

NANOICT COORDINATION ACTION ORGANISES A BIOICT SESSION AT THE “BIOINSPIRED NANOSYSTEMS AND NANOMATERIALS” NANOSWEC WORKSHOP IN BORDEAUX, FRANCE

Madrid (Spain): November 11, 2009

Over the last decades, tremendous progresses have been achieved in our capability to do work at the nm scale. Design and fabrication of new nano-objects, ingenious and sophisticated experimental set up dedicated to characterize, manipulate and organize matter at nanoscale. Nanosystems and nanoobjects open new area with a dominant role of interface properties increasing the level of complexity. Nanosciences and nanotechnology have a great deal to learn from bioscience, but it might also be the other way around: “unless you can build it yourself, you don’t understand it”. In other words, by trying to build nanostructures and nanomachines, our understanding of natural complex architectures will greatly increase and generate new insights for the extraordinary complexity we see in Nature.

To achieve such formidable tasks, biologists, bio-chemists, chemists, physicists and mathematicians must work together. While obviously a pressing need, somehow this goal appears as an ideal one given the fragmentation these disciplines must sometimes endure.

The “Bioinspired nanosystems and nanomaterials” NanoSWEC (Nano South-West European Conference) Workshop aimed at gathering all these disciplines involved in bio inspired and bio mimetic approaches to conceive new systems and materials. The NanoSWEC Workshop took place in Bordeaux (France): November 2-4, 2009.

During the event, the EU funded Coordination Action “nanoICT” co-organised a specific session on BioICT issues including the following invited talks:

Jean-Jacques Toulmé (IECB, Bordeaux): *Aptamer scaffolds for nanodevices*

Igor Nabiev (CIC nanoGUNE Consolider, Spain): *Resonance Energy Transfer from Semiconductor Quantum Dots Improves Biological Function of Bacteriorhodopsin within the “Bacteriorhodopsin-Quantum Dot” Hybrid Material*

Dek Woolfson (School of Chemistry, University of Bristol, UK): *Rational Peptide Design in Nanoscience and Synthetic Biology*

Principal aims of these specific sessions are to define future research directions for the physical realisation of ICT, actively promote and disseminate the results of ICT-FET initiatives and increase the impact of the NanoICT FET proactive initiative on the innovation potential of Europe.

More info:

NanoICT project <http://www.nanoict.org>

Nano South-West European Conference, NanoSWEC2009:

http://www.u-bordeaux1.fr/cnano/index.php?option=com_content&task=view&id=184&Itemid=154

Contact Information:

-Questions regarding the nanoICT project please contact:

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About Phantoms Foundation: This Non-Profit organisation was established on November 26, 2002 (Madrid, Spain) in order to provide high level Management profile to scientific projects. This association plays an important role in the 7th Framework Programme as a platform for European funded projects (nanoICT, nanomagma, nanoCODE) to spread excellence amongst a wider audience, and to help in forming new networks.

This Association is now a key actor in structuring and fostering European Excellence in “Nanoscience and Nanotechnology”, having a world leading position in organising conferences, training and dissemination activities in this field.

WEB site: <http://www.phantomsnet.net>

-Questions regarding the NanoICT EU-FET proactive program please contact:

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