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Coherent Optics of Ordered and Random Media VII

Dmitry A. Zimnyakov
Nikolai G. Khlebtsov
Editors

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    Valery V. Tuchin, Saratov State University (Russia)

Discussion via Internet
    Alexander V. Priezzhev, 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
Nikolai G. Khelbtsov