
Tuesday, October 16, 11:30, Room “B”

**NANOSTRUCTURES &
NANOTECHNOLOGY 1**
Session N1: Oral presentations

Chair:

L.M. Ciurea, INCD-FM, Bucharest, Romania

M. Dragoman, IMT Bucharest, Romania

N1.1 *POROUS SILICON DECORATED METALLIC*
11:30 *NANOPARTICLES FOR GROWING VERTICALLY*
ALIGNED CARBON NANOTUBES, **L.M. Veca**,
F. Craciunoiu, **M. Kusko**, **M. Danila**, **A. Dinescu**,
IMT Bucharest, Romania.

N1.2 *SCALING EFFECTS ON THE GATE*
11:50 *CAPACITANCE OF GRAPHENE NANORIBBON*
TRANSISTORS, **G.S. Kliros**, Hellenic Air-Force
Academy, Attica, Greece.

N1.3 *SEMICONDUCTOR QUANTUM DOTS AS*
12:10 *HIGHLY EFFECTIVE BIOSENSING TOOLS*,
R. Buiculescu¹, **N.A Chaniotakis**^{1,2}, ¹Univ. of
Crete, Greece, ²TUFTS Univ., Medford, USA.

N1.4 *TRANSPORT MECHANISMS IN SiO₂ FILMS WITH*
12:30 *EMBEDDED GERMANIUM NANOPARTICLES*,
C. Palade¹, **A.-M. Lepadatu**^{1,2}, **I. Stavarache**¹,
A.V. Maraloiu¹, **V.S. Teodorescu**¹, **M.L. Ciurea**^{1,3},
¹INCD-FM, Bucharest, ²Univ. of Bucharest,
³Academy of Romanian Scientists, Bucharest,
Romania.

- N1.5** *PRELIMINARY STUDIES ON NANOCOMPOSITE*
12:50 *BASED ON HIGH QUALITY SILICON CARBIDE*
NANOFIBERS, S. Bellucci¹, I. Sacco¹,
F. Micciulla¹, A. Dąbrowska², A. Huczko²,
E. Caponetti³, M. Floriano⁴, A. Dinescu⁵, ¹INFN–
Frascati National Laboratories, Roma, Italy, ²Univ.
of Warsaw, Poland, ³Centro Grandi
Apparecchiature, Univ. of Palermo, ⁴Chemistry
Department “S. Cannizzaro”, Univ. of Palermo,
Italy, ⁵IMT Bucharest, Romania.
- N1.6** *APPLICATIONS OF DEVICES WITH MULTI-*
13:10 *BARRIER STRUCTURES IN GRAPHENE*,
A. Zubarev, D. Dragoman, Univ. of Bucharest,
Romania.
- N1.7** *HOW TO IMPROVE THE SILICON*
13:30 *NANOCRYSTAL MEMORY CELL*
PERFORMANCES FOR LOW POWER
APPLICATIONS, V. Della Marca^{1,3},
J. Amouroux^{1,3}, G. Molas³, J. Postel-Pellerin²,
F. Lalande², P. Boivin¹, E. Jalaguier³, B. De
Salvo³, J-L. Ogier¹, ¹STMicroelectronics, Rousset,
²IM2MP-CNRS, Univ. Aix-Marseille, ³CEA-LETI,
MINATEC Grenoble, France.

13:30–14:30 LUNCH
