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Dmitry A. Zimnyakov

Nikolai G. Khlebtsov

Editors

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Contents

vii	Conference Committees
ix	Introduction

SESSION 1 NANOSTRUCTURES AND NANOPARTICLES: OPTICAL PROPERTIES AND APPLICATIONS

- 6536 02 **Optical properties of gold-nanoshell planar array** [6536-01]
B. N. Khlebtsov, Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia); V. A. Khanadeyev, Saratov State Univ. (Russia); D. A. Verin, Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia); N. G. Khlebtsov, Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia) and Saratov State Univ. (Russia)
- 6536 03 **Multipole plasmons in gold nanorods: scaling properties and dependence on the particle size, shape, orientation, and dielectric environment** [6536-02]
B. N. Khlebtsov, A. G. Melnikov, Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia); N. G. Khlebtsov, Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia) and Saratov State Univ. (Russia)
- 6536 04 **Effect of microwave irradiation on composite iron oxide nanoparticle/polymer microcapsules** [6536-03]
D. A. Gorin, Saratov State Univ. (Russia) and Max-Planck Institute of Colloids and Interfaces (Germany); D. G. Shchukin, Max-Planck Institute of Colloids and Interfaces (Germany); Yu. A. Koksharov, Moscow State Univ. (Russia); S. A. Portnov, Saratov State Univ. (Russia); K. Köhler, Max-Planck Institute of Colloids and Interfaces (Germany); I. V. Taranov, V. V. Kislov, Institute of Radio Engineering and Electronics (Russia); G. B. Khomutov, Moscow State Univ. (Russia); H. Möhwald, Max-Planck Institute of Colloids and Interfaces (Germany); G. B. Sukhorukov, Queen Mary Univ. of London (United Kingdom)
- 6536 05 **Permeability adjustment of polyelectrolyte micro- and nanocapsules by laser irradiation** [6536-04]
B. V. Parakhonskiy, Shubnikov Institute of Crystallography (Russia) and Moscow State Univ. (Russia); T. V. Bukreeva, Shubnikov Institute of Crystallography (Russia); G. V. Parakhonskiy, Shubnikov Institute of Crystallography (Russia) and Moscow State Univ. (Russia); A. G. Skirtach, Max Planck Institute of Colloids and Interfaces (Germany); G. B. Sukhorukov, Shubnikov Institute of Crystallography (Russia) and Queen Mary Univ. of London (United Kingdom); N. G. Khlebtsov, Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia); L. A. Feigin, M. V. Kovalchuk, Shubnikov Institute of Crystallography (Russia)
- 6536 06 **Investigation of absorption and reflection spectra of aqueous suspensions of nanoparticles in the X band of microwave bandwidth** [6536-05]
S. A. Sergeev, S. A. Portnov, D. A. Gorin, A. I. Mikhailov, S. S. Romyantseva, Saratov State Univ. (Russia); I. V. Taranov, V. V. Kislov, Institute of Radio Engineering and Electronics (Russia); G. B. Sukhorukov, Max-Planck Institute of Colloids and Interfaces (Germany) and Queen Mary Univ. of London (United Kingdom)

- 6536 07 **Fabrication of planar iron oxide nanocomposite films and investigation of their optical and magnetic properties** [6536-06]
D. A. Gorin, Saratov State Univ. (Russia); D. O. Grigorev, Max-Planck Institute of Colloids and Interfaces (Germany); A. M. Yashchenok, Saratov State Univ. (Russia); Yu. A. Koksharov, Moscow State Univ. (Russia); A. A. Neveshkin, A. V. Pavlov, Saratov State Univ. (Russia); G. B. Khomutov, Moscow State Univ. (Russia); H. Möhwald, Max-Planck Institute of Colloids and Interfaces (Germany); G. B. Sukhorukov, Queen Mary Univ. of London (United Kingdom)
- 6536 08 **About both concentration and size effect on optical spectra of polymer composite nanomaterials based on cadmium sulfide and low density polyethylene** [6536-07]
D. M. Kul'batsky, Saratov Technical State Univ. (Russia); N. M. Ushakov, I. D. Kosobudsky, Institute of Radio Engineering and Electronics (Russia); G. Yu. Yurkov, N.S. Kurnakov Institute of General and Inorganic Chemistry (Russia)
- 6536 09 **Carbon nanotubes aligning by Langmuir-Blodgett technique and visualizing by nematic liquid crystals** [6536-08]
A. Sadovoy, Y. Dubovik, V. Nazvanov, Saratov State Univ. (Russia)
- 6536 0A **Handling of nanoparticles with light pressure forces** [6536-09]
I. V. Fedosov, Saratov State Univ. (Russia); I. S. Nefedov, Institute of Radio Engineering and Electronics (Russia); B. N. Khlebtsov, Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia); V. V. Tuchin, Saratov State Univ. (Russia)
- 6536 0B **Application of gold nanoparticles to x-ray diagnostics and photothermal therapy of cancer** [6536-10]
G. S. Terentyuk, The First Veterinary Clinic (Russia); I. L. Maksimova, V. V. Tuchin, Saratov State Univ. (Russia); V. P. Zharov, Univ. of Arkansas for Medical Sciences (USA); B. N. Khlebtsov, V. A. Bogatyrev, L. A. Dykman, N. G. Khlebtsov, Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia)
- 6536 0C **Diagnostic potentialities of plasmon-resonant nanoparticles as contrast agents for the diffuse back scattering spectroscopy of biotissues** [6536-11]
I. L. Maksimova, Saratov State Univ. (Russia); G. S. Terentyuk, The First Veterinary Clinic (Russia); E. A. Genina, A. A. Skaptsov, V. V. Tuchin, Saratov State Univ. (Russia); B. N. Khlebtsov, Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia); V. A. Bogatyrev, N. G. Khlebtsov, Saratov State Univ. (Russia) and Institute of Biochemistry and Physiology of Plants and Microorganisms (Russia)

SESSION 2 OPTICAL POLARIMETRY: FUNDAMENTALS AND APPLICATIONS

- 6536 0D **Orthogonal properties of homogeneous anisotropy medium** [6536-12]
S. N. Savenkov, Y. V. Aulin, Taras Shevchenko Kyiv National Univ. (Ukraine)
- 6536 0E **Inverse problem of polarimetry for homogeneous anisotropy media on basis of Mueller matrix calculus** [6536-13]
S. N. Savenkov, Y. A. Oberemok, Kiev Taras Shevchenko Univ. (Ukraine)
- 6536 0F **Mueller matrix models of the object with isotropic depolarization: experiment** [6536-14]
S. N. Savenkov, Y. A. Oberemok, V. V. Yakubchak, Yu. A. Skoblya, Kiev Taras Shevchenko Univ. (Ukraine)

- 6536 OG **Invariance of anisotropy properties presentation in scope of polarization equivalence theorems** [6536-15]
S. N. Savenkov, I. S. Marfin, Kiev Taras Shevchenko Univ. (Ukraine)
- 6536 OH **Optical properties of multi-domain anisotropic layers with random in-plane orientation of domains** [6536-16]
M. M. Sherman, D. A. Yakovlev, Saratov State Univ. (Russia)
- 6536 OI **Single-polarizer method for measurement of polarization characteristics of incoherent backscattering from anisotropic media** [6536-17]
A. V. Spivak, O. A. Druzhina, Yu. P. Sinichkin, D. A. Yakovlev, Saratov State Univ. (Russia)
- 6536 OJ **Complete and incomplete imaging Mueller matrix polarimetry of homogeneous anisotropic media** [6536-18]
S. N. Savenkov, Yu. A. Oberemok, A. S. Klimov, Yu. A. Skoblya, N. A. Obukhov, National Taras Shevchenko Univ. of Kyiv (Ukraine)

SESSION 3 COHERENCE-DOMAIN TECHNIQUES

- 6536 OK **Correlation technique for exploration of local features of emission spectrum of laser and superluminescence diodes** [6536-19]
V. V. Lychagov, A. L. Kalyanov, D. V. Lyakin, V. P. Ryabukho, Saratov State Univ. (Russia); S. N. Sokolov, INJECT Inc. (Russia)
- 6536 OL **Dual-wave heterodyne reflectometer based on femtosecond Cr:forsterite laser for investigation of light pulse propagation dynamics in strongly scattering media** [6536-20]
V. M. Gordienko, A. N. Konovalov, A. S. Khomenko, M.V. Lomonosov Moscow State Univ. (Russia)
- 6536 OM **Sensing an aqueous Intralipid suspension with optical coherence tomography: reconstruction of the scattering coefficients** [6536-21]
N. Ayari, Univ. Jean Monnet (France); A. Popov, M. Kinnunen, R. Myllylä, Univ. of Oulu (Finland); F. Zhang, Qingdao Univ. (China)
- 6536 ON **Measuring changes in the scattering properties of Intralipid at different depths with optical coherence tomography** [6536-22]
M. Kinnunen, R. Myllylä, Univ. of Oulu (Finland)
- 6536 OO **Comparing low coherence interferometry with conventional methods of measuring paper roughness** [6536-23]
T. Prykäri, E. Alarousu, R. Myllylä, Univ. of Oulu (Finland)
- 6536 OP **Optical coherence tomography of paper: Monte Carlo simulation for multilayer model** [6536-24]
M. Yu. Kirillin, Univ. of Oulu (Finland) and M.V. Lomonosov Moscow State Univ. (Russia); R. Myllylä, Univ. of Oulu (Finland); A. V. Priezhev, M.V. Lomonosov Moscow State Univ. (Russia)

- 6536 OQ **Low-coherent autocorrelation interferometry** [6536-25]
V. V. Lychagov, Saratov State Univ. (Russia) and Institute of Precision Mechanic and Control (Russia); D. V. Lyakin, V. P. Ryabukho, Institute of Precision Mechanic and Control (Russia) and Saratov State Univ. (Russia); M. M. Model, Beth Israel Deaconess Medical Ctr., Harvard Medical School (USA)
- 6536 OR **Neuronet algorithms of data processing in the laser interferometer circuit when detecting low oscillations and vibrations of the object** [6536-26]
A. A. Sirota, V. G. Popov, V. A. Shulgin, Voronezh State Univ. (Russia); D. K. Proskurin, Voronezh State Univ. of Architecture and Construction (Russia)
- 6536 OS **Comparative analysis of the numerical diffraction models** [6536-27]
D. Proskurin, N. Pechenkin, A. Zemtsov, Voronezh State Univ. of Architecture and Civil Engineering (Russia)

SESSION 4 OPTICAL AND ACOUSTICAL METHODS FOR TESTING AND IMAGING

- 6536 OT **Improved stereoscopic imaging with converged camera configuration** [6536-28]
V. V. Petrov, K. A. Grebenyuk, Saratov State Univ. (Russia)
- 6536 OU **Novel optical MEMS device technology for optical networking** [6536-29]
R. Narendra, B.N.M. Institute of Technology (India); J. N. McMullin, Univ. of Alberta (Canada)
- 6536 OV **Low-frequency acoustical defectoscopy** [6536-30]
V. Chirkov, V. Petrov, S. Lapin, A. Ivannikov, Y. Norov, Saratov State Univ. (Russia)
- 6536 OW **Method of ball-rim contact point finding in the ball bearings** [6536-31]
V. Chirkov, V. Petrov, S. Lapin, I. Kozhevnikov, SpectrAcoustics Corp., Saratov State Univ. (Russia)
- 6536 OX **Estimation of β -carotene content in flour using color analysis of reflected light** [6536-32]
L. E. Dolotov, Y. P. Sinichkin, Saratov State Univ. (Russia); S. V. Tuchin, Saratov Research Institute of the South-East (Russia)
- 6536 OY **Optical diagnostics of growing interfaces dynamics in porous media: model and experimental verification** [6536-33]
M. S. Novikov, Saratov State Univ. (Russia); D. A. Zimnyakov, Saratov State Univ. (Russia) and Institute of Precision Mechanics and Control (Russia)
- 6536 OZ **Improved Kubelka-Munk approach for determination of tissues optical properties in biomedical noninvasive reflectance spectroscopy** [6536-34]
L. G. Lapaeva, D. A. Rogatkin, Moscow Regional Research and Clinical Institute MONIKI (Russia)

Author Index

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Valery V. Tuchin, Saratov State University (Russia)

Discussion via Internet

Alexander V. Priezhev, M.V. Lomonosov Moscow State University (Russia)

Introduction

This volume of the *Proceedings of SPIE* contains selected contributions presented at the workshop on Coherent Optics of Ordered and Random Media VII. These presentations, as a part of the International School for Young Scientists and Students on Optics, Laser Physics, and Biophysics (Saratov Fall Meeting 2006) took place in Saratov, Russia, 26–30 September 2006. The Saratov Fall Meeting 2006 (SFM 2006) also included workshops on Optical Technologies in Biophysics and Medicine VIII, Laser Physics and Photonics VIII, Spectroscopy and Molecular Modeling VII, and other workshops.

The general topics of the workshop on Coherent Optics of Ordered and Random Media VII are:

- Nanostructures and nanoparticles: optical properties and applications
- Optical polarimetry: fundamentals and applications
- Coherence-domain techniques
- Optical and acoustical methods for testing and imaging

More than 60 participants from Russia, the United States, the United Kingdom, Germany, Finland, Ukraine, and other countries attended the workshop and seminar. Many invited and submitted presentations were the result of scientific collaboration between research groups from different countries, supported by international and national scientific foundations. We hope that this volume will be a contribution to the further development of basic principles and applications of optical technologies. Also, we hope that this proceedings book will be useful for researchers, engineers, and students specializing in the field of modern optics.

We wish to thank all the authors for their contributions to this volume. Along with our colleagues, SFM 2006 organizers Profs. V. V. Tuchin, L. A. Melnikov, V. L. Derbov, V. I. Berezin, L. M. Babkov, V. P. Ryabukho, and V. I. Kochubey, we wish to thank all the sponsoring organizations, programs, and persons for their support of the SFM2006 School, including the Russian Foundation for Basic Research, SPIE Russia Chapter, Saratov State University SPIE Student Chapter, U.S. Civilian Research & Development Foundation for the Independent States of the Former Soviet Union (CRDF), “Almus”, Ltd (Russia), Erudite-96, Ltd (Russia).

Also, we would like to thank the workshop and Seminar secretary, Liana V. Kuznetsova, and members of the organizing committee for their great help in workshop organization.

Dmitry A. Zimnyakov
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