🗶 ЭКСПОЦЕНТР 🔺 ЛАЗЕРНАЯ АССОЦИАЦИЯ



ФОТОНИКА МИР ЛАЗЕРОВ И ОПТИКИ 28-31 марта 2023 Россия, Москва, ЦВК «ЭКСПОЦЕНТР» WWW.photonics-expo.ru

17-я международная специализированная выставка лазерной, оптической и оптоэлектронной техники

Реклама 12+

EVENT SCHEDULE*

17th edition of the International Exhibition PHOTONICS. WORLD OF LASERS AND OPTICS 2023

EXPOCENTRE Fairgrounds, Moscow, Russia

	28 March (Tuesday)		
1.	10.30-13.00	Joint meeting of the Council of Head Technologists, the	
	Southern Hall,	Technology Platform and the Laser Association on Human	
	Forum Pavilion	Resources for the Photonics Industry	
		Organised by the Laser Association, EXPOCENTRE AO	
2.	11.00–13.00 Western Hall,	Investment Session on Key Photonics Technology Projects	
	Forum Pavilion	Organised by the Perm Photonics Centre of Competence, EXPOCENTRE AO	
3.	13.00	Official opening ceremony of Photonics. World of Lasers	
		and Optics 2023	
4.	14.00-16.30	Meeting of the Technical Committee on Standartization	
	Southern Hall,	'Optics and Photonics' (TC296)	
	Forum Pavilion		
		Organised by the Laser Association, EXPOCENTRE AO	
5.	14.00-17.00	Panel on Opportunities for Chinese-Russian Cooperation in	
	Orange Hall,	Photonics	
	Forum Pavilion		
		 Opportunities and prospects for the Chinese-Russian scientific and technical cooperation 2023. State support for joint projects 	
		 Experience gained from organising cooperation between member organisations of the China Optical Valley Laser Association and the CIS Laser Association, recommendations for the organisers of new projects 	
		 Possible joint infrastructure projects in the field of photonics: congresses trade shows the Russian-Chinese scientific journal 	

		unified standard on photonics technical terms
		Organised by the Laser Association, EXPOCENTRE AO
6.	14.00–16.30 Western Hall, Forum Pavilion	Conferences of the 11 th Congress of the Photonics Technology
		Platform
		Semiconductor photonics. Nanophotonics
		Moderated by G.S. Sokolovsky, Chief Researcher at Ioffe Physical- Technical Institute
		Topics:
		 Optoelectronic terahertz emitters for ultrafast spectroscopy and imaging systems D.S. Ponomarev, Institute for Ultra-High Frequency Semiconductor Electronics K.I. Zaitsev, Prokhorov General Physics Institute
		 Russian developments of semiconductor lasers in the 800-2000 nm wavelength range S.O. Slipchenko, Ioffe Physical-Technical Institute
		 High-power laser diodes and laser beacons (λ = 750-1000 nm) based on nanoheterostructures of different material systems N.V. Gultikov, Stelmakh Polus Research Institute
		 Quantum cascade lasers and mid-IR detectors V.V. Dyudelev, Ioffe Physical-Technical Institute
		 Promising laser and optoelectronic components and their application S.N. Sokolov, the Inject Research and Production Enterprise
		 Discussion of the activities and current challenges of the WG8 G.S. Sokolovsky, Ioffe Physical-Technical Institute
		Organised by the Laser Association, EXPOCENTRE AO
7. 14.00–16.30 Marble Hall,	14.00–16.30 Marble Hall,	Conferences of the 11 th Congress of the Photonics Technology Platform
	Forum Pavilion	Optical elements and components
		Moderated by L.N. Arkhipova, Head Optician at Vavilov State Optical Institute
		Topics:
		- A structure, physic-chemical and laser characteristics of
		yttrium-aluminium garnet transparent optical ceramics doped with rare-earth ions
		P.A. Ryabochkina, Ogarev Mordovia State University, Saransk A.Yu. Kanaev, the Raduga State Laser Range, Vladimir E.A. Lomonova, Prokhorov General Physics Institute, Moscow
		 Production of computer-synthesised holograms for the control of aspherical optical components at the Institute of Automation and Electrometry of the Siberian Branch of the Russian Academy of Sciences

		Moderated by Yu.N. Kulchin, Academician, Chair at the Far Eastern Branch of the Russian Academy of Sciences Topics: - Agrobiophotonics – development prospects E V. Zherayleya, EEKO Group
- ~ •	Southern Hall, Forum Pavilion	Platform Photonics in agriculture and environmental management
10	13 00-16 00	Organised by the Laser Association, EXPOCENTRE AO
		 Petersburg Electrotechnical University 'LETI', St. Petersburg Photonics in China Xiao Zhu, Professor, Head at the National Engineering Research Center for Laser Processing, Huazhong University, Wuhan, China
		 Holographic technology: yesterday, today, tomorrow V.Yu. Venediktov, PhD in Physics and Mathematics, Professor, St.
		 Photo theranostics for tumour diseases A.A. Shiryaev, Institute of Cluster Oncology of Sechenov University,
		 Topics: The 2022 Nobel Prize in Physics. Quantum physics from puzzle to technology A.K. Fedorov, PhD in Physics and Mathematics, Professor, the Russian Ouantum Center, Moscow
9.	10.00–13.00 Southern Hall, Forum Pavilion	Plenary Session of the 11 th the Photonics Technology Platform
		29 March (Wednesday)
	Southern Hall, Forum Pavilion	Organised by the Laser Association, EXPOCENTRE AO
8.	17.00-19.00	Assembly of the Laser Association
		Organised by the Laser Association, EXPOCENTRE AO
		 - «Generation efficiency of composite active elements based on Russian Nd:YAG ceramics Ya.V. Ulyanov, the Raduga State Laser Range, Vladimir
		diffraction gratings by using a pendulum-type dividing machine A.N. Melnikov, State Institute of Applied Optics, Kazan
		 glass using femtosecond laser radiation I.P. Tarasov, LLS, ITMO University, St. Petersburg Improvement of the method of shaping non-classical rifled
		 V.P. Korolkov, Institute of Automation and Electrometry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk Recording ontical wavaguidas in photo thermo refractive

	_	Laser and spectral technologies to improve agricultural production efficiency Ya.P. Lobachevsky, the Department of Agricultural Sciences of the Russian Academy of Sciences, the Federal Scientific Agroengineering Center VIM, Moscow
	_	Agrobiophotonics: development trends Yu.N. Kulchina, Institute of Automation and Control Processes of the Far Eastern Branch of the Russian Academy of Sciences, Vladivostok
	_	Development and application of photoconversion fluoropolymer films for high latitude greenhouses S.V. Gudkov, the Biophotonics Center, Prokhorov General Physics Institute, Moscow
	_	Prospects for the use of photonics in potato farming S.V. Zhevora, the Russian Potato Research Centre
	_	Light-transforming films in aerohydroponic potato growing facilities V.I. Starovoytov, the Russian Potato Research Centre
	_	Plants. Light. Agrochemistry N.V. Smirnova, Institute of Soil Science and Agrochemistry of the Siberian Branch of the Russian Academy of Sciences
	_	Effect of continuous LED lighting in low-energy monochromatic photon flux modes at 390, 440, 525, 660 and 730 nm on germination of beet, ramtil, fescue, soybean and wheat seeds V.N. Zelenkov, the Russian Research Institute of Vegetable Production – a branch of the Federal Research Centre of Vegetable Production and the Russian Research Institute of Medicinal and Aromatic Plants
	_	Effect of subdoses of UV-B radiation on the productivity of spring wheat (Triticum Aestivum L.) E.A. Sosnin, Institute of High Current Electronics of the Siberian Branch of the Russian Academy of Sciences, Tomsk
	_	Light as a key to business success in agriculture: practical and economic aspects O.Yu. Mironova, Lomonosov Moscow State University, Moscow
	_	Challenges and solutions for LED lighting in greenhouses and city farms Yu.V. Trofimov, Center of LED and Optoelectronic Technologies of NAS Belarus
	_	Effect of optical radiation on reproductive products of fish and farm animals V.Yu. Plavsky, Stepanov Institute of Physics of NAS Belarus, Minsk
	_	Development of new methods and innovative equipment for solving scientific and applied problems of the agrobiological sector based on photo- and optoelectronic systems E.V. Kozeev, the Siberian Federal Research Centre of Agro- BioTechnologies of the Russian Academy of Sciences
	_	Spectral optics for agriculture and foodstuffs. Affordable

		solutions V.O. Vasilyeva, LPS, St. Petersburg
		 A mobile software and hardware system for rational vertical cultivation K.V. Kovalevsky, Innofarm-DV
		 Using mycelium of higher mushrooms for engineering applications I.E. Kuznetsova, Kotelnikov Institute of Radioengineering and Electronics, Moscow
		 Control platform for LED luminaire emission spectrum R.V. Rybakov, Advanced Grower Systems
		Organised by the Laser Association, EXPOCENTRE AO
11.	13.00–16.00 Orange Hall, Forum Pavilion	Working meeting of coordinators of Russian technology platforms
		Organised by the Laser Association, EXPOCENTRE AO
12.	13.00–16.00 Western Hall,	Conferences of the 11 th Congress of the Photonics Technology Platform
	Forum Pavilion	Joint conference on fibre optic cables and fibre optic components, and optical sensorics
		Moderated by S.L. Semyonov, Head at the Fiber Optics Research Center of the Russian Academy of Sciences – Prokhorov General Physics Institute, A.V. Zarenbin, FORC-Photonics
		Topics:
		 A current status and prospects of Russia's first plant for production of telecom optical fibres D.A. Tanyakin, Optic Fiber Systems, Saransk
		 Specialised optical fibres, fibre components and fibre handling equipment available in the sanctioned environment V.B. Romashova, LLS, St. Petersburg
		 Production of fibre optic components and special optical fibres at the Technopark-Mordovia, results and the development plan Yu.V. Dolgov, Technopark-Mordovia, Saransk
		 Development and production of specialised optical fibres I.S. Azanova, Perm Scientific and Industrial Instrument Making Company, Perm
		 Specialised optical fibre at the Fiber Optics Research Center of the Russian Academy of Sciences and Devyatykh Institute of Chemistry of High-Purity Substances of the Russian Academy of Sciences
		S.L. Semyonov, the Fiber Optics Research Center of the Russian Academy of Sciences, Moscow
		 Chinese-made equipment for shearing and welding of standard fibres with retained polarisation and increased sheath diameter

		R.R. Kashina, LLS, St. Petersburg and Shanghai Shinho Fiber Communication, China
		 Development of Expended Beam multi-port connectors and power optic connectors at OPTEL P.V. Bazakutsa, OPTEL, Moscow
		 Quartz low-mode microstructured optical fibres with induced chirality G.A. Pchyolkin, Vavilov State Optical Institute
		 Development and implementation of an innovative method for safety control and diagnostics of nuclear reactor cores based on new Russian fibre-optic technologies O.V. Butov, Kotelnikov Institute of Radio-engineering and Electronics, Moscow
		 Prospects for the use of fiber Bragg grating arrays in special type optical light guides D.V. Ryakhovsky, the Fryazino Branch of Kotelnikov Institute of Radio-engineering and Electronics, Fryazino
		 A component base and turnkey solutions for fibre sensor systems M.D. Komissarov, LLS
		 NordLase – Russian development of lasers and optoelectronic devices for sensorics and ranging D. Sachenko, LLS
		Organised by the Laser Association, EXPOCENTRE AO
13.	13.00–16.00 Marble Hall,	Conferences of the 11 th Congress of the Photonics Technology Platform
13.	13.00–16.00 Marble Hall, Forum Pavilion	Conferences of the 11 th Congress of the Photonics Technology Platform Fibre optic cables and fibre optic components
13.	13.00–16.00 Marble Hall, Forum Pavilion	 Conferences of the 11th Congress of the Photonics Technology Platform Fibre optic cables and fibre optic components Moderated by V.E. Pozhar, Department Head at the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences
13.	13.00–16.00 Marble Hall, Forum Pavilion	 Conferences of the 11th Congress of the Photonics Technology Platform Fibre optic cables and fibre optic components Moderated by V.E. Pozhar, Department Head at the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences Topics:
13.	13.00–16.00 Marble Hall, Forum Pavilion	 Conferences of the 11th Congress of the Photonics Technology Platform Fibre optic cables and fibre optic components Moderated by V.E. Pozhar, Department Head at the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences Topics: Hyperspectral video cameras based on acousto-optical filters A.S. Machikhin, V.E. Pozhar, V.I. Batshev, A.B. Kozlov, I.A. Balandin, M.O. Sharikova, the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences
13.	13.00–16.00 Marble Hall, Forum Pavilion	 Conferences of the 11th Congress of the Photonics Technology Platform Fibre optic cables and fibre optic components Moderated by V.E. Pozhar, Department Head at the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences Topics: Hyperspectral video cameras based on acousto-optical filters A.S. Machikhin, V.E. Pozhar, V.I. Batshev, A.B. Kozlov, I.A. Balandin, M.O. Sharikova, the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences Multispectral video camera for snapshots B.I. Batshev, A.S. Machikhin, A.V. Kryukov, I.A. Balandin, the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences
13.	13.00–16.00 Marble Hall, Forum Pavilion	 Conferences of the 11th Congress of the Photonics Technology Platform Fibre optic cables and fibre optic components Moderated by V.E. Pozhar, Department Head at the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences Topics: Hyperspectral video cameras based on acousto-optical filters A.S. Machikhin, V.E. Pozhar, V.I. Batshev, A.B. Kozlov, I.A. Balandin, M.O. Sharikova, the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences Multispectral video camera for snapshots B.I. Batshev, A.S. Machikhin, A.V. Kryukov, I.A. Balandin, the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences Advanced X-ray optical methods for researching promising crystalline materials Ya.A. Eliovich, A.I. Protsenko, V.I. Akkuratov, A.V. Targonsky, A.E. Blagov, Yu.V. Pisarevsky, M.V. Kovalchuk, the Federal Research Centre of Crystallography and Photonics of the Russian Academy of Sciences

		I.Yu. Eremchev, I.T. Mynzhasarov, A.V. Naumov, Institute of Spectroscopy of the Russian Academy of Sciences, the Samara Branch of Lebedev Physical Institute of the Russian Academy of Sciences
		 Active acoustic wave energy output from a laser Q-switch V.Ya. Molchanov, K.B. Yushkov, A.N. Darinsky, the Acousto- Optics Research and Education Centre at the University of Science and Technology
		 Non-linear optical laser power limiter for passive protection of multi-wavelength lidar detection systems and CCD and CMOS matrices of photo and video devices M.S. Savelyev, P.N. Vasilevsky, A.Yu. Gerasimenko, Moscow Institute of Electronic Technology
		 PMT-MCP photon counters with high peak/length ratio G.V. Fedotova, N.A. Belik, Baspik, Vladikavkaz
		 Video recording optical module for ophthalmic stereomicroscope
		A.S. Veselov, A.E. Gavlina, the Research and Technological Centre of Unique Instrumentation of the Russian Academy of Sciences
		Organised by the Laser Association, EXPOCENTRE AO
14.	15.00–18.00 Press Hall, Congress Centre	Meeting of the Working Group of the Scientific and Technical Council of the Military-industrial Complex
	LIMITED	Organised by Perm Scientific and Production Company PAO, EXPOCENTRE AO
15.	16.00–19.00 Southern Hall	Conferences of the 11 th Congress of the Photonics Technology
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	Forum Pavilion	Laser macromachining of industrial materials and additive technologies
	Forum Pavilion	Laser macromachining of industrial materials and additive technologies Moderated by G.A. Turichin, Research Supervisor at the Shipbuilding & Shiprepair Technology Centre
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	Forum Pavilion	 Laser macromachining of industrial materials and additive technologies Moderated by G.A. Turichin, Research Supervisor at the Shipbuilding & Shiprepair Technology Centre Topics: Direct laser growing technology: basic principles, ILIST series process units, functional characteristics of materials and workpieces, examples of industrial applications G.A. Turichin, State Marine Technical University, St. Petersburg
	Forum Pavilion	 Laser macromachining of industrial materials and additive technologies Moderated by G.A. Turichin, Research Supervisor at the Shipbuilding & Shiprepair Technology Centre Topics: Direct laser growing technology: basic principles, ILIST series process units, functional characteristics of materials and workpieces, examples of industrial applications G.A. Turichin, State Marine Technical University, St. Petersburg Production of large-scale, high-precision steel structures using laser technology – from 3D modelling to inspection assembly and testing A.G. Sukhov, the Regional Center of Laser Technologies, Yekaterinburg
	Forum Pavilion	 Laser macromachining of industrial materials and additive technologies Moderated by G.A. Turichin, Research Supervisor at the Shipbuilding & Shiprepair Technology Centre Topics: Direct laser growing technology: basic principles, ILIST series process units, functional characteristics of materials and workpieces, examples of industrial applications G.A. Turichin, State Marine Technical University, St. Petersburg Production of large-scale, high-precision steel structures using laser technology – from 3D modelling to inspection assembly and testing A.G. Sukhov, the Regional Center of Laser Technologies, Yekaterinburg Hybrid laser arc welding is a breakthrough technology for Russian shipbuilding V.V. Osipov, State Marine Technical University, St. Petersburg

		K.M. Zhilin, LLS, St. Petersburg
		 Measurements of the energy characteristics of reflected radiation during laser processing operations O.A. Kryuchina, IRE-Polus, Fryazino
		 Development of laser technology in Khristianovich Institute of Theoretical and Applied Mechanics of the Siberian Branch of the Russian Academy of Sciences A.G. Malikov, Khristianovich Institute of Theoretical and Applied Mechanics of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk
		 Russian selective laser fusion equipment: current status and development prospects A.A. Kim, Laser Systems, St. Petersburg
		 Experience of developing technology for Russian 5-axis laser cutting, welding and surfacing equipment M.N. Milenkiy, Lasery i Apparatura TM, Moscow
		Organised by the Laser Association, EXPOCENTRE AO
16.	16.00–19.00 Orange Hall,	Conferences of the 11 th Congress of the Photonics Technology Platform
	Forum Pavilion	Photonics in medicine and life sciences
		Moderated by A.V. Samorodov, Head of the Department of Biomedical Engineering Systems at Bauman Moscow State Technical University
		Topics:
		 Endovenous laser coagulation of varicose veins: the evolution continues V.P. Minaev, IRE-Polus V.Yu. Bogachev, Pirogov Russian National Research Medical University
		K.A. Kaperiz, the National Medical Research Center for Therapy and Preventive Medicine
		 Current state of laser technology in urology A.Z. Vinarov, Sechenov University
		 Reduced glutathione nanosensor based on surface-enhanced Raman scattering of light
		A.A. Yushina, Russian Research Institute for Optical and Physical Measurements
		 Hardware-software platform for screening tests based on spectral analysis of exhaled air using laser optical-acoustic spectroscopy and machine learning Yu V. Kisteney, Tomsk State University, Tomsk
		 Applications of infrared spectroscopy, including laser spectroscopy for environmental and medical applications I.L. Fufurin, Bauman Moscow State Technical University, Moscow
		Organised by the Laser Association, EXPOCENTRE AO
17.	16.30–19.00 Western Hall,	Panel on Photonics in Moscow

	Forum Pavilion	Organised by the Laser Association, EXPOCENTRE AO	
18.	16.00–19.00 Marble Hall,	Conferences of the 11 th Congress of the Photonics Technology Platform	
	Forum Pavilion	Photonics test and measurement and diagnostic technology for the process industry	
		Moderated by S.A. Babin, Corresponding Member of the Russian Academy of Sciences, Director at Institute of Automation and Electrometry of the Siberian Branch of the Russian Academy of Sciences	
		Topics:	
		 Interferometric methods for the inspection of precision machining of materials V.P. Korolkov, E.V. Sysoev, Institute of Automation and Electrometry of the Siberian Branch of the Russian Academy of Sciences, Technological Design Institute of Scientific Instrument Engineering of the Siberian Branch of the Russian Academy of Sciences 	
		 ECB for solid-state nanophotonics developed by Rzhanov Institute of Semiconductor Physics of the Siberian Branch of the Russian Academy of Sciences V.A. Gaysler, K.S. Zhuravlev, V.V. Preobrazhensky, I.I. Ryabtsev, G.Yu. Sidorov, M.V. Yakushin, A.V. Latyshev, Rzhanov Institute of Semiconductor Physics of the Siberian Branch of the Russian Academy of Sciences 	
		 The problem of high-precision geometric calibration of scanning devices for multi-channel selective laser fusion machines A.V. Savin, Laser Systems, Voenmeh Baltic State Technical University 	
		 Optical spectrometers for monitoring the chemical composition of substances and materials V.A. Labusov, V.G. Garanin, Institute of Automation and Electrometry of the Siberian Branch of the Russian Academy of Sciences, VMK-Optoelektronika 	
		 Digital laser. Generation of structured beams, including vortex beams V.V. Dudorov, E.V. Adamov, V.P. Aksenov, E.A. Bogach, V.V. Kolosov, M.E. Levitskiy, Zuev Institute of Atmospheric Optics of the Siberian Branch of the Russian Academy of Sciences 	
		 Practical experience of developing and implementing an intellectual property management system based on the Competence Center of the National Technologic Initiative in Photonics and its consortium member organisations A.V. Nikolaev, the Competence Center of the National Technologic Initiative in Photonics, Perm National Research Polytechnic University 	
		 Current scientific solutions for semi-natural modelling and prototyping of innovative metrology equipment for quality control of optical surfaces based on the analysis of scattered laser emission characteristics 	

		D.G. Denisov, Bauman Moscow State Technical University
		 - 1.3-1.5 μm signal input technology for low-loss measurements during series production of PICs D.D. Levin, the Zelenograd Nanotechnology Center
		Organised by the Laser Association, EXPOCENTRE AO
		30 March (Thursday)
10	10 00_13 00	Conferences of the 11 th Congress of the Photonics Technology
17.	Southern Hall,	Platform
	Forum Pavilion	Quantum technologies
		Moderated by V.I. Belotelov, Deputy Research Director at the International Centre for Quantum Optics and Quantum Technologies
		Topics:
		 Solid-state femtosecond laser systems with multi-diode pumping: current status and future developments N.S. Petrovich, FemtoVision
		 Quantum photonic integrated circuits G.N. Goltsman, Moscow Pedagogical State University
		 Fiber optic quantum sensing in thermometry and thermogenetics A. Fedotov, Russian Quantum Center
		 Orbital angular momentum beams for atmospheric quantum communication channels V. Petrov, St. Petersburg State University, ITMO University
		 Passive preparation of quantum states for QSS
		 A new type of photomultipliers Yu. Pozdnyakov, Dephan
		 Experimental analysis of QRate and ID Quantique single photon detectors S. Mosentsov, LLS
		Organised by the Laser Association, EXPOCENTRE AO
20.	10.00–13.00 Orange Hall,	Conferences of the 11 th Congress of the Photonics Technology Platform
	Forum Pavilion	Metrology support for photonics
		Moderated by V.N. Krutikov, Research Supervisor at Russian Research Institute for Optical and Physical Measurements
		Topics:
		 Current status of metrological support for photonics technologies and products (Results of activities in 2022, plans for 2023) I.S. Filimonov, Russian Research Institute for Optical and Physical Measurements, Moscow

		_	Improvement of GET 196 and metrological support for Raman spectroscopy M.M. Chugunova, Russian Research Institute for Optical and Physical Measurements, Moscow
		_	Measurement of optical density of transmittance in the narrow band on GET 206-2016 A.V. Koldashov, Russian Research Institute for Optical and Physical Measurements, Moscow
		_	Use of optical measurement attenuators to ensure unity of measurement of laser beam energy characteristics A.I. Kolpakov, Russian Research Institute for Optical and Physical Measurements, Moscow
		_	Current state and prospects of metrological support for measurements of femtosecond range optical pulse timing M.V. Kanzyuba, Russian Research Institute for Optical and Physical Measurements, Moscow
		_	Metrological support for measurements of surface-enhanced Raman scattering spectra M.K. Alenichev, Russian Research Institute for Optical and Physical Measurements, Moscow
		_	Improvement of the state primary standard for the unit of refractive index GET 138 G.N. Vishnyakov, Russian Research Institute for Optical and Physical Measurements, Moscow
		_	Installation for measuring the modulation transfer coefficient of optical systems A.A. Golopolosov, Russian Research Institute for Optical and Physical Measurements, Moscow
		_	Calculation of the synchrotron channel optical system F.Yu. Vinogradov, Russian Research Institute for Optical and Physical Measurements, Moscow
		_	Test bench for the examination of absorbing optical coatings for radiation resistance to high-intensity laser radiation K.V. Zayats, Russian Research Institute for Optical and Physical Measurements, Moscow
		Organ	ised by the Laser Association, EXPOCENTRE AO
21.	10.00–13.00 Western Hall,	Confe Platfo	erences of the 11 th Congress of the Photonics Technology orm
	Forum Pavilion	Photo	onics in navigation and geodesy
		Mode Produc	rated by A.L. Sokolov, Chief Researcher at the Scientific and ction Corporation 'Systems of Precision Instrument Making'
		Topics	6:
		_	The role of quantum-optical Tochka stations in the ephemeris- time support of GLONASS V.D. Shargorodsky, I. Ignatenko, Russian Research Institute for Physical-Engineering and Radiotechnical Metrology

		 A retroreflector system for high-orbit GLONASS space vehicles A. Fokina, the Scientific and Production Corporation 'Systems of Precision Instrument Making' Design results of a space laser communication system V.V. Murashkin, the Scientific and Production Corporation 'Systems of Precision Instrument Making'
		 Creating a guidance system for quantum key transmission equipment S.A. Petushkov, the Scientific and Production Corporation 'Systems of Precision Instrument Making'
		 Improving the energy and accuracy characteristics of a quantum optical system V.D. Nenadovich, the Scientific and Production Corporation 'Systems of Precision Instrument Making'
		 Design and research of a fibre optic gyroscope layout using SMF fibre T.I. Malygina, Russian State Hydrometeorological University
		Organised by the Laser Association, EXPOCENTRE AO
22.	10.00–13.00 Marble Hall,	Conferences of the 11 th Congress of the Photonics Technology Platform
	Forum Pavilion	Radiophotonics
		Moderated by V.V. Valuev, Chief Researcher at RC Module
		 Development of a transceiver module based on a vertically emitting laser V.V. Scherbakov, Center VOSPI
		 Vertical-emitting lasers in the 1.55 μm spectral region K O. Vereneev. OKD. Planete
		 Photonic integrated circuits for analogue-to-digital processing of ultra-wideband signals D.G. G. G.
		 An electro-absorption modulator for 1.55 µm wavelength D.V. Gulyaev, Rzhanov Institute of Semiconductor Physics of the
		 Radio imaging techniques V.V. Kulagin, Kotelnikov Institute of Radioengineering and
		 Measuring the phase distribution in the receiving antenna R.V. Ryzhuk, National Research Nuclear University MEPhI
		 Development and research of optical and electronic components of integrated transceivers based on SOI and SiGe technologies for 25 Gbit/s fibre optics A.A. Kokolov, TUSUR University
		 Effect of a deposited SiO₂ buffer layer on the electro-optical characteristics of H:LiNbO₃ modulators A.A. Zhuravlev, Perm Scientific and Industrial Instrument Making Company

		 An electro-optical beam control system for an optical phased antenna array N.S. Laskavy, Perm Scientific and Industrial Instrument Making Company An integral optical splitter based on polarising waveguides M.A. Vetoshkin, Perm Scientific and Industrial Instrument Making Company Fiber optic transmission lines and integrated ring resonators for low noise optoelectronic microwave generators A.B. Ustinov, St. Petersburg Electrotechnical University 'LETI' Experience of research on electro-optical modulators and construction of measuring stands for characterisation of photonic integrated circuits K.I. Ivanov, LLS
23.	13.00-16.00	Conferences of the 11 th Congress of the Photonics Technology
	Southern Hall, Forum Pavilion	Platform
		Fibre optic communication lines and their components
		Moderated by O.E. Naniy, Department Head at T8
		Topics:
		 Advances and prospects for Russian-made DWDM communication systems V.N. Treschikov, T8
		 Experience of research on electro-optical modulators and construction of measuring stands for characterisation of photonic integrated circuits K.I. Ivanov, LLS
		 Regular domain structures for electro-optical modulation of laser radiation formed by an electron beam on a polar cut of lithium niobate S.M. Shandarov, TUSUR University L.S. Kokhanchik, the Institute of Microelectronics Technology and High-Purity Materials of the Russian Academy of Sciences
		 Evolution to open fibre optic transport systems S.S. Kogan, T8
		 Specifics of measurement techniques and refinement of the Brillouin scattering characteristics of industrial single-mode fibres N.V. Kurilenko, Russian Research and Development Cable Institute
		 Clock synchronisation system for DP-QPSK signal demodulator used in coherent optical transponders S.A. Volkov, Coherent Systems
		 «Influence of nonlinear noise correlation on the range of fibre optic links R.R. Ubaydullaev, T8 Science and Technology Center
		– «Fiber amplifiers with optical gain stabilisation

		A.Yu. Igumenov, T8 Science and Technology Center
		– Highly stable laser for optical communications and distributed
		sensors A V Boznikov TS Sonsor
		A. v. Rezilikov, 18 Sensor
		Organised by the Laser Association, EXPOCENTRE AO
24.	13.00-16.00	Conferences of the 11 th Congress of the Photonics Technology
	Orange Hall, Forum Pavilion	Platform
		Laser and optoelectronic information systems
		Moderated by A.A. Marmalyuk, Department Head at Stelmakh Polus Research Institute
		Topics:
		 Scaling the parameters of an AIG:Nd3+ based longitudinally optically pumped laser rangefinder with laser diode arrays by scaling the active medium size and the emission field of the laser diodes matrix
		N.A. Savchenko, Stelmakh Polus Research Institute
		 Honeywell's effective laser gyroscopy strategy: miniaturisation with simplified design and technology T.I. Solovyova, Stelmakh Polus Research Institute
		 Minimising latitude and longitude autonomous navigation errors with the non-linearity of the scale factor of a Zeeman laser gyroscope over a rotation range of up to 100°/s P.A. Filatov, Lasex, Moscow Institute of Physics and Technology
		 Adjustment and parameter check of optical resonators with a non-planar contour V.G. Semyonov, Lasex, Moscow Institute of Physics and Technology
		 Development of power adaptive photonics technologies for remote power supply V.F. Matyukhin, MIREA – the Russian Technological University
		 Smooth optimization of the expansion of marked image sets for neural network training V.A. Kulin, CRI Cyclone
		 Calculation of GPS coordinates of objects detected from aerial survey data G.S. Finyakin, CRI Cyclone
		 Optoelectronic systems for remote monitoring of the surface layer of the atmosphere A.N. Ermolin, M.A. Konyaev, Laser Systems
		 NordLase is a Russian developer and manufacturer of lasers (hybrid, solid-state, fibre lasers) and laser systems. Achievements and innovations D. Savchenko, LLS
		Organised by the Laser Association, EXPOCENTRE AO

25.	13.00–16.00 Western Hall, Forum Pavilion	Conferences of the 11 th Congress of the Photonics Technology Platform
		Holographic technologies
		Moderated by V.Yu. Venediktov, Professor of St. Petersburg Electrotechnical University 'LETI'
		Topics:
		 Diffractional neural networks R.S. Starikov, National Research Nuclear University MEPhI
		 Laser lithography and vacuum plasma technology for the production of diffraction and micro-optical elements V.P. Korolkov, Institute of Automation and Electrometry of the Siberian Branch of the Russian Academy of Sciences
		 «Embossed holograms. The current state and near-term prospects A.F. Smyk, James River Branch llc
		 A mask-based method for synthesising full-colour image holograms of real objects Ch.B. Kaytukov, the Atlas Research and Technical Center
		 Specifics of development of waveguide optical augmented reality systems A.B. Solomashenko, Bauman Moscow State Technical University
		 Holographic optical elements based on photo-thermo- refractive glass N.V. Nikonorov, ITMO University
		 Recording optical waveguides in photo-thermo-refractive glass using femtosecond laser light (jointly with ITMO University) I.P. Tarasov, LLS
		 Equipping holographic laboratories in 2023 A.O. Taganov, Azimuth Photonics
		 Adaptive holographic tomography for bio-medical applications (overview) V.M. Petrov, St. Petersburg State University, ITMO University; A.P. Pogoda, V.V. Sementin, Voenmeh Baltic State Technical University A.A. Sevryugin, V.V. Venediktov, St. Petersburg Electrotechnical University 'LETI'
		 Diffusion fracture of holograms – a tool for materials research and selective element construction A.V. Veniaminov, ITMO University
		Organised by the Laser Association, EXPOCENTRE AO
26.	13.00–16.00 Marble Hall, Forum	Conferences of the 11 th Congress of the Photonics Technology Platform
	Pavilion	Laser micromachining, engraving and marking
		Moderated by S.G. Gorny, Director at Laser Center

		Topics
		 Trends on the laser equipment market
		I.N. Fomenko, Laser Center
		 IRE-Polus laser processing equipment and technology S.A. Shmelyov, IRE-Polus
		 Choosing laser micromachining equipment: possibilities and limitations A. Tsyganova, Lasery i Apparatura Group
		 NordLase's micromachining capabilities – solutions and prospects K.M. Zhilin, LLS
		 Advanced laser micromachining systems for electronics and radioelectronics materials D.V. Virko, the Central Research Institute of Laser Equipment and Technologies, Skolkovo
		 SUSTAINABLE production. High-tech equipment, rationality and honesty D.A. Schukarev, RAZUM
		 Experience of application of the TurboMarker system in the electronics industry N.B. Samartsev, Insys
		 Laser technology in art restoration V.A. Parfenov, St. Petersburg Electrotechnical University 'LETI'
		 Laser applications: from reverse engineering to medicine I.P. Ivanenko, Lomonosov Moscow State University
		 Experience of interaction between science and industry A.V. Loginov, ITMO University
		Organised by the Laser Association, EXPOCENTRE AO
		31 March (Friday)
27.	10.00–13.00 Forum Pavilion, Southern Hall	Extended meeting of the Council for Optics and Photonics of the Department of Physical Sciences of the Russian Academy Sciences Discussion of the most important results of the RAS institutes working under the scientific and methodological guidance of the Department of Physical Sciences of the Russian Academy Sciences
		Organised by the Laser Association, EXPOCENTRE AO

*Subject to alteration