



## **NANORUCER Workshop in Moscow, January 13th, 2011**

The NANORUCER project organised the workshop “Strategic Partnership and Joint Calls Between the EU and the Russian Federation in the European Framework Programmes for RTD”. It was held in the Moscow Office of the Delegation of the European Union to Russia. The workshop had two main objectives: firstly, to present interim-results of the NANORUCER project to an audience of high-level officials from the European Commission, Russian policy-makers, scientists and representatives from industry; secondly, to discuss among leading Russian scientists about possible topics for future cooperations in nanotechnology between Russian and European research institutes.

Forty participants from the Russian Government, the Ministry of Education and Science of the Russian Federation, from the Russian Corporation of Nanotechnology (RUSNANO), from different institutes of the Russian Academy of Sciences (RAS), from the Russian Academy of Natural Sciences (RANS), from the Kurchatow Institute, from Lomonosov Moscow State University, from the Bochvar All-Russian Scientific Research Institute of Inorganic Materials, from the State Atomic Energy Corporation (Rosatom), and from the Trade and Industrial Chamber of the Russian Federation joined the workshop and contributed to a very constructive and intensive discussion.

Dr. Manuel Hallen, EC Counsellor for Science and Technology of the Delegation of the European Union to Russia opened the workshop with a welcome speech. Hans Hartmann Pedersen from the European Commission DG Research, Nano- and Converging S&T “Nanomanufacturing” presented an overview of European Funding related to nanotechnology and chaired the first session devoted to “Mapping the nanotechnology innovation system of Russia for preparing future cooperation between the EU and Russia”. Dr. Thomas Reiss, Head of Competence Center Emerging Technologies of the Fraunhofer Institute for Systems and Innovation Research in Germany, introduced this session by presenting an overview of the NANORUCER project including first results. Dr. Nadezhda Gaponenko, Head of Department of the ISS RAS, presented an analysis of the sectoral innovation system of the Russian Federation in nanotechnology carried out within the NANORUCER project. Dr. Sergey Mostinsky, Head of Department of the Corporation RUSNANO provided an overview of the activities of the Russian Cooperation RUSNANO responding to globalisation.

The second session focused on contributions and presentations of different organisations from research and infrastructure related to nanotechnology in the Russian Federation. Dr. Zaikov introduced nanocentres as a background of innovation infrastructure



development from the perspective of the Corporation RUSNANO. Prof. Kulakovsky, Deputy Director of the Institute of Solid State Physics, gave a presentation about electron and nuclear spins in semiconductor quantum dots. Prof. Valery Ryazanov, Head of Department of the Institute of Solid State Physics, talked about the development of superconductive nanoelectronics in Russia. Prof. Viktor Pancirniy from the Bochvar All-Russian Scientific Research Institute of Inorganic Materials discussed nanomaterials for the energy sector. Finally, Prof. Sergey Gavrilov, Vice-Rector of the National Research University Moscow Institute of Electronic Technology, showed how the Zelenograd nanocluster, which is active in nanoelectronics, developed recently.

The afternoon session focused on a brainstorming about future topics for R&D cooperation between Russia and the EU. After a brief introduction of Dr. Thomas Reiss presenting first ideas for such joint topics based on NANORUCER results, the experts from Russian research institutes elaborated in further detail possible themes for cooperation in the six fields nanobiotechnology, nanoelectronics, nanomagnetics, nanooptics, nanomechanics, and nanomaterials. In each of these fields a number of topics was identified and mapped against two dimensions – research intensity in Russia and need for cooperation with European partners. The results of the working groups were presented and discussed with the workshop audience. All in all, the NANORUCER workshop provided a very rich and constructive input to the further work of the NANORUCER project.

Feb. 1<sup>st</sup> 2011, Thomas Reiss