WORKSHOP

XIV Annual International Workshop “Nanophysics and Nanoelectronics 2010”

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The 14th International Workshop “Nanophysics and Nanoelectronics” was held in Nizhni Novgorod on March 15–19, 2010. This workshop was organized by the Institute for the Physics of Microstructures of the Russian Academy of Sciences and the Lobachevsky Nizhni Novgorod State University (National Research University) under the support of the Russian Academy of Sciences, Russian Foundation for Basic Research, Rosnano, IEEE, ZAO NT-MDT, OOO RTI, Criomagnetic Systems, OOO Bruker, ZAO Scientific and Technological Equipment, Foundation for Noncommercial Programs Dinastiya, ISTC, Intertech Corp., Omicron NanoTechnology GmbH, Newport Corp., OOO OPTÉK, and Tekhnoinfo Ltd. The Organization Committee for the Workshop was headed by Acad. S.V. Gaponov and Director of the Institute for the Physics of Microstructures (Russian Academy of Sciences) Z.F. Krasil'nik.

The scientific subjects of the workshop encompassed a wide range of issues in the physics of condensed media: transport and optical properties of semiconducting, magnetic, and superconducting nanostructures and the methods of their formation and diagnostics. In addition to plenary sessions, there were also special sessions dedicated to superconducting nanosystems, magnetic nanostructures, general properties of nanostructures and analytical methods

for studying surface, multilayered and crystalline X-ray optics, and semiconducting nanostructures (electronic and optical properties, methods of formation). Selected papers read at the section devoted to semiconductor nanostructures are published in this special issue of *Semiconductors*. Other papers read at the workshop are published in special issues of the journals *Physics of the Solid State*, *Doklady Physics*, and *Journal of Surface Investigation (X-ray, Synchrotron, and Neutron Techniques)*.

The number of participants greatly expanded in comparison with previous years. The workshop was honored by participation of the Members of the Russian Academy of Sciences M.V. Alfimov, A.A. Andronov, M.V. Koval'chuk, I.V. Kukushkin, A.V. Latyshev, S.A. Nikitov, L.A. Prozorova, N.N. Salashchenko, A.A. Saranin, N.N. Sibel'din, V.B. Timofeev, A.R. Khokhlov, and D.R. Khokhlov.

The Organization Committee considers the workshop successful. This scientific forum was the most representative of all such previous workshops and much gained from the plenary and invited papers read by well-known scientists from institutes of the Russian Academy of Sciences and Russian and foreign universities.

Translated by A. Spitsyn