

CONFERENCE PROGRAM n&n 2011 19-23 September 2011

<http://www.lnf.infn.it/conference/nn2011/>

Monday 19

nn11

9.00 – 10.00 Registration and Welcome Coffee

10.00 – 10.10 Introduction to nn2011 Conference by Prof. U. Dosselli, Director of the Frascati National Laboratories - INFN

Session01: Touschek Auditorium

(10.10 – 13.00)

Chair: S. Bellucci

10.10 – 10.55 E. Vescovo, Brookhaven National Laboratory, Upton, USA - “tba” Keynote lecture

10.55 – 11.30 P. Vavassori, NanoGUNE, Donostia - San Sebastian - “tba” Invited Speaker

11.30 – 12.05 C. Dallera, Politecnico Milano, Italy - “Optical control of the magnetization in ferromagnetic films” Invited Speaker

12.05 – 12.45 J.-P. Bucher, Institut de Physique et Chimie des Matériaux de Strasbourg, France- “Electron pinning and spin states at the molecule-substrate interface” Invited Speaker

12.45 - 14.15 Lunch Break

Session02 : Touschek Auditorium

(14.15 – 17.40)

Chair: F. Ciccacci

14.15 – 15.00 A. Patriciello, European Parliament Committee for Industry, Research and Energy (ITRE) & IRCCS Neuromed, Pozzilli (Isernia), Italy - Keynote lecture

15.00 – 15.35 F. Bisio, Univ. Genova, Italy - “tba” Invited Speaker

15.35 – 16.00 Z. Wu, Univ. of Science and Technology, Hefei, China - “tba”

16.00 - 16.30 Coffee Break

Chair: G. Bussetti

16.30 – 17.05 G. Carlotti, Univ. Perugia, Italy - “tba” Invited Speaker

17.05 – 17.40 V. Palermo, ISOF CNR Bologna, Italy - “tba” Invited Speaker

Session03 : Touschek Auditorium

(9.30 – 13.15)

Chair:

9.30 – 10.15 F. Cacialli, London Centre for Nanotechnology, University College London, UK - “tba”

Keynote lecture

10.15 – 10.40 G. Bussetti, Milan Polytechnical Univ., Italy - “tba”

10.40 – 11.05 F. Micciulla, INFN LNF, Frascati, Italy - “tba”

11.05 - 11.35 Coffee Break

Chair:

11.35 – 12.10 F. Ciccacci, Milan Polytechnical Univ., Italy - “Spin polarized electrons in SiGe nanostructures”

12.10 – 12.45 A. Marcelli, INFN LNF, Frascati, Italy - “tba”

12.45 – 13.10 V. Zaksarenko, Institute of Photonic Technology, Jena, Germany - “Progress towards nanoSQUIDs based on sub-micrometer cross-type Josephson tunnel junctions”

13.10 - 14.30 Lunch Break

Session04: Touschek Auditorium

BY-NanoERA—Institutional Development of Applied Nanoelectromagnetics 14.30 – 17.50

Chair: S. Maksimenko

14.30 – 15.05 G. Miano, University of Naples Federico II, Naples, Italy - “Multiwall Carbon Nanotubes with Intershell Tunneling”

15.05 – 15.30 R. Kotsilkova, Bulgarian Academy of Sciences Sofia, Sofia, Bulgaria - “Multiwall Carbon Nanotube Based Epoxy Composites: Rheology, Electrical and Nanomechanical Properties”

15.30 – 15.55 P. Kuzhir, Belarus State University, Institute for Nuclear Problems, Minsk, Belarus - “Thermal Stable Unfired Ceramics Filled with Micro-Sized Boron Compounds and Carbon Nanotubes for Neutron Protection”

15.55 – 16.20 I.V. Zaporotskova, Volgograd State University, Volgograd, Russia - “Research of oxidation processes of boron-carbon nanotubes”

16.20 - 16.50 Coffee Break

Chair:

16.50 – 17.25 S. Maksimenko, Belarus State University, Institute for Nuclear Problems, Minsk, Belarus - “tba”

17.25 – 17.50 S. Bellucci, INFN LNF, Frascati, Italy – “tba”



Wednesday 21

Visit to LNF 9.30 – 11.45

Session05: Touschek Auditorium

DENSE - Nanostructured Carbon Based Polymer Composites 11.45 – 13.15

Chair:

11.45 – 12.15 P. Lamberti, University of Salerno, Fisciano (SA), Italy – “Equivalent RC circuits for simulating the frequency behavior of MWCNT/epoxy nanocomposites at different filler concentrations”

12.15 – 12.45 S. Sarto, Univ.of Roma La Sapienza, Italy - “tba”

12.45 – 13.15 G. Russo, University of Salerno, Fisciano (SA), Italy –, Italy - “Mesh Membranes obtained using Electrospinning technique: drug delivery phenomena and non-toxicity tests”

13.15 - 14.30 Lunch Break

Session06: Touschek Auditorium

DENSE - Nanostructured Carbon Based Polymer Composites 11.45 – 17.40

Chair: V. Tucci

14.30 – 15.10 tba

15.10 – 15.40 R. D’Elia, INFN LNF, Frascati, Italy - “tba”

15.40 – 16.10 A. Dabrowska, Warsaw University, Warsaw, Poland - “Self-propagating High-Temperature Synthesis (SHS) as an efficient way towards new nanocomposites fillers”

16.10 - 16.40 Coffee Break

Chair:

16.40 – 17.20 A. Dinescu, IMT Bucharest, Romania - “Effect of LV-SEM imaging on graphene based devices”

17.20 – 17.50 M. Pisarra, Dept. of Physics, University of Calabria - INFN, Cosenza, Italy - “Secondary Electron Emission from graphene adsorbed on Ni(111) surfaces”

Session07: Touschek Auditorium

Carbon nanostructures for VLSI interconnects and RF Nanopackaging (9.30 - 13.30)

Chair: J. Allam (tbc)

9.30 – 10.10 H. Ohno, Tohoku University, Japan - “tba” Keynote lecture

10.10 – 10.40 Y. Shunin, Information Systems Management Institute, Riga, Latvia - “Simulations on Electromagnetic Properties for Cnt- And Gnr- Metal Interconnects”

10.40 – 11.10 tba, - “tba”

11.10 - 11.40 Coffee Break

Session08: Touschek Auditorium

Chair: L. Pierantoni

11.40 – 12.20 F. Coccetti, LAAS-CNRS, Toulouse, France - “RF Nanotechnology”

12.20 – 12.50 N. Neskovic, Vinča Institute of Nuclear Science, Belgrade, Serbia - “Rainbows with crystals and nanotubes”

12.50 – 13.20 M. Cosic, Vinča Institute of Nuclear Science, Belgrade, Serbia - “Quantum positron channeling in a carbon nanotube”

13.20 - 14.30 Lunch Break

Session09: Touschek Auditorium

Nanotechnology for biomedical and environmental applications (14.30 – 18.15)

Chair:

14.30 – 15.10 B. Panessa-Warren, U.S. Dept. of Energy, Brookhaven National Laboratory, Upton, USA - “tba”

15.10 – 15.40 Sherif S. Z. Hindi, King Abdulaziz University, Jeddah, KSA – “Pyrolytic biomass-fusion hybrid system for energy and chemical production”

15.10 – 15.40 M. Abdel Salam, King Abdulaziz University, Jeddah, KSA - “Carbon nanotubes: Curse or Cure?”

15.40 – 16.20 C. Cabrera, Department of Chemistry - University of Puerto Rico, San Juan, Puerto Rico “Nanotechnology in urine purification for wastewater recycling”

16.20 - 16.50 Coffee Break

Chair:

16.50 – 17.25 tba, - “tba”
17.25 – 17.50 tba, - “tba”
17.50 – 18.15 tba, - “tba”

18.15 – 19.15 POSTER SESSION

Bizhan Malaekh-Nikouei, Mashhad University of Medical Sciences, Mashhad, Iran – Transfection Efficiency of Hydrophobic Polyethyleneimine-based Cationic Nanoliposomes

M.A. Gabal, King Abdulaziz University, Jeddah, KSA – Structural analysis and magnetic properties of nanocrystalline NiCuZn ferrites synthesized via a novel gelatin method

G. Russo, University of Salerno, Fisciano (SA), Italy - “ Preparation and morphological characterization of Mesh Membranes obtained using Electrospinning technique”

Reza K. Oskuee, Mashhad University of Medical Sciences, Mashhad, Iran – Influence of Charge Reduction and Partial Hydrophobization on Gene Delivery Efficiency of High Molecular Weight Polyethylenimine/DNA Nanoparticles

Piotr Jedrasik, Chalmers University of Technology, Göteborg, Sweden – Process control in sub-10nm delineation for low-dimensional nanostructures

M.A. Gabal, King Abdulaziz University, Jeddah, KSA – Synthesis and characterization of nanocrystalline PbTiO(3)

L. Guadagno, University of Salerno, Fisciano (SA), Italy – Investigation of electrical, and dynamic mechanical properties of multi-walled carbon nanotube/epoxy composite

Magdy Y. Abdelaal, Mansoura University, ET-35516 Mansoura, Egypt - “Mechanical and Thermal Properties of Multi-Walled Carbon Nanotubes/Unsaturated Polyester Composites”

Sherif S. Z. Hindi, King Abdulaziz University, Jeddah, KSA – “Effect of acid hydrolysis on yield and quality of lignocellulosic municipal waste based-cellulose nanocrystals”

M. Raimondo, University of Salerno, Fisciano (SA), Italy – “Development of self-healing epoxy nanocomposites for structural applications”

20.00 Conference Dinner



Friday 23

Session10: Touschek Auditorium

Models on Nanodimensional Structures 9.30 – 13.20

Chair: M. Cini

9.30 – 10.10 tba, - “tba”

10.10 – 10.40 G. Stefanucci, Dept. of Physics, University of Rome “Tor Vergata”, Roma, Italy - “tba”

10.40 – 11.10 E. Perfetto, Dept. of Physics, University of Rome “Tor Vergata”, Roma, Italy - “tba”

11.10 - 11.40 Coffee Break

Chair:

11.40 – 12.20 A. Sindona, Dept. of Physics, University of Calabria - INFN, Cosenza, Italy - “**Cluster and periodic density functional study of Auger Electron Emission from Carbon Nanotubes**”

12.20 – 12.50 Yu. Zhukovskii, Univ. of Latvia, Riga, Latvia - “**Theoretical Simulations on Inter-Shell Interactions in Double-Wall Carbon Nanotubes of Different Morphology**”

12.50 – 13.20 M. Cini, Dept. of Physics, University of Rome “Tor Vergata”, Roma, Italy - “tba”

13.20 - 14.30 Lunch Break

END OF CONFERENCE.