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Vadim E. Privalov
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Contents

vii	<i>Conference Committee</i>
ix	<i>Introduction</i>

SESSION 1 LASERS AND MEASUREMENTS

7006 02	Self-organisation effects in active medium of low diameter gas discharge lasers [7006-01] S. I. Schishov, St. Petersburg State Polytechnical Univ. (Russia)
7006 03	Dynamic processes in active medium of small diameter gas discharge lasers [7006-02] S. I. Schishov, St. Petersburg State Polytechnical Univ. (Russia)
7006 04	Polarization and phase instabilities in gas class-A lasers [7006-03] L. P. Svirina, Institute of Physics (Belarus)
7006 05	Laser-interference methods in hydroacoustic systems [7006-04] G. I. Dolgikh, A. A. Plotnikov, V.I. Il'ichev Pacific Oceanological Institute (Russia)
7006 06	Laser sensing of HF molecules in atmosphere [7006-05] E. I. Voronina, V. E. Privalov, V. G. Shemanin, St.-Petersburg State Polytechnical Univ. (Russia)
7006 07	Scattering of quasi-Gaussian and Bessel laser beams by structurally inhomogeneous media [7006-06] V. N. Belyi, V. A. Dlugunovich, A. G. Mashchenko, N. A. Hilo, A. V. Tsaruk, B.I. Stepanov Institute of Physics (Belarus)
7006 08	Influence of the gas discharge cross section form to laser gain [7006-07] V. E. Privalov, S. F. Yudin, St.-Petersburg State Polytechnical Univ. (Russia)
7006 09	Beams with periodical variation of polarization state [7006-08] A. L. Sokolov, D. S. Zozulya, Moscow Power Engineering Institute and Technical Univ. (Russia)
7006 0A	Nd:YAG laser with passive-active mode-locking [7006-09] W. Zhao, Z. Chen, D. Ren, Y. Qu, S. Mo, Harbin Institute of Technology (China); J. Huang, Harbin Univ. of Science and Technology (China); Y. M. Andreev, Institute for Monitoring of Climatic and Ecological Systems (Russia); V. A. Gorobets, V. O. Petukhov, Institute of Physics (Belarus); A. A. Zemlyanov, Tomsk State Univ. (Russia)
7006 0B	Optical connecting of nonaxial fibers in photopolymerizable compositions [7006-10] S. N. Mensov, Nizhny Novgorod State Univ. (Russia); Yu. V. Polushtaytsev, Institute of Organometallic Chemistry (Russia)

- 7006 OC **Statistical analysis of beam resistance test results for KGSS-0180 glass surface** [7006-11]
D. I. Dmitriev, I. V. Ivanova, V. N. Pasunkin, V. S. Sirazetdinov, A. V. Charukhchev, Research Institute for Complex Testing of Optoelectronic Devices (Russia)
- 7006 OD **Double-frequency-stabilized lasers with a digital system of frequency stabilization** [7006-12]
A. A. Djagilev, M. Y. Kernosov, A. V. Ksendzov, E. G. Tchulieva, A. L. Yarachno, Radio Technical Univ. (Russia)
- 7006 OE **Digital transformations of the phase measurement information in the high resolution heterodyne laser interferometry** [7006-13]
V. I. Teleshevsky, S. G. Grishin, Moscow State Univ. of Technology Stankin (Russia)
- 7006 OF **Measurement of small gas impurity with application of multichannel diode laser spectroscopy** [7006-14]
I. V. Nikolaev, V. N. Ochkin, M. V. Spiridonov, S. N. Tskhai, P.N. Lebedev Physical Institute (Russia)
- 7006 OH **Polarizing properties of polymeric films modified by silver nanoparticles** [7006-15]
V. E. Agabekov, N. A. Ivanova, E. V. Karpinchik, T. G. Kosmacheva, Institute of Chemistry of New Materials (Belarus); V. A. Dlugunovich, O. V. Tsaruk, B.I. Stepanov Institute of Physics (Belarus)

SESSION 2 LASER FOR INFORMATION TRANSFER

- 7006 OI **Development of the single sensor thermodeectors** [7006-16]
V. A. Golovkov, V. S. Nuzhin, Research and Development Institute for Complex Testing of Opto-electronic Devices (Russia); S. K. Savelyev, Baltic State Technical Univ. (Russia); S. V. Solk, Research and Development Institute for Complex Testing of Opto-electronic Devices (Russia)
- 7006 OJ **Optical-television operational amplifier analysis** [7006-17]
M. E. V. Evdokimov, Baltic State Technical Univ. (Russia)
- 7006 OK **High-efficiency optical analog computers of incoherent light on semiconductor nanostructures** [7006-18]
P. G. Kasherininov, A. A. Tomasov, A.F. Ioffe Physico-Technical Institute (Russia)
- 7006 OL **Dynamic joint transform correlator of images** [7006-19]
A. E. Angervaks, St.-Petersburg Univ. of Information Technologies, Mechanics and Optics (Russia); A. F. Malyi, A.F. Ioffe Physico-Technical Institute (Russia); I. U. Fedorov, Baltic State Technical Univ. (Russia); A. S. Shcheulin, St.-Petersburg Univ. of Information Technologies, Mechanics and Optics (Russia)
- 7006 OM **Temperature and pressure sensors based on fiber Bragg gratings** [7006-20]
M. N. Chizhov, A. V. Medvedev, L. B. Liokumovich, St.-Petersburg State Polytechnical Univ. (Russia)
- 7006 ON **Digital simulation of hologram registration with a discrete nonequidistant array** [7006-21]
V. P. Titov, V. Karazin National Univ of Karkov (Ukraine); T. V. Bogdanova, NII Laser Technology (Ukraine)

- 7006 0O **Erythrocytes three-dimensional morphology by digital holographic interference microscopy** [7006-22]
T. V. Tishko, V. P. Titov, D. N. Tishko, V.N. Karazin Kharkov National Univ. (Ukraine)
- 7006 0P **Information in eight dimensions: structuring and processing** [7006-23]
A. Ebanga, V. I. Tarkhanov, St.-Petersburg State Polytechnical Univ. (Russia)
- 7006 0Q **Recognition by means of reduced algorithm** [7006-24]
L. B. Kochin, M. V. Popikov, D. I. Savchenko, D.F. Ustinov Baltic State Technical Univ. Voenmekh (Russia)
- 7006 0R **Optical properties of promising gels on the basis of the dehydrated blood of the animals** [7006-25]
S. N. Skovorod'ko, Joint Institute for High Temperatures (Russia); M. Yu. Gerasimenko, Moscow Provincial Scientific Research Clinical Institute (Russia); V. M. Prosvirnikov, Joint Stock Company Composite (Russia); V. Ya. Mendeleyev, Joint Institute for High Temperatures (Russia)
- 7006 0S **Optoelectronic processors in radiotelescope receiving complexes** [7006-26]
N. A. Esepkina, A. P. Lavrov, S. A. Molodyakov, I. I. Saenko, St.-Petersburg State Polytechnical Univ. (Russia)
- 7006 0T **Enlarging and sintering of the two ends sealed capillaries in capillary stacks for microstructured optical fibers** [7006-27]
G. A. Ivanov, A. A. Makovetskii, A. A. Zamyatin, Institute of Radio Engineering and Electronics (Russia)
- 7006 0U **Information transfer by the signals of electromagnetic nature** [7006-28]
O. D. Moskaletz, St. Petersburg State Univ. of Aerospace Instrumentation (Russia)
- 7006 0V **Comparison of application of photoacoustics and thermoelastic stress analysis methods for detection of mechanical stresses** [7006-29]
K. L. Muratkov, A. L. Glazov, A.F. Ioffe Physical-Technical Institute (Russia)
- 7006 0W **Synthesis of Kalman's algorithm of functioning of an adaptive antenna array** [7006-30]
A. S. Popov, Baltic State Technical Univ. (Russia)
- 7006 0X **Syntheses of stochastic optimal linear control algorithm by adaptive antenna array diagram** [7006-31]
A. S. Popov, Baltic State Technical Univ. (Russia)
- 7006 0Y **Problems of measurements, information, and association of sciences** [7006-32]
V. G. Dubro, Fund-Achievements of Natural Sciences for Solution of Society Problems (Russia)
- 7006 0Z **Variant of association of sciences** [7006-33]
V. G. Dubro, Fund-Achievements of Natural Sciences for Solution of Society Problems (Russia)

- 7006 10 **Micromethod of an estimate of erythrocyte sedimentation rate** [7006-34]
A. A. Aristov, G. S. Evtushenko, Tomsk Polytechnical Univ. (Russia); D. G. Ermolovich, Chita State Univ. (Russia)
- 7006 11 **Comparative estimation of GUI's perception** [7006-35]
L. B. Kochin, D. I. Savchenko, D.F. Ustinov Baltic State Technical Univ. Voenmekh (Russia)
- 7006 12 **Development of the technology of designing of nanocomposite materials based on fluorocontaining synthetic latex and biologically active polysaccharides** [7006-36]
G. A. Davydova, I. I. Selezneva, Institute of Theoretical and Experimental Biophysics (Russia); A. V. Knoŭko, The Moscow State Univ. (Russia); I. V. Savintseva, M. M. Montrel, B. K. Gavriluk, Institute of Theoretical and Experimental Biophysics (Russia)
- 7006 13 **Fluorescent analysis in cell monitoring of environment and human health** [7006-37]
N. A. Karnaukhova, L. A. Sergievich, V. N. Karnaukhov, Institute of Cell Biophysics (Russia)
- 7006 14 **Investigation of DNA: acridine orange biopolymer films by holographic and spectroscopic techniques** [7006-38]
Y. D. Lantukh, S. N. Paschkevich, S. N. Letuta, G. A. Ketsle, E. K. Alidjanov, A. A. Kulsarin, Orenburg State Univ. (Russia)
- 7006 15 **To the development of an automated system of assessment of radiological images of joints** [7006-39]
A. I. Grechikhin, R.Y. Alekseev N. Novgorod State Technical Univ. (Russia); E. A. Grunina, Nizhny Novgorod State Medical Academy (Russia); I. R. Karetnikova, Institute for Physics of Microstructures (Russia)
- 7006 16 **Homology and homotopy of models for geosystems of the Prebaikalie: geoinformation methods of adapting computational schemes to local situations** [7006-40]
E. A. Istomina, V.B. Sochava Institute of Geography (Russia)
- 7006 17 **Homology geoinformation modeling of the threat of avian influenza occurring in a region** [7006-41]
S. I. Myasnikova, V.B. Sochava Institute of Geography (Russia)
- 7006 18 **Spectral correlation method of diagnosis of optical inhomogeneities** [7006-42]
E. O. Boldyreva, D. V. Kiesewetter, V. I. Malyugin, A. V. Modanov, St.-Petersburg State Polytechnical Univ. (Russia)

Author Index

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Introduction

We have regularly held conferences on lasers and modern instrumentation since 1991. The reports from conferences have been published in the proceedings of SPIE. Authors of these papers have been from many different nations, from both inside and outside Russia. The number of topics discussed at the conferences has increased over time, and it was thus decided that the conference Lasers for Measurements and Information Transfer would be held in 2000. The topics included instability and disturbance in the physics of lasers; frequency control and power radiation of lasers; measurements of the parameters of radiation of lasers; the use of lasers as measurement tools; the formation and transfer of optical information; and the optical technology.

More than 90 presentations were given at the conference, which was held June 5–7, 2007. The authors of these presentations were from many different institutions and universities from places such as Russia, Belarus, Ukraine, China, Germany, and Cameroon. 42 of the papers from this conference are included in this proceedings volume.

The volume is separated into two parts: the first, Lasers and Measurements, contains 15 papers on the laser physics, frequency control of the laser radiation, and the use of lasers as tools of measurement; the second part, Lasers for Information Transfer, contains 27 reports on the formation of optical information, optical technology, including biological.

We hope this conference will be held again in the future and that the number of participants will increase. The next conference is planned for June 3–5, 2008. Please send proposals to Baltic State Technical University, 190005, St. Petersburg, Russia; telephone/faxes (812) 555-76-47; (812) 222-20-65; or e-mail vep29@bstu.spb.su.

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