

**Workshop on**  
***'Nanotechnology for electronic and photonic applications'***

**Date of the Workshop:** September 18, 2009, Athens - *during ESSDERC-ESSCIRC'2009*

**Organized by:** Dimitris Tsoukalas (NTUA) and Panos Dimitrakis (NCSR Demokritos) and supported by EU Marie-Curie project NANOSOURCE.

**Abstract:**

The workshop will focus on the latest experimental results regarding the applications 0-D and 1-D material structures like nanoparticles and nanotubes in the field of electronics and photonics. New techniques for the fabrication of innovative (opto-) electronic devices based on the above nanostructured materials will be presented, also.

**Program:**

**9.00 – 9.10 Introduction**

**9.10 – 9.45** *"Si nanostructures for solar and photonic applications"*, Fabrice Gourbilleau, UMR-CNRS, France

**9.45 – 10.20** *"Silicon nanophotonics: Present status and some perspectives"*, Leonid Khriachtchev, University of Helsinki, Finland

**10.20 -10.50 Coffee**

**10.50 – 11.25** *"Hybrid optoelectronics for light harvesting and light emitting applications"*, Pavlos Lagoudakis, University of Southampton, UK

**11.25 – 12.00** *"TEM-based quantitative analysis of nanoparticles for application in microelectronics"*, Sylvie Schamm, CEMES-CNRS, France

**12.00- 13.30 Lunch**

**13.30 – 14.05** *"Deposition Fabrication of nanoparticles in vacuum"*, Alistair Kean, Mantis, UK

**14.05 – 14.40** *"Soluble Functionalized Carbon Nanohorns in Donor-Acceptor Nanoensembles"*, Nikos Tagmatarchis, NHRF, Greece

**14.40 – 15.15** *"Electrically Charging Nano-particles and Small Molecules"*, Shashi Paul, de Monfort University, UK

**15.15 – 15.50** *"Silicon nanowire non-volatile memory cells: Progress and prospects"*, Dimitris Ioannou, George Mason University, USA