
Editorial

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Biographical notes: Victor A. Bykov graduated from Moscow Institute of Physics and Technology in 1973, then worked in USSR microelectronic industry in 1989. He founded the MDT company (since 1993 – NT-MDT, now known as NT-MDT Spectrum Instruments). As the principal researcher, he participated in development of several generations of scanning probe microscope platforms like Solver, NanoEducator, NTEGRA, and NanoFab. In 2011, he was awarded by the UNESCO Medal for Nanoscience and Nanotechnology development. He is author/co-author of more than 200 publications and patents, has professor position in four universities. Since 2012, he is the President of the Nanotechnological Society of Russia.

D.S. Andreyuk is graduated in 1997 from Biological Faculty of the Moscow State University named after M.V. Lomonosov. After getting PhD in Biology (1999), he worked in Biological Faculty of MSU. From 2004 till 2012, he worked in the NT-MDT Group, the last position was Director of Marketing. From 2012 till now, he is an Executive Vice-President of the Nanotechnological Society of Russia. From 2015 till now, he is an Associate Professor in MSU, Faculty of Economics.

Dear Colleagues!

Scientific conference is very interesting phenomenon as it provides an overview in some area. Like one slice from tomography reconstruction or one snapshot from time lapse series, one event from the row of regular events provides some kind of dynamics in this area. From this point of view Annual Conference of the Nanotechnological Society of Russia reflects the dynamics of nanoscience and nanotechnologies in Russia and in CIS.

What are the topics in this year? Medicine – toxic and other side effects of nanoparticles still cause worries, and several reports are focused on the interaction between nanostructures and living objects. Agriculture – a pool of reports points out

positive effects of metal nanoparticles and nano-fractioned additives on crops cultivation and animal feeding. New materials and new coatings represent the area where engineering technologies and biotechnologies meet. Nanoelectronics covers a broad spectrum of reports from development of new nanoelectronics elements – like memristors – to development of complex devices like medical or metrological equipment.

What are new trends of this year? We should differentiate trends in nanotech in general from trends in the Nanotechnological Society of Russia. In our society two tendencies are obvious. First one is the strengthening of scientific collaboration. Scientists from different regions of Russia and even from different countries are more often involved in large collaborative projects. This trend seems very inspiring for the Society's administration, because our networking activity seems to be the main inducer for such collaboration. The second tendency is increasing the level of affiliated organisations. Seven of top-10 universities in Russia and the largest university of Kazakhstan are mentioned in our reports. As for nanotech in general, the most prominent is the trend of changing the focus from nano – the size-dependent phenomena – to functional effects, figural from science to engineering.

We really hope that articles in this issue will be useful and interesting and that we shall go on with our annual nanotechnological conferences and the next year will bring a new snapshot with new ideas and new signs of development.