

Foresight, Roadmaps and Indicators for Nanoindustry

INTERNATIONAL WORKSHOP

7-8 October 2009

Central Exhibition Complex EXPOCENTER

(14 Krasnopresnenskaya nab., Moscow)

PROGRAMME

	7 October
9:30-10:00	Registration of participants
	Panel discussion: the future of nanoindustry
10:00	<p>Issues to be discussed:</p> <ul style="list-style-type: none"> • Nanotechnology in the context of the present global problems • The future of nanoindustry: trends and priorities • Nanoindustry markets: prospects for Russia • Nanotechnology sector – a model for S&T modernization • S&T and innovation policies for nanotechnology <p>Mikhail ALFIMOV, Director, Photochemistry Centre of Russian Academy of Sciences, Chair of Science and Technology Board of Russian Corporation of Nanotechnologies</p> <p>Andrey MALYSHEV, Deputy Director General, Russian Corporation of Nanotechnologies</p> <p>Leonid GOKHBERG, First Vice-Rector, Higher School of Economics, and Director, HSE Institute for Statistical Studies and Economics of Knowledge, Russia</p> <p>Mikhail RYCHEV, Deputy Director, Kurchatov Institute, Russia</p> <p>Ian MILES, Institute for Innovation Research, Manchester University, UK</p> <p>Hans PEDERSEN, DG Research, European Commission</p>

Session 1: Trends and policies for emerging technologies	
<i>Chairs: Mikhail RYCHEV, Deputy Director, Kurchatov Institute, Russia, and Ian MILES, Institute for Innovation Research, Manchester University, UK</i>	
10:40	President's Initiative "Strategy of Nanoindustry Development in the Russian Federation" and its implementation Alexander NAUMOV , Department for S&T and Innovation Policy, Ministry of Education and Science of the Russian Federation
11:00	Technology intelligence and impact of Foresight on government technology policy Jonathan CALOF , University of Ottawa, Canada
11:20	Where the Nanoworld is Heading: A Global Perspective Paras N. PRASAD , Institute for Lasers, Photonics and Biophotonics, US
11:40 – 12:00	Coffee break
12:00	Future technology trends in the Russian industry Stanislav NAUMOV , Ministry of Industry and Trade of the Russian Federation
12:20	Global Challenges in Energy and the Environment – and Nanotechnology's Role in Addressing Them Michael HOLMAN , LUX Research, US
12:40	EU policies for converging technologies Hans PEDERSEN , DG Research, European Commission
13:00	Policy agenda for nanotechnology: an international comparison Pavel RUDNIK , HSE Institute for Statistical Studies and Economics of Knowledge, Russia
13:20	Nanotechnology in the German industry: nanoDE-Report Gerd BACHMANN , VDI Technologiezentrum GmbH, Germany
13:40	Risk governance and industry: The Austrian approach Alexander POGANY , Federal Ministry of Transport, Innovation and Technology, Austria
14:00–15:00	LUNCH
Session 2: Nanotechnology Foresight and roadmaps	
<i>Chairs: Boris SALTYKOV, Non-profit Association "Russian House of International S&T Co-operation" and HSE, and Jonathan CALOF, Professor, University of Ottawa, Canada</i>	
15:00	A Delphi study of future nanotechnology markets in Russia Alexander SOKOLOV , HSE Institute for Statistical Studies and Economics of Knowledge, Russia
15:20	Use of weak signals for nanotechnology Foresight Rafael POPPER , Institute for Innovation Research, Manchester University, UK
15:40	Foresight and roadmaps in the system of RUSNANO strategy implementation Anatoly AFANASIEV , Mikhail CHUCHKEVICH , Russian Corporation of Nanotechnologies
16:00	Prospective convergence applications Jack SMITH , Federal Foresight & Innovation Strategy, Defence R&D, Canada
16:20	Roadmapping of industrial nanotechnology applications Oleg KARASEV , HSE Institute for Statistical Studies and Economics of Knowledge, Russia

16:45–17:00	Coffee break
17:00	NIA Forecast of Emerging Technologies Steffi FRIEDRICHS , <i>Nanotechnology Industry Association, Belgium</i>
17:20	Skills for nanotechnology: assessing future demand for the UK Ian MILES , <i>Institute for Innovation Research, Manchester University, UK</i>
17:40	Foresight of demand for human resources and competences in the Russian nanotechnology sector Alexander ABROSKIN, Natalia SHMATKO, Dinara YUSIPOVA , <i>HSE Institute for Statistical Studies and Economics of Knowledge, Russia</i>
18:00	The Resource Sharing Approach to Nanotechnology Workforce Development Stephen FONASH , <i>Center for Nanotechnology Education and Utilization, Pennsylvania State University, US</i>
18:20	Future studies of nanotechnologies through the expert-citizen nanoplatform Ozcan SARITAS , <i>Institute for Innovation Research, Manchester University, UK</i>
18:40-19:00	<i>Discussion</i>
8 October	
Session 3: Integrated statistical framework for measuring emerging/enabling technologies <i>Chairs: Yakov URINSON, Deputy Director General, Russian Corporation of Nanotechnologies, and Alexander KEVESH, Federal State Statistics Service, Russia</i>	
10:00	Indicators of high-tech industries in the European Union Veijo-Ismo RITOLA , <i>Section of Science, Technology and Innovation, Eurostat</i>
10:20	Nanotechnology statistics in Russia: the first results Leonid GOKHBERG , <i>Higher School of Economics, Russia</i>
10:40	Development of classifications for nanotechnology statistics in Russia Konstantin FURSOV , <i>HSE Institute for Statistical Studies and Economics of Knowledge, Russia</i>
11:00	Dynamics in science-based markets: two phases of development Inna HALLER , <i>Fraunhofer Institute for Systems and Innovation Research, Germany</i>
11:20	RUSNANO practices in monitoring commercialization of nanotechnology projects Mikhail CHUCHKEVICH , <i>Russian Corporation of Nanotechnologies</i>
11:45 – 12:00	Coffee break
12:00	Guidelines for a prosperous industrialisation of nanomaterials Marcel van de VOORDE , <i>Delft University, the Netherlands</i>
12:30-13:15	<i>Discussion</i>
13:15-13:30	<i>Wrapping-up / Conclusions</i>
13:40-15:00	<i>LUNCH</i>

Working languages – English and Russian (simultaneous translation)