

nanoPT 2015 International Conference - **PROGRAMME**

WEDNESDAY – FEBRUARY 11, 2015		
09h30-11h00	Registration nanoPT2015	
11h00-11h15	Opening - Welcome	
Plenary Session - Chairman: Lars Montelius (INL, Portugal)		
11h15-11h45	Francesco Bonaccorso (IIT, Italy) <i>"Solution processing of graphene, related 2d crystals and hybrid structures for energy conversion and storage"</i>	K
11h45-12h15	Mercedes Vila (University of Aveiro, Portugal) <i>"Nanographene Oxide mediated cell hyperthermia"</i>	K
12h15-12h30	Jerome Borme (INL - International Iberian Nanotechnology Laboratory, Portugal) <i>"Wafer-scale fabrication of solution-gated graphene field-effect transistors for biosensing applications"</i>	O
12h30-12h45	Giovanni Onida (University of Milan, Italy) <i>"Carbon sp wires and their coupling to graphene"</i>	O
12h45-14h30	Cocktail Lunch (offered by nanoPT2015) - Poster Session & Instrument Exhibition	
Plenary Session - Chairman: Francesco Bonaccorso (IIT, Italy)		
14h30-14h45	Suzana M. Andrade (Instituto Superior Técnico - Centro de Química Estrutural, Portugal) <i>"Toward multifunctional gold nanoparticles/graphene hybrid assemblies associated to photoactive molecules"</i>	O
14h45-15h00	Ana Neves (University of Exeter, United Kingdom) <i>"Graphene-coated transparent conducting fibres for smart textiles"</i>	O
15h00-15h15	Sohel Rana (University of Minho, Portugal) <i>"Development of Ductile Cementitious Composites Using Carbon Nanotubes"</i>	O
15h15-15h30	Igor Kuzmenko (Ben Gurion University of the Negev, Israel) <i>"Two-Channel Kondo Effect in Carbon Nanotube Quantum Dot"</i>	O
15h30-15h45	Lifeng Liu (International Iberian Nanotechnology Laboratory (INL), Portugal) <i>"Extraordinarily Efficient Electrocatalytic Hydrogen Evolution Achieved by Amorphous MoO₃S₂ Catalysts Electrodeposited on Crystalline TiO₂ Nanotube Arrays"</i>	O
15h45-16h45	Coffee Break - Poster Session & Instrument Exhibition	
Plenary Session - Chairman: Braz Costa (CITEVE/CENTI, Portugal)		
16h45-17h15	Lars Montelius (INL, Portugal) <i>"Bridging the materials gap through radical Innovations"</i>	K
17h15-17h30	Vincent Morin (Raith GmbH, Germany) <i>"Ion Column and Source technology employing Gallium and New Ion Species for Advanced FIB Nanofabrication"</i>	O
17h30-17h45	Maria Jesus Perez Roldan (CIC nanoGUNE Consolider/Advanced microscopy, Spain) <i>"One step FEBID fabrication of Co based magnetic nanotubes"</i>	O
17h45-18h00	Pedro Costa (Physical Sciences and Engineering Division, Saudi Arabia) <i>"The structure and chemistry of CNTs in electrical nanodevices fabricated by beam deposition"</i>	O
18h00-18h15	Diego Repetto (University of Genoa, Italy) <i>"Transparent aluminum nanowires electrodes with optical and electrical anisotropic response fabricated by defocused ion beam sputtering"</i>	O

K: Keynote Speaker O: Oral contribution

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THURSDAY – FEBRUARY 12, 2015		
Plenary Session - Chairman: Arben Merkoçi (ICN2, Spain)		
09h00-09h30	Elvira Fortunato (CENIMAT-I3N, Portugal) <i>"A review on metal oxide semiconductors applied to transistors: from nanofilms to nanoparticles"</i>	K
09h30-09h45	Claudia Raposo (IBET, Portugal) <i>"Synthesis of novel galactose-PLGA nanoparticles containing doxorubicin for hepatocyte targeting"</i>	O
09h45-10h00	Daniela Ribeiro (ICETA/REQUIMTE/FFUP, Portugal) <i>"Characterization of Model Membranes under the Effect of Anticancer Drugs"</i>	O
10h00-10h15	Ana Vila (International Iberian Nanotechnology Laboratory (INL), Portugal) <i>"Designed Nanocomposite Magnetic Beads for isolation of Circulating Tumor Cells (CTC)"</i>	O
10h15-10h30	Seunghwan Lee (Technical University of Denmark, Denmark) <i>"Mucoadhesion to Improve Slipperiness of Mucin Layers"</i>	O
10h30-10h45	Ana Bettencourt (Universidade de Lisboa, Portugal) <i>"Does surface charge play a role in nanoparticulate-systems toxicity?"</i>	O
10h45-11h00	Filomena Carvalho (Instituto de Medicina Molecular, Portugal) <i>"AFM as a nanotool to evaluate protein-cell interactions and cell-cell adhesion on cardiovascular pathologies"</i>	O
11h00-13h00	Coffee Break - Poster Session & Instrument Exhibition	
13h00-14h30	Lunch (not included)	
Plenary Session - Chairman: Elvira Fortunato (CENIMAT-I3N, Portugal)		
14h30-15h00	Arben Merkoçi (ICN2, Spain) <i>"Nanobiosensors and applications in diagnostics"</i>	K
15h00-15h15	Quirina Ferreira (Instituto de Telecomunicações, Portugal) <i>"Biocompatible and nanostructured monolayers on graphite for drug delivery applications"</i>	O
15h15-15h30	Sofia Lima (REQUIMTE / University of Porto, Portugal) <i>"Temperature-responsive polymeric nanospheres containing methotrexate and gold nanoparticles: a multi-drug system for theranostics in rheumatoid arthritis"</i>	O
15h30-15h45	Joana Queiroz (REQUIMTE / University of Porto, Portugal) <i>"New insights in the development of solid lipid nanoparticles for active brain-targeted drug delivery"</i>	O
15h45-16h15	Inês Pinto (INL- International Iberian Nanotechnology Laboratory, Portugal) <i>"Epithelial Tumor Dynamics: Nanocharacterization of force-generating structures"</i>	K
16h15-16h30	Juan Manuel Serrano Núñez (Sesderma, Spain) <i>"Repair of UV light-induced dna damage"</i>	O
16h30-17h15	Coffee Break - Poster Session & Instrument Exhibition	
Plenary Session - Chairman: Inês Pinto (INL- International Iberian Nanotechnology Laboratory, Portugal)		
17h15-17h45	Emilio Artacho (CIC nanoGUNE, Spain) <i>"On the origin and switching of a two-dimensional electron gas under a thin perovskite film"</i>	K
17h45-18h00	Alexander Bagaturyants (Photochemistry Center RAS, Russia) <i>"Multiscale Atomistic Modeling of Amorphous Organic Functional Materials for Optical Chemical Sensing and OLED Applications"</i>	O
18h00-18h15	Fernando Cruz (Requimte/CQFB, Universidade Nova de Lisboa, Portugal) <i>"Thermodynamics of DNA Strands Encapsulated into Electrically Charged Nanotubes"</i>	O
18h15-18h30	Maria Peressi (University of Trieste, Italy) <i>"Seeding, nucleation and reactivity of alumina/Ni₃Al(111) supported metallic nanoclusters: an ab-initio investigation"</i>	O
20h30	Conference Dinner – Grande Hotel do Porto – Rua de Santa Catarina, 197	

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FRIDAY – FEBRUARY 13, 2015		
Parallel Session - Seniors - Modeling at the nanoscale; Nanobio/NanoMedicine		
Chairman: João Gomes (CENTI, Portugal)		
09h15-09h30	Alexandra Freidzon (Photochemistry Center, Russian Academy of Sciences, Russia) - Modeling at the nanoscale <i>"Spectral and Transport Parameters of Electron-Transporting Material Bis(10-hydroxybenzo[h]qinolinato)beryllium (Bebq2)"</i>	O
09h30-09h45	Íluri Frias (REQUIMTE / University of Porto, Portugal) - Nanobio/NanoMedicine <i>"Development of lipid nanocarriers-based epigallocatechin gallate for preventive and therapeutic supplementation"</i>	O
09h45-10h00	André Gaspar (Universidade de Coimbra, Portugal) - Nanobio/NanoMedicine <i>"Development of a biodegradable magnetic nanoprobe using SPIONs and Amazonian essential oils"</i>	O
10h00-10h15	Virgínia Gouveia (REQUIMTE / University of Porto, Portugal) - Nanobio/NanoMedicine <i>"pH sensitive liposomes loading prednisolone for the treatment of rheumatoid arthritis"</i>	O
Parallel Session - Seniors - Nanomaterials; Optics/Photonics/Plasmonics; Other		
Chairman: Pedro Costa (Physical Sciences and Engineering Division, Saudi Arabia)		
09h15-09h30	Mousa May (Sebha University, Libya) - Nanomaterials <i>"Effects of γ-Al₂O₃ nanoparticles on the adhesive strength of composite epoxy/sol-gel materials"</i>	O
09h30-09h45	Amaia Soto Beobide (Foundation for Research & Technology-Hellas– Institute of Chemical Engineering Sciences, Greece) – Nanomaterials <i>"Carbon Nanotube reinforced Textiles for Civil Protection Services"</i>	O
09h45-10h00	Xiaoguang Wang (International Iberian Nanotechnology Laboratory (INL), Portugal) – Nanomaterials <i>"Direct Growth of Nickel Phosphoride Nanoneedles on Nickel Foam for Efficient Electrocatalytic Hydrogen Evolution"</i>	O
10h00-10h15	Jana Berit Nieder (INL-International Iberian Nanotechnology Laboratory, Portugal) - Optics/Photonics/Plasmonics <i>"Presentation of the New "Ultrafast Bio- and Nanophotonics" Laboratory at INL"</i>	O
10h15-10h30	Zanna Martinson (Rigas Stradins University, Latvia) – Other <i>"Instrumentation for qualifying and quantifying nanoparticles' exposure into occupational environment"</i>	O
10h30-11h15	Coffee Break - Poster Session & Instrument Exhibition	
Parallel Session - PhD Students - Graphene/Nanotubes; Nanobio/NanoMedicine; Nanoinstrumentation		
Chairman: Sohel Rana (University of Minho, Portugal)		
11h15-11h30	Eunice Cunha (Instituto de Polímeros e Compósitos, Portugal) - Graphene/Nanotubes <i>"Exfoliation of graphite using pyrene and perylene derivatives"</i>	O
11h30-11h45	Choon Ming Seah (Institut Jean Lamour, CNRS-Université de Lorraine, France) - Graphene/Nanotubes <i>"An Improved Wet Chemical Approach For The Separation Of Graphene From Nickel Foil To The Reutilization Of Catalyst"</i>	O
11h45-12h00	José Araújo (REQUIMTE / University of Porto, Portugal) - Nanobio/NanoMedicine <i>"Surpassing NSAIDs side-effects with Lipid Nanoparticles"</i>	O
12h00-12h15	Joana Carrola (University of Aveiro, Portugal) - Nanobio/NanoMedicine <i>"Metabolic effects of silver nanoparticles assessed by NMR metabolomics of mice liver and serum"</i>	O
12h15-12h30	Vitor Gaspar (CICS-UBI - Health Sciences Research Centre, Portugal) - Nanobio/NanoMedicine <i>"Simultaneous Delivery of Drugs and Genes by Multi-block Polymeric Nanomicelles for Synergistic Cancer Therapy"</i>	O
12h30-12h45	Artur Moreira Pinto (LEPABE, Portugal) - Nanobio/NanoMedicine <i>"Effect of biodegradation on PLA/graphene-nanoplatelets composites mechanical properties and biocompatibility"</i>	O
12h45-13h00	Maria Pereira (Universidade de Aveiro, Portugal) – Nanoinstrumentation <i>"Scanning Thermal Microscopy: unraveling and mapping thermal phenomena at the nanoscale"</i>	O

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Parallel Session - PhD Students - Nanomaterials; Optics/Photonics/Plasmonics; Other		
Chairman: Mário Silveirinha (Universidade de Coimbra, Portugal)		
11h15-11h30	José Diogo Costa (International Iberian Nanotechnology Laboratory (INL), Portugal) – Nanomaterials <i>"Nanofabrication of Magnetic Tunnel Junction Pillars Targeting Nano-Oscillator Applications"</i>	O
11h30-11h45	Muhammad Ilyas (Brunel University London, United Kingdom) - Nanomaterials <i>"Use of Nano-Technology and Nanomaterial in the Development of Nanocomposite Cementitious Materials"</i>	O
11h45-12h00	Farzin Mohseni (Universidade de Aveiro, Portugal) – Nanomaterials <i>"Magnetic and morphologic properties of Alnico-based rare-earth free permanent magnets"</i>	O
12h00-12h15	Iaroslav Gnilitzkiy (University of Modena and Reggio Emilia, Italy) - Optics/Photonics/Plasmonics <i>"Strongly anisotropic wetting on highly-uniform self-similar molybdenum nanogrooves"</i>	O
12h15-12h30	Carlos Rosário (Universidade de Aveiro, Portugal) – Other <i>"Resistive switching and impedance spectroscopy in metal-oxide-metal trilayers with SiO₂ and ZrO₂: a comparative study"</i>	O
12h30-12h45	Mohammad Tareqzaman (International Iberian Nanotechnology Laboratory (INL), Portugal) – Other <i>"Large power emission in MTJ based spin torque nano-oscillators using a free layer near the in-plane to out-of plane transition"</i>	O
13h00-14h30	Lunch (not included)	
Plenary Session - Chairman: Vasco Teixeira (University of Minho, Portugal)		
14h30-14h45	Guodong Fu (Southeast University, China) <i>"Preparation of Fluorescent Organometallic Porphyrin Complex Nanogels"</i>	O
14h45-15h00	Yury V. Kolen'ko (International Iberian Nanotechnology Laboratory (INL), Portugal) <i>"p-Type Cu₂O colloids optimized for photoelectrochemistry and electronics"</i>	O
15h00-15h15	Fábio Gabriel Figueiras (IFIMUP-IN Univ. Porto & CICECO Univ. Aveiro, Portugal) <i>"Nanometric Bias Induced Phase Transitions in materials"</i>	O
15h15-15h30	Gema Durán (University of Castilla-La Mancha, Spain) <i>"New approaches in the development of analytical methodologies involving the use of CdSe/ZnS quantum dots"</i>	O
15h30-16h00	João Gomes (CENTI, Portugal) <i>"Optimization of processing and encapsulation conditions of white OLED devices for decorative lighting applications"</i>	K
16h00-16h30	Mário Silveirinha (Universidade de Coimbra, Portugal) <i>"Taming light at the nanoscale with metamaterials"</i>	K
16h30	Closing	

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