



# *History and current status of Nanotechnology in Russia.*

*Contribution to global dialog on EHS issues*

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**FORUM VI**  
**Dakar, Senegal**  
**15-19 September 2008**

## ***Outline of Presentation***

- **History of N&N in Russia (1991-2007)**
- **The Golden Age of N&N in Russia from 2007**
- **First Steps in Understanding Risk Assessment of Nanotechnology in Russia**
- **The first State Regulations concerning consumer products using Nanotechnology**
- **Other national and international activities of Russia in the area of nanorisks and nanosafety**
- **Forthcoming events**

## History of N&N in Russia (1991-2007)

- **1992 - “Prospective technologies and devices for micro- and nanoelectronics”**  
**State Programme of Ministry of Education and Science RF**
- **1993 - “The Physics of Solid State Nanostructures”**  
**Interdepartmental Programme**
- **2001 - “Low-dimensional quantum structures”**  
**Programme of Russian Academy of Sciences**
- **2002-2006 - “Industry of Nanosystems and Materials”**  
**Research & Development in priority fields of Russia’s S&T Complex**  
**Federal Targeted Programme (FTP)**
- **From 1992 - Projects funded by Russian Foundation for Basic Research**

## The Golden Age of N&N in Russia from 2007

- **Launch of Russian NNI ~ \$ 7.5 billion by 2015**  
**President announced a national initiative on the development of N&N in Russia in April 26, 2007 (Putin's address to Parliament)**
- **The Russian Research Centre Kurchatov Institute has been chosen to be the scientific coordinator of the Russian NNI(February, 2007)**  
**(<http://www.kiae.ru/>)**
- **ROSNANOTECH State Corporation was created; \$5 billion is being invested into it (July 5, 2007)**
- **“On Development of Nanoindustry Infrastructure in the RF in 2008-2010” Federal Targeted Programme (FTP) was approved (July 12, 2007)**
- **“Industry of Nanosystems and Materials” Sub-programme of FTP 2007- 2012**
- **The Nanoindustry Development Programme up 2015**

# **First Steps in Understanding Risk Assessment of Nanotechnology in Russia**

- **Round table on risks of Nanotechnology for human health and environment  
“Nanomaterials may be reactive, but nanoscientists should be proactive!”  
XII National Conference for Crystal Growth  
A.V. Shubnikov Institute of Crystallography, RAS  
Moscow, October 24, 2006**
- **“Nanotechnologies in Food Industry” Special Session  
IV International Symposium EU—RUSSIA  
CO-OPERATION IN BIOTECHNOLOGY, AGRICULTURE, FISHERIES, FORESTRY  
AND FOOD (Suzdal, September 2007)**
- **“NanoBio and Related New and Perspective Biotechnologies”  
The Fourth International Conference on “Science and Business”:  
Pushchino, October 15- 17, 2007**
- **“Safe foods”  
Seminar on recent developments in the field of early identification and  
prevention of risks in food safety and the role of these developments in risk  
analysis (Moscow, February 5-6, 2008)**



## **The first State Regulations concerning consumer products using Nanotechnology**

- **Regulation 54 concerning the inspection of new products containing Nanomaterials was issued by the Federal consumer rights and human well being department  
Rospotrebnadzor (July 23, 2007)**
- **Approval of the Conception regarding the toxicity studies, risk assessment methodology, identification methods and quantitative description of Nanomaterials  
Rospotrebnadzor, October 31, 2007**

**<http://www.rospotrebnadzor.ru>**

## Other national and international activities of Russia in the area of nanorisks and nanosafety

- Participation of Russia in the work of ISO/TC 229
- Participation of Institutes of RAS and Universities in ISTC projects  
<http://search.istc.ru/index.jsp?v=7>
- Creation of specialized working groups with focus on the development of different aspects of nanorisks and nanosafety in governmental structures and other organizations:
  - ✓ ROSNANOTECH
  - ✓ The expert analytical group for nanosafety and nanorisks at the Center for Advanced Studies <http://www.spbcas.ru>  
The Saint-Petersburg State Polytechnical University
- Special sub-programme in the Nanoindustry Development Programme up 2015

## Forthcoming events

### The 2-d Saint-Petersburg International Conference on NanoBioTechnology NanoBio'2008



**NATO ARW on Biological and Environmental Risks of  
Nanotechnology, Nanobionics and Hybrid Organic-  
Silicon Devices (Silicon vs. Carbon)**

**Saint-Petersburg, June 16-20, 2008**

**[www.spbcas.ru/nanobio](http://www.spbcas.ru/nanobio)**

**V International Symposium EU—RUSSIA CO-OPERATION IN  
BIOTECHNOLOGY, AGRICULTURE, FISHERIES, FORESTRY  
AND FOOD**

**Pushchino, October 1-3, 2008**

**<http://www.fp7-bio.ru/konferencii/v-international-symposium>**



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bridges of  
collaboration**

***THANK YOU  
FOR  
ATTENTION***

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