Emerging Science and Technology

TOP → BOTTOM

NANO + BIO

Nanotechnology

Nanobiotechnology
Nanobionics
Synthetic Biology

Future Summit Nano & Bio & Info
St. Petersburg International Workshop on NanoBioTechnologies
27 -29 November 2006

Main Organizers
• Ministry of Education and Science of the RF
• Saint-Petersburg Polytechnical University
• M.V.Lomonosov Moscow State University
• Austrian - Russian Working Group
• Saint-Petersburg State University Technology and Design
• Saint-Petersburg Physico-Technical Science and Education Center of Russian Academy of Science
• Center for Advanced Studies of SPbSPU
• Center for Microelectronics and Diagnostics of SPbSEU
• National Documentation Centre of Greece

Satellite Meetings
• Round Table "St. Petersburg RoadMap for Nanotechnologies and Nanobiotecnologies in High-Tech Industry of St.Petersburg"
• Austrian-Russian Workgroup on Nanobiotechnology
• German-Russian Network on Computational Systems Biology
• Russian – Dutch workshop "Modelling and inferring developmental regulatory networks"
• Russian young scientist competition for FASIE
• Special Sessions Funding Opportunities (FP7, NIH, RFBR)

The third position all over the world in NanoBio Meeting = Excellent result!
St. Petersburg International Workshop on NanoBioTechnologies
27 - 29 November 2006

180 participants from:
Russia, Austria, USA, France, Holland, Germany, Finland, Sweden, South Korea, Greece, Romania, Czechia, Belarus, the Great Britain, China

Int. Corporation:
LG TCM, Intel, General Motors, Siemens, Philips, Dupont

Conference Co-Chairs
Mikhail Alfimov (Russia), Director of the Photochemistry Center of RAS
Mikhail Fiodorov (Russia), Rector of St. Petersburg State Polytechnical University
Viktor Sadovnichij, Rector of M.V.Lomonosov Moscow State University

Co-Chairs of Scientific and Organizing Committees
John Reinitz (USA)
Sergey Kozyrev (Russia)
Welcome!

8-th International Workshop
Fullerenes and Atomic Clusters
IWFAC'2007
St. Petersburg, Russia • July 2 - July 6, 2007 •

2-th International Conference
on NanoBioTechnologies
NANOBIO’08
St. Petersburg, Russia • June 30 - July 4, 2008
NIST-NEST as bridge from FP6 to FP7 for Russian Federation

Saint-Petersburg
experts evaluation: ~20% of scientific potential

Moscow and Moscow region

Novosibirsk

South Federal District
## Submitted projects for the 1st call of FP7

<table>
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<th>Preliminary topic / FP7 Thematic priority</th>
<th>Ref no. if applicable or FP7 Call Thematic Code</th>
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<td><strong>Submitted in 1(^{st}) Call</strong></td>
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<tr>
<td>1  &quot;Integrated model of sustainable planning for utility systems in the dwelled areas&quot;. Cooperation - Environment</td>
<td>FP7-ENV-2007-1 Ref. No. FP7-212597</td>
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<td>2  «Folk2Folk: Social Sharing Networks» (STREP) Cooperation - ICT</td>
<td>FP7-ICT-2007-1</td>
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<td>3  «Inconet.EECA» (CSA), Cooperation - INCO</td>
<td>FP7-INCO-2007-1</td>
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<td>4  &quot;Advanced functionality of amorphous materials via nano-self-organization&quot; (CP-FP), Cooperation – NMP</td>
<td>FP7-NMP-2007-SMALL-1 Ref.No. FP7-211770</td>
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<td>5  &quot;...&quot; Cooperation – NMP</td>
<td>FP7-NMP-2007-1</td>
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<tr>
<td>1</td>
<td>«Ecology of Solid Wastes»</td>
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<td>&quot;Water supply management including hydro power in NIS Countries of</td>
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<td>Central Asia&quot;</td>
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<td>3</td>
<td>«Scenarios for critical civil infrastructures security»</td>
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<td>«Water treatment processes and tools»</td>
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<td>Cooperation –</td>
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<td>«Renewable energy storages»</td>
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<td>7</td>
<td>&quot;Human Body Modelling&quot;</td>
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<td>8</td>
<td>«Super-resolution Lithography»</td>
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</table>
EUV&SXR Super-Resolution Nanolithography and Nanomicroscopy (5-15 nm) for Frontier Application “Beyond Rayleigh’s Limitation”

We search the industrial partner for the FP7 project
Theme 4 - Nanosciences, Nanotechnologies, Materials and New Production Technologies - NMP.”
SMALL or MEDIUM-SCALE focused research project

2002-2005 it was supported by the Japan Government, ISTC Contract #0991, US$ 1 million

Russian key person: :
Prof. Ruben P. Seisyan
Head of Lab. in Ioffe Institute, Head of Chair in Saint Petersburg Polytechnical University,
rseis@ffm.ioffe.ru

FP7 Coordinator:
Patrik Hoffmann
EPFL-APL, Station 17
CH-1015 Lausanne
Switzerland

The Nanolithographer
Vacuum housing on its normal place inside the clean room at February 2007, in Ioffe Institute. The image module is on the right, on the left is the illumination module during vacuum testing.

Microphotograph of interference structure on the sample surface. Scale rule length – 100 nm.
\( \lambda = 13.4 \text{ nm} \)
Dissemination of information about NIS-NEST activity and Organization of NCP Idea in Russia

FP7 Seminar, SPb State Polytechnical University, St Petersburg, 20 February 2006
(Reports of key speakers on http://www.spbcas.ru/russian/news/NISNEST/papers.html
CD disk containing information about FP7 translated in Russian)

• Meeting in the Russian Ministry of Education and Science under chair of deputy minister V.N. Fridlyanov, Moscow, 21 February 2007

• Meeting in the Committee on Science and Higher Education of the Government of St.Petersburg under chair of Committee head A.D. Viktorov, St Petersburg, 14 March 2007

Thanks for Invitation and Attention!

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