

Programme

Professional development and career networking	Plenary talks	Student talks	Student Chapters	Hosting University	Breaks and lunches	Short Course	Poster Session
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Monday, 21 June	
Conference venue: Lomonosov Moscow State University	
7:30	Departure to the conference venue
8:30	Registration
9:00 9:30	Institute Presentation: Lomonosov Moscow State University
9:30 10:30	Plenary Lecture <i>Dr. James C. Wyant</i> OSA President 2010 and University of Arizona
10:30 10:40	Coffee-break
10:40 11:40	Plenary Lecture "Transforming Light with Metamaterials: A New Paradigm for the Science of Light" <i>Dr. Vladimir Shalaev</i> Purdue University
11:40 12:00	"Surface-plasmon relaxation dynamics in planar plasmonic crystals" <i>Dr. Tatyana Dolgova</i> MSU, Russia
12:00 12:15	"Metamaterials and electron beams" <i>Giorgio Adamo</i> University of Southampton, UK
12:15 12:30	"Nonlinear effects in negative-index optical metamaterials" <i>Maxim Shcherbakov</i> MSU, Russia
12:30 12:45	"Ultrafast microscopy of carbon nanotubes" <i>Desiré Whitmore</i> UC Irvine, USA
12:45 13:00	"Extraordinary optical transmission in metallic grating structures in one mode approximation and surface plasmon polariton excitation" <i>Viktorii Babicheva</i> MIPT, Russia
13:00 14:30	Lunch
14:30 14:45	"Optical nanofibres for interferometric sensing" <i>Konstantin Karapetyan</i> University of Bonn, Germany
14:45 15:00	"Bowtie aperture as an electric field nano-collector" <i>Mathieu Mivelle</i> Université de franche-Comté, France
15:00 15:15	"A novel technique for obtaining organic photovoltaic devices" <i>Marina Mariano Juste</i> ICFO, Spain
15:15 15:30	"Trapped-mode resonances of light diffraction by two-periodic planar structure of metal elements" <i>Kateryna Iarko</i> IRA NASU, Ukraine,
15:30 15:45	"Dyakonov surface waves in the Otto-Kretschmann configuration" <i>Osamu Takayama</i> ICFO, Spain
15:45 16:00	"Optical testing of high-aperture convex aspherical mirrors using of a raster wavefront analyzer" <i>Vladislav Batshev</i> BMSTU, Russia
16:00 16:15	Coffee-break

16:15 16:30	"Gas detection with a QCL" <i>Sabine Riedi</i> ETH Zurich, Switzerland
16:30 16:45	"Low-frequency excitation spectrum of crystal RbDy(MoO ₄) ₂ " <i>Sergii Poperezhai</i> ILTPE NASU, Ukraine
16:45 17:00	"Catadioptric interferometer for testing form of flat mirrors" <i>Alexander Kapustin</i> BMSTU, Russia
17:00 18:00	Lab tours at MSU
18:00 19:00	Welcome Reception

Tuesday, 22 June	
Conference venue: Bauman Moscow State Technical University	
9:00	Departure to the conference venue
10:00 10:30	Institute Presentation: Bauman Moscow State Technical University
10:30 10:45	"Compression of Few-Cycle Pulses in Dispersive Medium" <i>Olga Paseka</i> MSU, Russia
10:45 11:00	"New perspectives and techniques for optimization of laser gain media" <i>Mikayel Arzakantsyan</i> Ecole Polytechnique, Russian-Armenian University, Yerevan State University, France
10:45 11:00	"Filamentation of laser pulses with different wavelengths in air" <i>Vladimir Fedorov</i> MSU, Russia
11:00 11:15	"A new objective for laser interferometer " <i>Katerina Dudenkova</i> BMSTU, Russia
11:00 11:15	"Current and Magneto induced effects in second harmonic generation on Co/Si interface" <i>Sergey Mitryukovskiy</i> MSU, Russia
11:15 11:30	"Research of photochromic effect in mixed and two-layer AgCl-CuCl films" <i>Yana Volvach</i> V. Karazin Kharkov National University Ukraine
11:15 11:30	"Quantum engineering dealing with photon losses: experimental approach" <i>Marcin Kacprowicz</i> Nicolaus Copernicus University, Poland
11:30 11:45	"Theoretical studies of low dimensional quantum systems" <i>Thomás Fogarty</i> University College Cork, Ireland
11:30 11:45	"Angular distribution of terahertz emission from a plasma channel of femtosecond filament" <i>Vera Andreeva</i> MSU, Russia
11:45 12:00	"Polarization Cartography of Biotissues" <i>Roman Tsykalyak</i> Chernivtsi National University UKRAINE
11:45 12:00	Coffee break
12:00 14:00	Short course on laser beam shaping <i>Dr Carlos Lopez-Mariscal</i> UC Santa Cruz
12:00 14:00	"Women in physics: a life choice or a life chance?" <i>Dr. Irina Sorokina</i> NTNU, Norway Women and Minorities OSA
14:00 15:30	Lunch
15:30 16:00	Lab-tours at BMSTU
16:00 16:15	"Investigations of energy transfer processes in dielectrics at extreme laser intensities ~10 ¹³ W/cm ² by nonlinear pump-probe technique based on THG" <i>Fedor Potemkin</i> MSU, Russia
16:15 16:30	"On the Dynamics of Optical Rogue Wave Formation" <i>Benjamin Wetzel</i> Université de Franche-Comté/FEMTO-ST, France
16:30 16:45	"Speckle patterns in the second harmonic generation from a transparent crystal" <i>Can Yao</i> ICFO, Spain

16:45 17:00	"Filament induced polarization variation of the probe beam" <i>Nikolay Panov</i> MSU, Russia
17:00 18:00	Poster session + coffee break

	Wednesday, 23 June
	Conference venue : Lomonosov Moscow State University
10:00 11:00	Plenary lecture "From University to Industry" <i>Dr. Torben Jacobson</i> Ibsen Photonics President
11:00 11:30	Plenary Lecture "OSA Student Members: <i>The Next Generation of Optics Leaders</i> " <i>April Zack</i> OSA, Washington DC
11:30 11:50	Optics & Photonics Focus <i>Armand Niederberger</i> ICFO/Optics&Photonics Focus
11:50 12:00	Coffee-break
12:00 - 12:15	"Influence of Quantum Dot Nuclear Spins on Coherent Population Trapping : Dragging of Dark Resonances" <i>Mena Issler</i> ETH Zürich, Switzerland
12:15 12:30	"Impact of Higher-order aberrations in vision" <i>Elie de Lestrangé</i> NUIG, Galway, Ireland
12:30 12:45	"A Hartmann method for measuring surface shape of the cornea of the human eye" <i>Anastasia Vvedenskaya</i> School 7, Russia
12:45 13:00	"Raman Analysis of DNA Damage to Live Horse Sperm Cells during Cryopreservation " <i>Ruby Raheem</i> University of Edinburgh, UK
13:00 13:15	"Metallic Annular Aperture Arrays filled by nonlinear material for Second Harmonic Generation" <i>Elsie Barakat</i> FEMTO-ST Institut, France
13:15 13:30	"Spectrally flattened, high output power erbium amplified spontaneous emission (ASE) fiber source" <i>Valentina Egoiaeva</i> BMSTU, Russia
13:30 13:45	"Integrated Optic Glass Microcantilevers with Bragg Grating Interrogation" <i>Lewis Carpenter</i> University of Southampton, UK
13:45 14:00	"Experimental investigations of raster technique opportunities for studying dynamic characteristics of wind waves" <i>Stanislav Leonov</i> BMSTU, Russia
14:00 15:30	Lunch
15:30 15:45	"Specifics of second and third harmonic generation using an all-fiber Q-switched ytterbium fiber laser" <i>Andrey Denisov</i> NSU/IA&E Novosibirsk, Russia
15:45 16:00	"Non-contact methods for optical testing of large convex aspheric mirrors" <i>Vladislav Druzhin</i> BMSTU, Russia

16:00 16:15	"Combinatorial Pulsed Laser Deposition: Making lasers with lasers" <i>Katherine Sloyan</i> University of Southampton, UK
16:15 16:30	"Human Eye Modeling" <i>Alexey Tsapenko</i> BMSTU, Russia
16:30 16:45	"MOEMS in Russia: developing future" <i>Alexander Polynov</i> BMSTU, Russia
16:45 17:00	Numerical simulation of sphero-chromatic aberration measurement in optical system <i>Malwina Lewandowska-Soboń</i> Wroclaw University of Technology, Poland
17:00	Competition on most creative student chapter presentation

	Thursday, 24 June
	Conference venue: Bauman Moscow State Technical University
9:00	Departure to the conference venue
10:00 12:00	"Making the most of your presentation" <i>Dr. Jean-luc Doumount</i> Principae
12:00 12:15	Coffee-break
12:15 13:00	"Manuscript preparation and submission" <i>Dr. Rachel Won</i> Nature Photonics Editor
13:00 14:00	<i>Dmitriy Rogozhin</i> Eurasian patent organization (EAPO), Formal Examination Department Director, Russia
14:00 15:30	Lunch
15:30 16:15	"Career as journal editor" <i>Dr. Rachel Won</i> Nature Photonics Editor
16:15 17:00	"Fluorescent Nanoscope – experience of transferring science to business" <i>Dmitriy Klimov</i> Stereonic LLC, President
17:00 17:15	EPS: the Young Minds Project <i>Armand Niederberger</i> ICFO/European Physical Society
17:15 17:30	Coffee-break
17:30 18:45	"Teaching Optics in North Uganda. The experience of Naples Student Chapter" <i>Lucio Rossi</i> University of Napoli, Italy
18:45 19:15	Round table: Student Chapters Activities
19:15 19:30	Discussion: The next IONS Conference
20:00 22:00	Social dinner

Poster Session

#	First Name	Last name	Poster title	University	Country
1.01	Gregory	Golovin	Secondary Processes Induced by Femtosecond Laser Plasma X-Ray and Corpuscular Emission in External Target	MSU	Russia
1.02	Fiona	Kenny	Manipulation of the point-spread-function of a high numerical aperture lens by tailoring the input polarisation state.	National University of Ireland, Galway	Ireland
1.03	Mariya	Sherman	Macro- and microscopic properties of multidomain nematic liquid crystals with random planar orientation	Saratov State University	Russia
1.04	Cinia	Schriber	Characterization and damage testing of SESAMs	ETH	Switzerland
1.05	Sergey	Shamaev	Slim LED-based DLP projection TV	BMSTU	Russia
1.06	Rocio	Borrego Varillas	Post-compression enhancement by controlling the wavefront	Universidad de Salamanca	Spain
1.07	Elena	Lysenkova	Interferometric method for measuring geometric parameters of convex six-meter mirror M2 for European telescope E-ELT	BMSTU	Russia
1.08	Maria	Romanova	Illumination and Stray Light Analysis for Infrared Thermal Imaging Telescope	BMSTU	Russia
1.09	Mikhail	Bakhadov	Device for laser sea detection and ranging.	BMSTU	Russia
1.1	Eugenia	Usenko	Mg ²⁺ and Ni ²⁺ ion abnormal effects on parameters of DNA helix-coil transition in Tris buffer	ILTPE, NASU	Ukraine
1.11	Agnieszka	Jóźwik	Possibilities of measurements of intraocular lens performance in the artificial eye model	Wroclaw University of Technology	Poland
1.12	Elena	Volkova	Luminescence of the CdS nanoparticles	Saratov State University	Russia
1.13	Gillian Emma	Madden	"Ultrafast Carrier Dynamics of an InAs/GaAs Semiconductor Quantum Dot Absorber"	Tyndall National Institute	Ireland
1.14	Yinon	Katz	A Fiber-Optic Interferometric Sensor Array	Tel Aviv University	Israel
1.15	Bogdan	Sokolenko	Experimental observation of vortex precession in a rotating in an a SiO ₂ crystal	Taurida National V.I.Vernadsky University	Ukraine
1.16	Nataliya	Shostka	Optical bottle beams in incoherent light: generation and diagnostic of their properties	Taurida National V. Vernadsky university	Ukraine
1.17	Maxim	Ivanov	Algebra of interaction of polarized vortexes and Bessel-Gauss beam.	National Taurida V. Vernadsky University	Ukraine
1.18	Oleg	Moiseev	The computer program <<RILIEF>>	BMSTU	Russia
1.19	Elena	Malinovskaya	Raster wavefront analyzer for metrology of large convex aspherical mirrors	BMSTU	Russia
1.2	Yanina	Shevchenko	Tilted Fiber Bragg Surface Plasmon Resonance Sensor	Carleton University	Canada
1.21	Vladimir	Kuzmin	Program for computer-aided calculation of null compensators	BMSTU	Russia
1.22	Alexandr	Baryshev	Mathematical modeling of optical antennas, Discrete Sources Method, Numerical Methods	MSU	Russia
1.23	Mariya	Korotaeva	Optical methods in quantitative assessment of quality	BMSTU	Россия
1.24	Dmitry	Dvoretzkiy	High power CW Bi-doped fiber lasers	BMSTU	Russia
1.25	Elena	Ulchenko	Compact zoom lens with high magnification	BMSTU	Russia