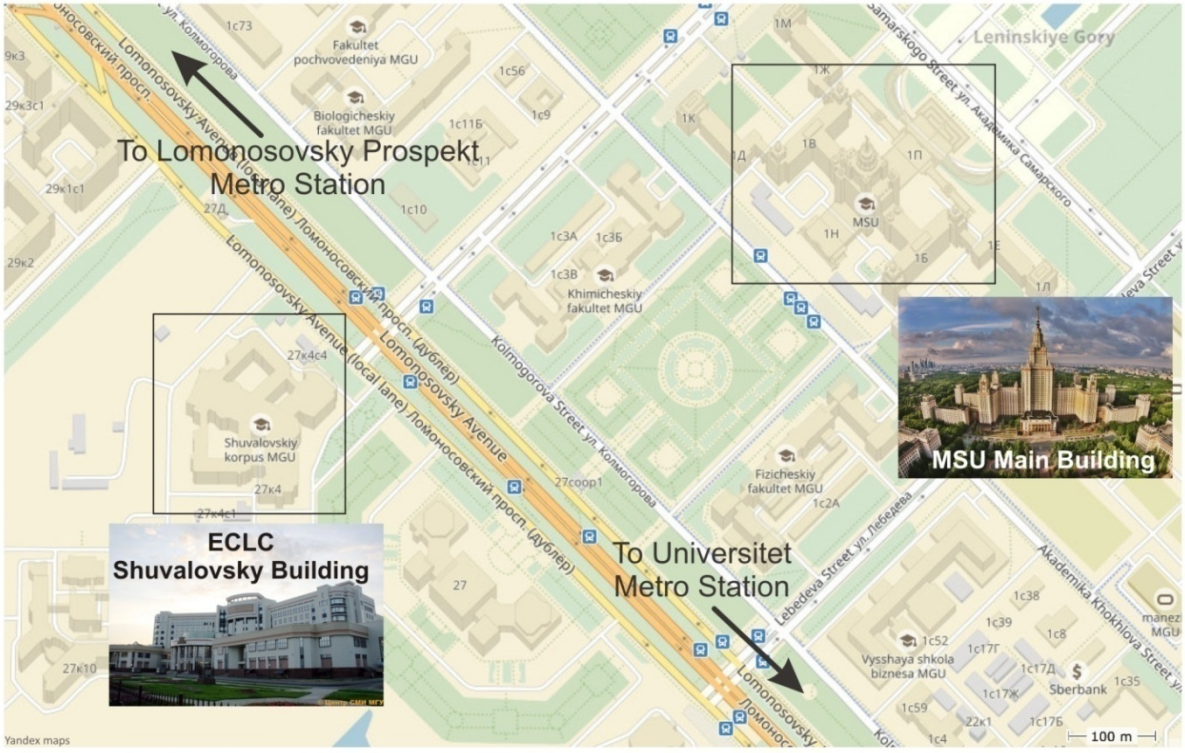
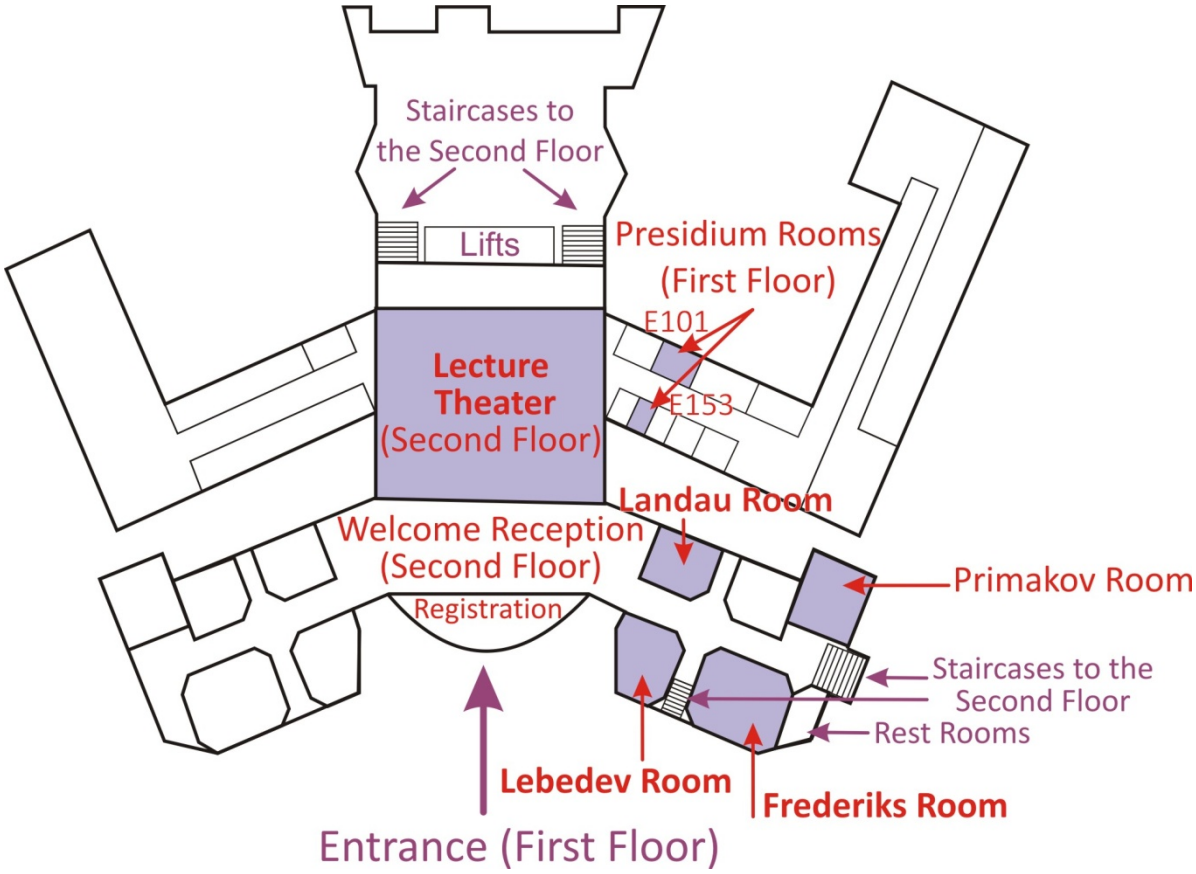
Conference Venue

Shuvalovsky Building of Moscow State University (MSU)

(Lomonosovskiy prospekt, 27/4 bldg.)



Scheme of Shuvalovsky Building



Conference Programme

Sunday 25th June
16:00-20:00 **Registration**
20:00- **Welcome Party**

Monday 26th June		
9:00-9:30 Lecture Theater Opening remarks: **Alexei Khokhlov**		
9:30-10:20 Lecture Theater, Chair: Alexander Emelyanenko Plenary 1: **Nikolay Tsvetkov**, St. Petersburg State University, Russia, *Vsevolod Konstantinovich Freedericksz - the founder of the Russian school of physics of liquid crystals*		
10:20-10:50 Lecture Theater, Chair: Alexander Emelyanenko I1. **Nelson Tabiryan**, BEAM Co., USA, *The Augmented Reality of Liquid Crystal Optics* (Frederiks Award Lecture)		
10:50-11:10 **Coffee break**		
Novel LC Phases, Structure and Phase Behaviour (I) Frederiks Room, Chair: EvgenyPozhidaev	**Design and Synthesis of LC Materials (I)** Landau Room, Chair: Vladimir Besborodov	**Applications of Liquid Crystals (I)** Lebedev Room, Chair: Vladimir Chigrinov
11:10-11:40 I2. **Helen Gleeson**, University of Leeds, UK, *Continuing surprises from bent-core liquid crystals*	11:10-11:40 I6. **Yuriy Galyametdinov** , Kazan National Research Technological University, Russia, *Lanthanide Containing Metallomesogens: Creation and Properties*	11:10-11:40 I10. **Arne Buesing**, Merck, Germany, *History and future aspects of liquid crystal materials from an industrial perspective*
11:40-12:00 O1. **Stanislaw Urban**, *Fluorosubstituted nematogens with high positive or high negative dielectric anisotropies enabling formulation mixtures useful for various applications*	11:40-12:00 O13. **Zbigniew Galewski**, *Esters of 4-nitrocinnamic acids and 4-alkyloxy-4'-hydroxyazobenzenes - synthesis and mesogenic studies*	11:40-12:00 O25. **Svetlana Lukishova**, *Ultrabright Polarized Nanocrystal Sources: Liquid Crystal/Nanoplasmonic Hosts for Displays, Light-Emitting Diodes, Microlasers, and Single-Photon Sources for Quantum Information*

12:00-12:20 O2. **Sharmistha Ghosh**, *Large Kerr constant observed in BPIII derived from four-ring bent-core liquid crystals*	12:00-12:20 O14. **Izabela Korbecka**, *Esters of carboxylic acids and 4-hexyl-4'-hydroxyazobenzene - synthesis and mesogenic studies*	12:00-12:20 O26. **Yang Liu**, *Alignment of Liquid Crystals on Ion Beam Spurted Graphene Oxide Thin Layers*
12:20-12:40 O3. O. **Georg Mehl**, *Extending the structural parameters of systems with two nematic phases*	12:20-12:40 O15. **Matthias Lehmann**, *Free Space in Liquid Crystals – Generation, Design and Application*	12:20-12:40 O27. **Inge Nys**, *Surface mediated alignment of chiral nematic liquid crystal structures*
12:40-13:00 O4. **Wojciech Tomczyk**, *Modulated nematic phases formed by bent-shaped molecules*	12:40-13:00 O16. **Michal Kohout**, *Design and synthesis of novel photosensitive bent-core liquid crystals – structure-property relationship*	12:40-13:00 O28. **Susete Fernandes**, *Cellulose nanocrystal films' new photonic properties: mimicking Plusiotis resplendens cuticule*
13:00-14:00 **Lunch**		
Novel LC Phases, Structure and Phase Behaviour (II) Frederiks Room, Chair: Vladimira Novotna	**Design and Synthesis of LC Materials (II)** Landau Room, Chair: John Goodby	**Photonic, Electro- and Photo-Responsive LC Systems (I)** Lebedev Room, Chair: Janusz Parka
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14:30-15:00 I4. **Cesare Umeton**, University of Calabria, Italy, *Collective Photo-Heating of Nematic Liquid Crystals doped with Gold Nanoparticles*	14:30-15:00 I8. **Vladimir Bezborodov**, Belarusian State Technological University, Belarus, *Supramolecular Chemistry of anisotropic compounds and self-organized processes. Prospects of the development of new materials and devices*	14:30-15:00 I12. **Alexei Bobrovsky**, Lomonosov Moscow State University, Russia, *Photo- and electro-induced orientational processes in LC polymer systems*
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12:00-12:20 O38. **Wiktor Lewandowski**, *Dynamic self-assembly of liquid-crystalline quantum dots*	12:00-12:20 O47. **Go Watanabe**, *Estimating Helical Twisting Powers of Chiral Metal Complexes Doped in Nematics by Using Molecular Dynamics Simulation*	12:00-12:20 O56. **Alexander Zolot'ko**, *Light-Induced Freedericksz Effect in Nematic Polymer*
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Landau Room, Chair: Serguei Palto</td><td>Photonic, Electro- and Photo-Responsive LC Systems (V)
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I23. Alexey Eremin, Otto von Guericke University Magdeburg, Germany, On the way to active colloids: photo-driven motion in complex liquid crystalline structures</td></tr>
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<tr><td>Ferroelectric and Ferromagnetic LC Systems (II)
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16:20-16:50 I27. **Antal Jakli**, Kent State University, USA, *Assembly driven curvature in chiral nematic liquid crystals*	16:20-16:50 I30. **Samo Kralj**, University of Maribor, Slovenia, *Geometry enforced assemblies of topological defects*	16:20-16:50 I33. **Jui-Hsiang Liu**, National Cheng Kung University, Republic of China (Taiwan), *Imprinting of Cholesteric Liquid Crystal Constructions Via UV-Induced Polymerization*
16:50-17:10 O86. **Alexander Ryabchun**, *Patterned liquid crystal polymer photo-actuators*	16:50-17:10 O96. **Pavel Dolganov**, *Structures Formed by Inclusion Self-Organization in Free Standing Smectic Films*	16:50-17:10 O106. **Young-Wan Kwon**, *Magnetic Properties of Discotic Liquid Crystals with Ordered Structure*
17:10-17:30 O87. **Natalia Boiko**, *Light-controllable orientation processes in side-chain azobenzene-containing LC copolymers and triblock copolymers*	17:10-17:30 O97. **Vladimir Dolganov**, *Orientational Action of Edge Dislocations on Molecular Tilt in Smectic Films*	17:10-17:30 O107. **Chao Ping Chen**, *Dual-View Liquid Crystal Display Using Patterned Etype Polarizer*
17:30-17:50 O88. **Lukas Braun**, *Microfluidic Synthesis of a Light-driven Liquid Crystalline Elastomer Micropump*	17:30-17:50 O98. **Mohammad Mohammadimasoudi**, *Full alignment of dispersed colloidal nanorods in LC*	17:30-17:50 O108. **Ivan Vartaniants**, *Study of the bond-orientational order by means of angular X-ray cross correlation analysis*
17:50-18:10 O89. **Marta Lavric**, *Elastocaloric effect in liquid crystal elastomers*	17:50-18:10 99. **Tetiana Orlova**, *Field-induced topological transformations of chiral nematic micro-spheres*	17:50-18:10 O109. **Žiga Kos**, *Cross-talk between topological defects in different fields revealed by nematic microfluidics*
19:00-23:00 **Conference Dinner**		

Friday 30th June
9:00-9:40 Frederiks Room, Chair: Sven Lagerwall Plenary 5: **Serguei Palto**, Shubnikov Institute of Crystallography, Russia, *Photonic systems based on spatially modulated liquid crystals*
9:40-10:20 Frederiks Room, Chair: Sven Lagerwall I34. **Show-An Chen**, National Tsing Hua University, Taiwan, *Progress of Semiconductive Polymers for Opto-Electronic Interconversion and Conductive Coating: Molecular Design and Morphological Control* (RAS Honorary Doctorate Lecture)

Photonic, Electro- and Photo-Responsive LC Systems (VI) Frederiks Room, Chair: Vladimir Dmitrienko	**Confined LC Systems and Defects (IV)** Landau Room, Chair: Valery Loiko	**Biological, Lyotropic and Chromonic LC systems (I)** Lebedev Room, Chair: Nadezhda Usol'tseva
10:20-10:40 O110. **Grzegorz Pajak**, *Influence of the external fields on nematic twist–bend phase*	10:20-10:40 O115. **Sergei Semenov**, *Surface Anchoring and Director Distribution in Grandjean-Cano Wedge*	10:20-10:40 O120. **Cheng Wu**, *Directing structure in colloidal liquid crystals with patchy rod-like particles*
10:40-11:00 **Coffee break**		
Photonic, Electro- and Photo-Responsive LC Systems (VII) Frederiks Room, Chair: Vladimir Dmitrienko	**Confined LC Systems and Defects (V)** Landau Room, Chair: Valery Loiko	**Biological, Lyotropic and Chromonic LC systems (II)** Lebedev Room, Chair: Nadezhda Usol'tseva
11:00-11:20 O111. **Boris Umanskii**, *Chiral Symmetry Breaking in Liquid Crystals Due to Flexoelectric Effect*	11:00-11:20 O116. **Dina Shmeliova**, *Rheology of liquid crystals confined to porous polymer (PET) film*	11:00-11:20 O121. **Baeckkyoung Sung**, *2D to 1D Morphology Transition in Self-Assembly of Hexagonally Packed Rod-Like Viruses*
11:20-11:40 O112. **Mikhael Halaby Macary**, *Electronic and ionic ambipolar transports in the isotropic, SmA, SmB and Crystalline phases of a liquid crystal*	11:20-11:40 O117. **Nikita Solodkov**, *Liquid Crystal Microdroplets and Confined Systems for Novel Shutters*	11:20-11:40 O122. **Tommaso Bellini**, *Liquid Crystal Formation of Mononucleotide Triphosphates by Base-Pairing and Duplex Stacking in Aqueous Solution*
11:40-12:00 O113. **Maciej Czajkowski**, *Chiral ionic liquids for electrically-controlled cholesteric gratings*	**LC Polymers, Elastomers, Colloids and Gels (III)** Landau Room, Chair: Valery Loiko 11:40-12:00 O118.**David Ditter**, *Microtechnical processing of liquid crystal elastomers*	11:40-12:00 O123. **Yuri Yevdokimov,***DNA Liquid-Crystalline Dispersion Particles as a Platform for Creation of "Rigid" Spatial Structures*
12:00-12:20 O114. **Jure Aplinc**, *Liquid crystal gyroids as photonic crystals*	12:00-12:20 O119. **Elena Govorun**, *Self-Assembly of Polymers and Amphiphilic Molecules*	12:00-12:20 O124. **Veronika Gdovinova**, *AFM and SAXS studies of interaction of magnetic nanoparticles with lyotropic liquid crystal*
12:20-13:00 **Closing Remarks**		
13:00-14:30 **Lunch and Depart**		

Poster Presentations – Tuesday

Novel LC Phases, Structure and Phase Behaviour

P1	**Jose Carvalho**	*Orientational order of the NU and NTB phases probed by 1H and 2H NMR spectroscopy*
P2	**Minko Petrov**	*Smectic CG phase in hydrogen bonded in dimers liquid crystals*
P3	**Evgeny Aver`yanov**	*Change in the polarizability of molecules at the phase transitions isotropic liquid – nematic – smectic-A – crystal-B in liquid crystal 4O.8*
P4	**Evgeny Aver`yanov**	*Change in the spectrum of the polarizability density of molecules at the smectic-A – crystal-B phase transition*
P5	**Satoshi Aya**	*"Inversed" temperature dependence of anchoring strength triggered by interfacial wetting*
P6	**Dmitry Molodenskiy**	*X-ray diffraction and Calorimetry studies of Liquid Crystal with Monotropic Hexatic Phase*
P7	**Joao Figueirinhas**	*Orientational order in the NU and NTB phases of CBC9CB probed by 1H and 2H NMR spectroscopy*
P8	**Ivan Zaluzhnyy**	*Reconstruction of a pair distribution function from x ray diffraction patterns in hexatic liquid crystals*
P9	**Anna Bagdinova**	*Nanoprofilometry of the Free Surface of Liquid Crystals*
P10	**Amid Ranjkesh Siahkal**	*Order parameter and crossover temperature for low birefringence liquid crystals*
P11	**Stanislaw Urban**	*Fluorosubstituted nematogens with high positive or high negative dielectric anisotropies enabling formulation mixtures useful for various applications*
P12	**Andreja Lesac**	*Induced smectic phase in binary mixture of twist-bent nematogens*
P13	**Riccardo Barberi**	*Time modulated order reconstruction in nematic liquid crystals*
P14	**Yelena Vasil`chikova**	*Mesogens Orientation on Spherical Interfaces*
P15	**Vladimir Kolosov**	*Transrotational Crystals Formed in Amorphous Films*
P16	**Hamit Yurtseven**	*Pippard Relations at Various Temperatures for the Cholesteryl Myristate Close to the Cholesteric / Smectic A Transition*

Design and Synthesis of LC Materials

P17	**Sofia Torgova**	*Short Bent–Core Molecules*
P18	**Ewelina Tomczyk**	*Light-induced Optical Switching of Coupled Plasmons of Noble Metals Liquid Crystalline Nanoparticles*
P19	**Nadezhda Usol`tseva**	*Modeling and Prediction of Columnar Mesomorphism of Star-Shaped Discotic Compounds with Azo- and Oxadiazole Groups*
P20	**Alessio Riccobono**	*Ionic liquid crystals based on 1,2,4-triazolium rings*
P21	**Alexey Bubnov**	*Design of ferroelectric liquid crystals with keto group possessing sub-micrometer helical pitch length*
P22	**Robert Deschenaux**	*The olefin cross-metathesis reaction for the design of liquid crystals*
P23	**Moritz Dechant**	*Phthalocyanine Hybrid Star Mesogens – New Materials for Potential Photovoltaic Applications*
P24	**Maciej Baginski**	*Dynamic self-assemby of Ag nanoparticles covered with semifluorinated LC ligands*
P25	**Alexey Bubnov**	*Chiral photosensitive acrylate monomers for design of smart self-assembling polymers*
P26	**Alexey Bubnov**	*Synthesis and self-assembling properties of photosensitive lactic acid derivatives*
P27	**Gurkan Karanlik**	*The Chiral Rod-like Mesogens Incorporating Azomethine Units*
P28	**Matthias Lehmann**	*Does the Magic Angle promote the formation of nematic liquid crystals?*
P29	**F. Pinar Caglar-Eyol**	*The Influence of Linking Groups on the Mesomorphic Behaviour of New Chiral Rod-Like Mesogens*
P30	**Hiroaki Okamoto**	*Liquid Crystal Property and Gelation Ability of 4-Semifluoroalkylthiophenyl 4-Alkoxybenzoates*
P31	**Hale Ocak**	*The Unsymmetric Bent-Core Compounds Derived From 3,4`-Biphenyldiol with a Chiral Group*
P32	**Byeong-Cheon Kim**	Helical Twisting Power in Mixtures consisting of Achiral Bent-core Molecules and a Cholesteric Liquid Crystallie Molecule
P33	**Luma Fritsch**	*Kinetic studies of hydrolysis of liquid crystalline Schiff bases and its healing through Aza Diels-Alder reaction*
P34	**Magdalena Zurowska**	*Synthesis and properties of new liquid crystalline materials in their racemic forms and as (S) and (R) enantiomers*

P35	**Vaclav Kozmik**	*Synthesis and mesomorphic behaviour of liquid crystals with 3-chlorobenzo[b]thiophene-2-carboxylic acids as central core*
P36	**Vera Hamplova**	*Enantioseparation by liquid chromatography as an effective method for testing the optical purity of chiral liquid crystalline materials*
P37	**Vladimir Bezborodov**	*Anisotropic derivatives of ethyl L-lactate*
P38	**Vladimir Bezborodov**	*Design of anisotropic materials based on quaternary ammonium salts «Gemini» type*

Photonic, Electro- and Photo-Responsive LC Systems

P39	**Ivan Simdyankin**	*Circular Dichroism in Chiral Nematic Liquid Crystals*
P40	**Boris Umanskii**	*In-plane luminescence of undulated cholesteric structures in electric field*
P41	**Sergey Kharintsev**	*Photoinduced heating of freestanding azobenzene-functionalized polymers studied by scanning thermal microscopy*
P42	**Van Bao Bui**	*Response Time Improvement in Terahertz Wave Phase Shifter Using Nanofiber and Liquid Crystal Composite*
P43	**Vladimir Kesaev**	*Modulation of unpolarized light in planar aligned deformed-helix ferroelectric liquid crystals with sub-wavelength helix pitch*
P44	**Jeon Sung-Wook**	*Chirality in Achiral Binary Mixture consisting of Bent-Core Molecules and Rod-like Molecules*
P45	**Alexei Kiselev**	*Light Modulation in Deformed Helix Ferroelectric Liquid Crystals and Phases of Mixed Polarization States*
P46	**Ching-Shun Wang**	*Frequency-dependent electro-optical characteristics of BP III liquid crystal*
P47	**Doina Manaila-Maximean**	*Luminescent and dielectric properties of a series of lanthanide-containing liquid crystals*
P48	**Vitaly Sutormin**	*Electrically induced anchoring transitions in nematics with various dielectric anisotropy*
P49	**Yuriy Galyametdinov**	*The features of nematic phase behavior in lanthanidmesogens*
P50	**Alexander Parshin**	*Interference of the light passing through LC domains formed on the polymer surface*
P51	**Pavel Dolganov**	*Fluorescence of Liquid Crystals with Photonic Stop Band*

P52	**Zurab Wardosanidze**	*Holographic laser structures in dye doped liquid crystal and polymer layers controlled by transversally distributed pumping*
P53	**Cesar Folcia**	*Evidence of optical absorption enhancement in cholesteric liquid crystals at both edges of the photonic band gap*
P54	**Josu Ortega**	*Optimizing the performance of cholesteric liquid crystal lasers: the dependence on the sample thickness*
P55	**Jesus Etxebarria**	*Measurement of the flexoelectric difference (e1-e3) in achiral materials by an extension of the crystal rotation method operating in an AC-electric-field regime*
P56	**Dmitry Yakovlev**	*A theory of light scattering on nematic and cholesteric layers with random planar alignment*
P57	**Andro Chanishvili**	*Photo-Induced Color Change in an Optically Active Cholesteric Liquid Crystal Layer*
P58	**Tetiana Orlova**	*Light-induced helix handedness inversion in planar cholesteric liquid crystal cells*
P59	**Galina Zharkova**	*Electrooptics of PDLC and HPDLC doped Inorganic Oxides Nanoparticles*
P60	**Denis Chausov**	*Specter photosensibility of optical anisothropyin solid films (vinyl cinnamate)*
P61	**Mohammad Mohammadimasoudi**	*All-optical tunable chiral nematic liquid crystals*
P62	**Nune Hakobyan**	*Investigation of electro-optical characteristics of liquid crystal cell with graphene electrodes*
P63	**JaeHyun Bae**	*Reflective Liquid-Crystalline Device using Polymer-stabilized Simple Cubic Blue Phase (BPII)*
P64	**Maxim Khazimullin**	*Impedance Spectroscopy of Liquid Crystals: Effect of Blocking Electrodes with Stern Layers*

Theory and Simulations of LC Systems (I)

P65	**Evgeniia Filimonova**	*Piezoelectric spontaneous polarization in smectic phases composed of bent molecules*
P66	**Liliia Elnikova**	*Monopole Currents and Topological Charges in Active Nematic Liquid Crystals*
P67	**Edward Gevorkyan**	*Hierarchy of Spatial Scales and Relaxation Times in Liquid Crystalline Structures*
P68	**Alexey Kalugin**	*About Periodical Solution in the Nematic Liquid Crystal Layer*
P69	**Alexey Kalugin**	*On the Role of Splay-Bend Frank Constant in the Director Field Distribution of Nematic Droplet*
P70	**Ke Liu**	*Theory, Phase Transition and Order Parameter of Point-Group Liquid Crystals*

P71	**Lyazzat Abulyaissova**	*Quantum Chemical Modeling of Molecular Interactions of Azobenzenes*
P72	**Alexey Astakhov**	*Azodendrimer LCD2-8azo6 in liquid crystal 5CB: atomistic and mesoscale computer simulation*
P73	**Daria Maltseva**	*Orientationally ordered intraglobular structures in a single flexible-semiflexible copolymer chain: Stochastic Approximation Monte Carlo simulation*
P74	**Sergei Pestov**	*Modelling of physical properties of liquid crystal materials for opto-electronics*
P75	**Katsuhiko Sato**	*Effect of Coulomb interaction on the formation of ionic liquid crystal phases by molecular dynamics simulation*
P76	**Katsuhiko Sato**	*Relationship between thermodynamic scaling and Stokes-Einstein relation in liquid crystal phases*
P77	**Liliia Elnikova**	*Sobolev Mapping and Topological Defects in Some Nematic Liquid Crystals*
P78	**Anastasiia Svanidze**	*Theoretical and Numerical Investigation of Liquid Crystal Cells with Nonuniform Director Distribution*
P79	**Valery Loiko**	*Spectral polarization of transmission radiation by uniaxially stretched polymer-dispersed liquid crystal films with modified interphase surface anchoring*

Poster Presentations – Thursday

Theory and Simulations of LC Systems (II)

P80	**Alexander Zakhlevnykh**	*Magnetic Field Induced Biaxial Phases in Ferronematic Liquid Crystals*
P81	**Dmitry Yakovlev**	*A system for computer modeling of the electrooptical properties of cholesteric diffraction gratings*
P82	**Stanislaw Urban**	*Activation volume of selected liquid crystals in the density scaling regime*
P83	**Alexey Mantsurov**	*Magnetic Properties of a Liquid-Crystalline Suspension of Anisometric Particles*
P84	**Dmitriy Makarov**	*Untwisting of a Cholesteric Structure by Shear Flow and Magnetic Field*
P85	**Izabela Sliwa**	*Finite-size effects in thin liquid-crystal systems*
P86	**Ksenia Kuznetsova**	*Orientational Transitions in Compensated Ferrocholesterics*
P87	**Natalia Chumakova**	*Orientation distribution functions of spin probes in liquid crystal matrixes – high rank order parameters.*

P88	**Michal Ciesla**	*Phase behaviour of monolayers composed of flexible, trimer-like molecule*

LC Polymers, Elastomers, Colloids and Gels

P89	**Jaroslaw Wrobel**	*Chiral liquid crystal elastomer modified by nanoparticles*
P90	**Yuriy Galyametdinov**	*Organized Media Based on Lyotropic Ln-mesogens as Platforms for Delivery and Storage of Biomolecules*
P91`	**Valentina Domenici**	*New liquid crystalline elastomers investigated by 2H NMR and X-ray diffraction measurements*
P92	**Tsun-Yi Chen**	*Advantage on the polymer network on the BPIII*
P93	**Hajnalka Nadasi**	*Magneto-optical and magneto-rheological properties of an organo-ferrogel*
P94	**Miron Bugakov**	*Composites based on liquid crystalline triblock copolymers and nanocrystals CdSe/ZnS*
P95	**Nataliya Makarova**	*Comb-shaped LC Stereoregular Cyclolinear Methylsiloxane Copolymers with Chiral Mesogenic Lactate Side Groups*

Hybrid and Nanostructured LC Systems

P96	**Shirkhan Humbatov**	*Effect of ferroelectric BaTiO3 particles on threshold voltage of smectic A liquid crystal*
P97	**Olga Podyacheva**	*Synthesis and study of new composites based on PDLC and different carbon nanomaterials*
P98	**Georgi Hadjichristov**	*Light-Stimulated Electro-Optics of Azo-Doped Aerosil/7CB Nanocomposites*
P99	**Georg Mehl**	*The Design and Investigation of Chiral LC Nanoparticle Systems*
P100	**Sharmistha Ghosh**	*Study of ferroelectric nanoparticles/bent-core nematic liquid crystal blend.*
P101	**Christian Legrand**	*Harvested ferroelectric Sn2P2S6 nanoparticles for doping nematic liquid crystal*
P102	**Fedor Podgornov**	*Modification of Chiroptic Response of Ferroelectric Liquid Crystal with Localized Surface Plasmon Resonance of Gold Nanoparticles*
P103	**Fedor Podgornov**	*Rotational viscosity of ferroelectric liquid crystal/ gold nanoparticles nanodispersion*
P104	**Margarita Kurochkina**	*Buildup and quenching of the photoluminescence quantum dots CdSe/ZnS in the nematic matrix*
P105	**Vladimir Delev**	*Orientational Transitions in Liquid Crystal Nanosystems in Electric Field*
P106	**Anatoliy Kaznacheev**	*Electrooptics of Nematic Liquid Crystals Stabilized by Polymer and Physical Nets*

P107	**Liliya Dobrun**	*Optical anisotropy of lanthanide-containing liquid crystal complexes*
P108	**Liliya Dobrun**	*Dielectric properties of lanthanide-containing liquid crystal complexes*
P109	**Dmitry Shcherbinin**	*The ionic impurities in liquid crystals doped with nanoparticles*
P110	**Artur Geivandov**	*LC alignment on subwavelength metal gratings*
P111	**Maxim Shcherbina**	*Self-Assembling of Tapered Dendrons on the Basis of 2,3,4- and 3,4,5-tris(dodecyloxy)benzenesulfonic Acid*
P112	**Dmitriy Makarov**	*Oscillating Regimes of a Ferronematic Structure in Elliptically Polarized Rotating Magnetic Field*
P113	**Danil Petrov**	*First Order Freedericksz Transition in Liquid Crystal Doped with Carbon Nanotubes*
P114	**Ladislav Fekete**	*AFM studies of supramolecular self-assembly of liquid crystalline molecules*
P115	**Cristina Cirtoaje**	*Dynamic behavior of nematic liquid crystal with CoFe2O4 ferromagnetic nanoparticles insertion in magnetic fields*
P116	**Cristina Cirtoaje**	*Dynamic behaviourof nematic liquid crystals containing CdSe/ZnS quantum dots in electric field*
P117	**Cristina Cirtoaje**	*Electric Freedericksz transition in nematic liquid crystals with quantum dots*
P118	**Yana Gromova**	*New Chiral Liquid Crystalline Matrices with Silver-Nanoparticles and their Adsorption Properties*
P119	**Elisaveta Luckianova**	*Optical Propreties of Hybrid Metal-Mesogenic "Silver – Thiocholesterol" Nanosystem*
P120	**Cristina Cirtoaje**	*Dynamic behavior of nematic liquid crystals with multiwalled carbon nanotubes in electric field*
P121	**Eduardo Soto Bustamante**	*Interactions between electropolymerized methacrylic monomer and TiO2 nanoparticles*

Biological, Lyotropic and Chromonic LC systems

P122	**Andrey Sonin**	Determination of the Diffusion and Permeability Coefficients for Air in Some Synthetic Detergents by Means of the Diminishing Bubble Method
P123	**Baeckkyoung Sung**	Dynamic Interaction between Immune Cell Morphology and Motility Parameters on an Anisotropic Surface with Micro/Nano-Topography

Ferroelectric and Ferromagnetic LC Systems

P124	**Vadim Barbashov**	Low birefringent ferroelectric liquid crystals
P125	**Vitaly Panov**	Properties of novel deVries Smectic materials
P126	**Fedor Podgornov**	Low frequency complex conductivity spectroscopy of liquid crystal cells: evaluation of DC conductivity
P127	**Anatoliy Kaznacheev**	On the origin of the static hysteresis loop of helix-free ferroelectric smectic C* liquid crystal cell

Confined LC Systems and Defects

P128	**Ruibin Zhang**	Columnar Liquid Crystals in Cylindrical Confinement
P129	**Dina Shmeliova**	Optical Properties of Grandjean-Cano Wedge and restoration of Surface Anchoring Potential
P130	**Sofia Tsalikova**	Influence of AC electrical field on LC structure formed inside pores of PET films
P131	**Yoko Ishii**	Defect Control in Nematic Shells through Magnetic Fields
P132	**Oxana Prishchepa**	Orienting effect of the ammonium cationic salts on nematic LC
P133	**Mikhail Krakhalev**	Bipolar configuration with a twisted defect loop in chiral nematic droplets
P134	**Dmitry Yakovlev**	A microscopic polarization mapping system for characterization of inhomogeneous liquid crystal layers
P135	**Lubor Lejcek**	Nucleation of filaments of the TGBA phase in free-standing films
P136	**Georgi Hadjichristov**	Graphene Assisted Alignment of Nematic Liquid Crystal 5CB as Studied by Dielectric Spectroscopy
P137	**Yulay Timirov**	Helical disclination in chiral nematic liquid crystal cylindrical droplets

Hydrodynamics and Microfluidics of LC Systems

P138	**Edward Gevorkyan**	Acoustic Investigation of Orientation Dynamics of Liquid Crystals in Conical Magnetic Field
P139	**Chul Gyu Jhun**	Monodispersed Liquid Crystal Droplets for Flexible Display Applications
P140	**Serguei Yablonskii**	Acoustic Streaming in Two-Dimensional Freely Suspended Smectic Liquid Crystal Film

Applications of Liquid Crystals

P141	**Kevin Raimondeau**	Performance improvement of a low viscosity nematic liquid crystal dichroic dye mixture by addition of a chiral dopant
P142	**Young Cheol Chae**	Optically isotropic liquid crystal using Polyimide/IPS film for high flwibility
P143	**Nune Hakobyan**	Circular Dichroism Meter Based on Polarization Diffractive Waveplate
P144	**Igor Kompanets**	Suppressing the Speckle-Noise Using a Cell with the Helix-Free Ferroelectric LC
P145	**Stanislaw Urban**	Thermal, structural and electro-optical properties of new azomethine doped with TiO2 for photovoltaic application
P146	**Valeri Lapanik**	New liquid crystal materials for MM-band wave antenna device applications
P147	**Chie-Tong Kuo**	Tunable-focus Fresnel lens in liquid-crystal cell with Sagnac patterning interferometer
P148	**Ethan Jull**	Tunable, switchable liquid crystal laser filter.
P149	**Galina Zharkova**	Panoramic Sensors of Shear Stress, Temperature and Pressure on the Base of Liquid Crystals
P150	**Guram Chilaya**	Cholesteric Liquid Crystals for Holographic Applications
P151	**Alexander Konkolovich**	Spectral polarization of transmission radiation by uniaxial stretching polymer dispersed liquid crystal films with modified interphase surface anchoring
P152	**Victor Belyaev**	Liquid crystal microlenses with different boundary conditions
P153	**Wing-Kit Choi**	Fast-response VA-FFS liquid crystal mode using 3D electrode design
P154	**Dik-Lung Ma**	The development of cyclometalated iridium(III) complexes with liquid crystal ligands and their applications in luminescent sensing
P155	**Erms Pereira**	Functionalizing liquid crystals for phononic, biophotonic and multiphysics devices
P156	**Žiga Kos**	Cross-talk between topological defects in different fields revealed by nematic microfluidics

Excursions

Moscow by Night (Bus Tour around Moscow)

Monday, June 26, 20:00

This excursion is to get you acquainted with the city of Moscow and its most important and beautiful sights. Anyway you can't miss the city center - Red Square with the Lenin Mausoleum. During this excursion you will see Vasily Blazhenny Temple, Tverskaya Street, Cathedral of Christ the Saviour, Novodevichiy monastery, New Arbat, Lenin's Hills, which is considered to be the highest point of Moscow where you will enjoy a great panorama of the city. You will pass along the Kutuzov Street and visit the Victory Park with its fountains and churches.

In the evening Moscow plunges into the sea of light and fire. Show-windows are shining, restaurants and night clubs invite the visitors to have a party and the objects not so remarkable at the afternoon transform in the beams of a night illumination. The life in the city goes on. At night Moscow looks different and mysterious.

The Earth Science Museum at Moscow State University

Tuesday, June 27, 14:00-16:00 or Thursday, June 29, 14:00-16:00

The Earth Science Museum is located at 24-31 floors of the main building of Moscow State University. The participants will have an opportunity to enter the balcony to see the beautiful panoramic view of Moscow city. Museum tells about the structure and origin of the Earth, endogenous and exogenous processes. The rock formation, minerals, natural resources and evolution of life are also demonstrated in the museum.

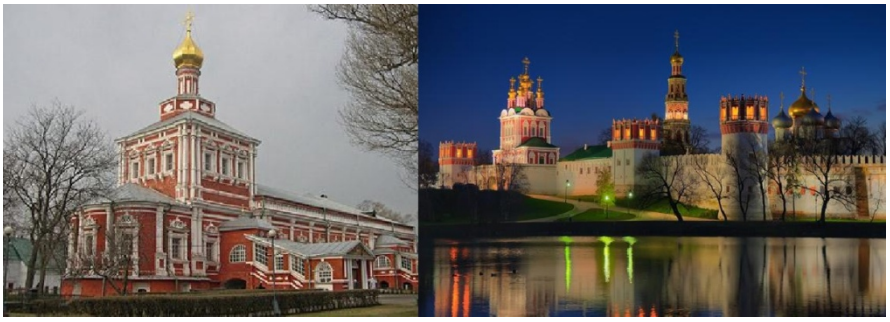
Excursion to the Kremlin with a visit to Assumption Cathedral

Wednesday, June 28, 14:00

The Kremlin is the symbol of Russia and the main tourist attraction of Moscow. Once the residence of Tsars and Patriarchs, today it is one of the biggest architectural ensembles in the world, which is included into the UNESCO list. During this excursion you will see the chambers and cathedrals inside the fortress. You will visit some of the churches in the area of Kremlin, the ancient street of Moscow - the Spasskaya street, walk by the Tsar Bell and the Tsar Cannon and see the most ancient building in Moscow - The Assumption Cathedral.

Excursion to Novodevichy Convent

Wednesday, June 28, 14:00



Excursion to one of the Moscow's most attractive monasteries. Novodevichy, or "New Maidens Convent" in English, was founded in a suburb of Moscow in 1524 to commemorate the liberation of Smolensk from the Lithuanians in 1514. The convent is rather like a miniature Kremlin by its architectural style. Many of the city's monasteries served as retirement homes for royal and noble women, who either chose or were forced to take the veil and remain in the safety of the convents for the rest of their lives. The Tsars and the supreme feudal nobility showed a great interest in the Novodevichy convent, rendering it all possible financial and legal support. The convent has also been a burial place for famous persons in Russian history.

Useful Information

Registration

Registration will start on Sunday, June 25, at 16:00.

Registration desk will also be open from Monday to Friday between 8:00 and the end of oral presentations.

Oral Presentations

Oral presentations should be prepared in the following file formats: ppt, pptx or pdf. They should be uploaded to the computer in the corresponding room before the session starts. If the presenter prefers using his/her personal computer, this is his/her personal responsibility to check that it is in full operation.

Presentation length:

Invited talk	30 minutes including questions
Standard oral	20 minutes including questions

Poster Presentations

Each poster should **not** be larger than A0 portrait (841 x 1189mm). Posters P1-P79 should be hung up on Monday morning and removed on Tuesday evening. Posters P80-P158 should be hung up on Wednesday morning and removed on Friday before lunch.

Internet

Free internet access will be available in the Conference Rooms.

Conference banquet

The conference banquet will be on Thursday evening on the board of Kolesovship that will sail along the Moskva River from 19.00 till 23.00.

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