

Development of microelectronics in the USA and Russia and Society

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Nanotechnology is a field of science and technology dealing with research, as well as methods of production and application of products with a given atomic and molecular structure.

At the end of the 20th - early 21st centuries the accumulation of large technological experience led to the birth of nanoelectronics, bionanosensorics, optonanoelectronic, etc.

The USA and Russia' governments and scientific communities paid big attention to the studies and developments in the field of nanotechnology.

In 2000 President USA Clinton announced the National Nanotechnology Initiative to be an important instrument of the "next industrial revolution."

The total volume of government and commercial financing of research and development in the field of nanotechnology in the United States has increased to \$ 1 billion in 2005.

President Putin paid special attention to the importance of nanotechnology development in his message to the Federal Assembly of 2007.

"The State should identify the necessary funds for personnel and support of the relevant work. The amount of these resources will be at least 130 billion rubles".

A significant part of society met information about works at the new technology with certain skepticism.

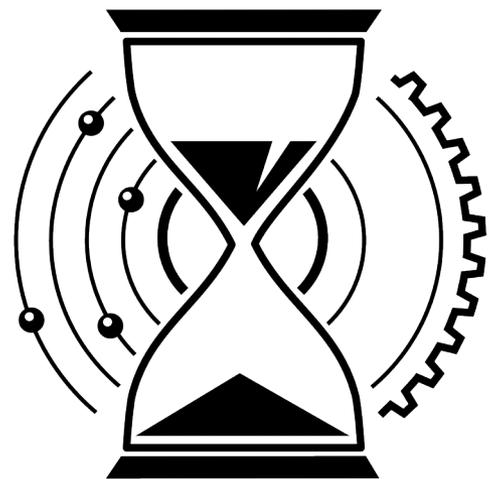
“Will Nanotechnology overcome Poverty or Widen Disparties?”

- N. Invernizzi and G. Foladori ,
in article "Nanotechnology and
the developing World", -

“We already have the technology to solve many problems of the developing world’s problems - we just have not developed the systems to make sure they reach the people who need them”.

After publication of the Presidential Message Russian scientists expected for bringing to the development of the new direction primarily scientists from the Academy of Sciences and Universities.

Still, the approach to drawing up, financing and implementing large projects carried out by newly created corporations and innovative centers, called many questions.



ИИТ РАН

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