TUESDAY – FEBRUARY 16, 2016

08h00-09h00	Registration	
	nanoPT2016 Opening Ceremony - Welcome and Introduction	
09h00-09h15	Manuel Heitor: Minister of Science, Technology and Higher Education of Portugal (Portugal)	
	Lars Montelius: Director General, INL (Portugal)	
	Antonio Correia: President, Phantoms Foundation (Spain)	
	Christoph Gerber (Basel University, Switzerland)	
09h15-09h45	"Pushing the boundaries in personalized healthcare with AFM technology"	ŀ
	Jim Gimzewski (California Nanosystems Institute and UCLA, USA)	
09h45-10h15	"Development of a "Brain-like"Computation system usingAtomic Switch Networks"	ŀ
	Federico Capasso (Harvard Paulson School, USA)	
10h15-10h45	"Metasurfaces: New Frontiers in Structured light and Surface Waves"	ŀ
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10h45-11h15	Coffee Break - Poster Session & Instrument Exhibition	
11h15-11h45	Thomas Laurell (Lund University, Sweden)	ŀ
	"Acoustic seed-trapping enables rapid enrichment and purification of nanovesicles involved extracellular signalling"	
11h45-12h15	Stella W. Pang (City University Hong Kong, China)	ŀ
111140-121110	"Nanofabricated Platforms for Biosensing and Cell Control"	ľ
40-45 40-20	João Gomes (CENTi, Portugal)	
12h15-12h30	"Development of fully bioresponsive printed sensors: exploring the electronic tongue concept for specific analytes"	C
	Maria Sá (Biomark-CINTESIS/ISEP, Portugal)	
12h30-12h45	"Carbon Black modification towards electrochemical biosensors"	C
	Ana-Maria Chiorcea-Paquim (University of Coimbra, Portugal)	
12h45-13h00	"Quadruplex formation between a triazole-acridine conjugate and quanine-containing repeat DNA sequences.	C
121145-151100		
	Atomic force microscopy and voltammetric characterisation"	
13h00-14h30	Cocktail Lunch (offered by nanoPT2016) - Poster Session & Instrument Exhibition	
14h30-15h00	Christophe Vieu (LAAS-CNRS, France)	1
141130-151100	"Investigation of cell mechanics using nanodevices and nano-instruments: some examples"	
45-00 45-00	Inês Pinto (INL, Portugal)	
15h00-15h20	"Cell Dynamics: actomyosin-based force generating systems"	
	Chen-zhong Li (Florida International University, USA)	
15h20-15h40	"Nanoparticle Enhanced Electromagnetic Control of Cancer Cell Development for Nanotheranostics"	
	Mónica López Fanarraga (Universidad de Cantabria, Spain)	
15h40-15h55	"Anti-tumoral effects of MWCNTs in solid melanoma tumor models"	(
15h55-16h15	Lorenzo Pastrana (INL, Portugal)	
	"Nanostructures for food applications"	_
16h15-16h55	Coffee Break - Poster Session & Instrument Exhibition	
16h55-17h15	Dmitri Y. Petrovykh (INL, Portugal)	
101100-171110	"Design and Characterization of DNA and Peptide Biointerfaces"	
	Duarte Miguel Prazeres (iBB, Universidade de Lisboa, Portugal)	
17h15-17h30	"Carbohydrate binding modules as a generic tool to anchor biomolecules and metal nanoparticles"	0
	João Pedro Silva (Center for Biological Engineering, University of Minho, Portugal)	
17h30-17h45	"Antimicrobial peptide delivery from self-assembling Hyaluronic acid Nanoparticles for tuberculosis treatment"	0
	Ana Raquel Madureira (Universidade Católica do Porto, Portugal)	
47-45 40-00		
17h45-18h00	"NanoDairy Project: delivery systems of bioactive polyphenolic compounds to dairy matrices. Evaluation of stability,	(
	bioavailability and toxicity"	
18h00-18h15	Amiram Goldblum (The Hebrew University of Jerusalem, Israel)	(
	"Computational Discovery of Liposomal Drugs: From in silico predictions to in vivo validation"	_
18h15-18h30	Sofia A. Costa Lima (UCIBIO-REQUIMTE, University of Porto, Portugal)	
101113-101130	"Nanostructured Lipid Carriers: a new approach for Psoriasis topical therapy"	(
	Olivier Sandre (LCPO (Univ. Bordeaux / CNRS / Bordeaux-INP), France)	
18h30-18h45	"Iron oxide nanoparticles grafted with thermosensitive polymers and diblock elastin-like peptides studied by in situ	(
	dynamic light backscattering under magnetic hyperthermia"	•
	Manuel Pernia Leal (Bionand (Andalusian Centre for Nanomedicine and Biotechnology), Spain)	
10615 10600		о
18h45-19h00	"Optimization of blood circulating times of magnetic nanoparticles based on the effect of PEG molecular weight	0
	coating and nanoparticle size followed by Magnetic Resonance Imaging"	
19h00-19h30	Brian A. Korgel (UT Austin, USA)	I
	"Silicon and Germanium Nanowires for Lithium and Sodium Ion Batteries"	_
19h30-20h30	Port Wine Tasting	

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	WEDNESDAY – FEBRUARY 17, 2016	
09h00-09h30	Klaus Müllen (Max Planck Institute for Polymer Research, Germany)	к
001100-001100	"How to Make and how to Use Carbon Nanostructures"	
09h30-09h45	Anumol Ashokkumar (INL, Portugal)	ο
09h45-10h00	"Advanced Electron Microscopy Study of GdX ₃ @WS ₂ Nanotubes" Pedro Costa (King Abdullah University of Science and Technology, Saudi Arabia)	
	"Quantifying impurities in Nanocarbons using ICP-OES"	0
	Ladislav Kavan (J. Heyrovsky Institute of Physical Chemistry, Czech Republic)	
10h00-10h15	"Advanced Nanocarbons (Graphene, Nanodiamond and Beyond) as the Electrode Materials in Dye-Sensitized Solar Cells	, O
10h15-10h30	Marketa Zukalova (J. Heyrovsky Institute of Physical Chemistry, ASCR, Czech Republic)	0
10015-10030	"Li (Na) insertion in TiO ₂ polymorphs and their composites with graphene for battery applications"	
10h30-11h00	Coffee Break - Poster Session & Instrument Exhibition	
11h00-11h15	Jose L. Lado (INL, Portugal)	0
	"Large scale calculations of electronic structure of 2D Crystals"	-
11h15-11h30	Noel A. García-Martínez (INL, Portugal)	0
	"Hyperfine interaction in hydrogenated graphene"	
11h30-11h45	Alok Shukla (Indian Institute of Technology, India) "Theory of Electronic Structure and Optical Properties of Graphene Nanodisks"	0
	Bora Karasulu (Eindhoven University of Technology (TU/e), The Netherlands)	
11h45-12h00	"Atomic-Scale Simulations of High-K Dielectrics Deposition on Graphene"	ο
12h00-12h30	Nuno Peres (University of Minho, Portugal)	к
121100-121130	"Basic Notions in Graphene Plasmonics"	<u> </u>
12h30-13h00	Rodolfo Miranda (IMDEA Nanociencia, Spain)	к
	"Tailoring graphene for spintronics"	
13h00-14h30	Lunch	
14h30-14h50	Eduardo Castro (IST, Portugal) "Phases with non-trivial topology in graphene and transition metal dichalcogenides"	I.
-	Tatyana Makarova (LUT, Finland)	
14h50-15h10	"Tabby graphene: realization of zigzag edge states at the interfaces"	I
15h10-15h30	Pablo San José (ICMM-CSIC, Spain)	
131110-131130	"Majorana Zero Modes in Graphene"	
15h30-16h30	Poster Session	
16h30-17h00	Coffee Break	
17h00-19h24	PARALLEL SESSION I PARALLEL SESSION II	
21h00	Conference Dinner	
	PARALLEL SESSION I	

17h00-17h12	Bruno Amorim (University of Minho, Portugal) "Vertical current in graphene – insulator/semiconductor – graphene structures"	0
17h12-17h24	Liliana Carneiro (BioMark/CINTESIS/ISEP, Portugal) "Functionalization of Single-Walled Carbon Nanohoms for Biosensor Applications"	0
17h24-17h36	Eunice Cunha (University of Minho, Portugal) "Non-covalent extoliation of graphite in aqueous suspension for nanocomposite production with waterborne polyurethane"	0
17h36-17h48	George Luiz Machado Junior (INL, Portugal) "A comparison of graphene electrochemical sensors and electrolyte-gated field-effect transistors as label-free immunosensors"	0
17h48-18h00	João Albuquerque (ICETA/UCIBIO/REQUIMTE/FFUP, Portugal) "Multifunctional Solid Lipid Nanoparticles: a targeted approach for Rheumatoid Arthritis with theranostic applications"	0
18h00-18h12	Ana Rita Cardoso (BioMark/CINTESIS-ISEP, Portugal) "Immune response for Malaria detected by novel and a simple biosensing approach"	0
18h12-18h24	Ernest Moles Meler (Institute for Bioengineering of Catalonia, Spain) "Immunoliposome-mediated drug delivery to Plasmodium-infected and non-infected red blood cells as a dual therapeutic/prophylactic antimalarial strategy"	0
18h24-18h36	Ana Rita O. Rodrigues (University of Minho, Portugal) "Magnetoliposomes based on manganese ferrite nanoparticles as nanocarriers for antitumor drugs"	0
18h36-18h48	Liliana Truta (BioMark-CINTESIS/ISEP, Portugal) "The potential of artificial antibodies as biosensing devices for monitoring the Interleukin 2 cancer biomarker"	0
18h48-19h00	Carolina Hora (Biomark-CINTESIS/ISEP, Portugal) "Development of an autonomous electrical biosensing device for a colon-rectal cancer protein marker"	0
19h00-19h12	Noelia Guldris (INL, Portugal) "Ultrasmall Doped Iron Oxide Nanoparticles as Dual T_1 - T_2 Contrast Agents for MRI"	0

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	PARALLEL SESSION II	
17h00-17h12	Nádia S. Ferreira (BioMark-CINTESIS/ISEP, Portugal) "Carbon Black modification for polymer anchoring targeting fuel cell powered biosensors"	ο
17h12-17h24	Catarina B. Marques (Universidade Nova de Lisboa, Portugal)	0
17h24-17h36	"V ₂ O ₅ thin film for high sensitivity flexible and transparent thermal sensors" Juliana Marques (Universy of Minho, Portugal)	0
17h36-17h48	"Advanced Photocatalytic Heterostructered Materials for the Controlled Release of Active Compounds upon Solar Activation" Gabriela Martins (Biomark-CINTESIS/ISEP, Portugal)	0
	"Chip-on-Paper for sensoring 8-hydroxy-2'-deoxyguanosine (8-OHdG) oxidative stress biomarker in point-of-care" Lluís Pascual i Vidal (Universitat Politécnica de València - IDM, Spain)	
17h48-18h00	"DNA-gated material as simultaneous drug delivery and radioimaging tool" Tânia V. Pinto (REQUIMTE/LAQV, Universidade do Porto, Portugal)	0
18h00-18h12	"Photoswitchable silica nanoparticles for the production of light responsive smart textiles: from fabrication to coating technology"	0
18h12-18h24	Ana Filipa Soares Pires (FCT, Universidade Nova de Lisboa, Portugal) "Catechins: a powerful weapon against oxidative stress and DNA lesions"	0
18h24-18h36	Nan Guan (Institut d'Electronique Fondamentale,Université Paris-Saclay, France) "Flexible White Light-Emitting Diodes Based on Vertical Nitride Nanowires and micro-size phosphors"	0
18h36-18h48	Bruno M.S. Teixeira (University of Aveiro, Portugal) "Effect of spin reorientation transition in NdCo ₃ /Fe bilayers"	0
18h48-19h00	Enrico Domenico Lemma (Istituto Italiano di Tecnologia & Università del Salento, Italy) "Static and Dynamic Mechanical Characterization of Two-photon Lithography Photoresists"	0
19h00-19h12	Jennifer P. Teixeira (I3N, University of Aveiro, Portugal)	0
	"Evaluation of CdS and Zn _x Sn _y O _z buffer layers in CIGS solar cells"	
	THURSDAY – FEBRUARY 18, 2016 Francisco Jorge Caldeira (CiiEM ISCSEM, Portugal)	
09h15-09h30	"Inhibitors Design for matrix metalloproteinase's A molecular view for Dental Restoration"	0
09h30-09h45	Jose Miguel Garcia-Martin (CSIC/IMM, Spain) "Nanostructured biocompatible coatings to prevent implant infections"	0
09h45-10h00	Daniela Ribeiro (ICETA/UCIBIO/REQUIMTE/FFUP, Portugal) "Biophysical Properties of Model Membranes under the Effect of Daunorubicin"	0
10h00-10h15	Ian A. Nicholls (Linnaeus University/Uppsala University, Sweden) "Hierarchical materials: rational design and application in sensing and biomaterials development"	0
10h15-10h30	Valery Pavlov (CIC BiomaGUNE, Spain) "Teaching enzymes to generate and etch semiconductor nanoparticles"	0
10h30-11h00	James Alexander Liddle (NIST, USA)	к
11h00-11h30	"Nanofabrication: From DNA-Directed Assembly to Volume Nanomanufacturing" Coffee Break	
11h30-12h30	Poster Session	
12h30-12h45	Sofia Azevedo (GPPQ - Portuguese Framework Promotion Office, Portugal) & Carlos Pereira (FCT, Portugal). "H2020 and ERA-Nets funding opportunities"	0
12h45-13h00	Pieter De Beule (INL, Portugal) "Novel imaging devices for optical and mechanical characterization of supported lipid bilayers at the nanoscale"	0
13h00-13h15	Carmen Pettersson (JPK Instruments AG, Germany) "Easy-to-Use High-Spatial and High-Temporal Atomic Force Microscopy Simultaneous to Advanced Optical Microscopy"	0
13h15-13h30	Bernardo Pires (INESC-MN, Portugal)	0
13h30-13h45	"High Precision Methodology Control for Nano MTJ Fabrication Process up to 150 mm Wafers" Eric Pellegrin (CELLS-ALBA / Experiments Division, Spain)	0
13h45-15h15	"The ALBA Synchrotron Licht Source: A Tool for Nanoscience"	0
	Patrik Bjöörn (Insplorion AB, Sweden)	_
15h15-15h30	"Plasmonic Sensing Technology for Nanomaterial Studies"	0
15h30-15h45	Adi Salomon (Bar-Ilan University, Israel) "Strong Coupling in Plasmonic systems and their Interaction with Molecules"	0
15h45-16h00	Yossi Paltiel (The Hebrew University of Jerusalem, Israel) "Chiral-molecules based simple spin devices"	0
16h00-16h20	Ricardo Ferreira (INL, Portugal) "Magnetoresistive Sensors aiming room temperature detection of biomagnetic fields"	I
16h20-16h50	Niek van Hulst (ICFO, Spain) "NanoPhotonics: ultrafast control of nanoparticles, nanoantennas and single quantum emitters"	к

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16h50-17h20	Andres Castellanos-Gomez (IMDEA Nanoscience, Spain)	к
	"2D Semiconductors for Optoelectronics Applications"	
17h20-17h40	Choon-Gi Choi (Electronics and Telecommunications Research Institute (ETRI), Korea) "Extraordinary optical properties of visible and terahertz metamaterials"	Т
17h40-18h15	Coffee Break - Poster Session & Instrument Exhibition	
18h15-19h00	START-UPS Session	
	FRIDAY – FEBRUARY 19, 2016	
09h00-09h15	Bergoi Ibarlucea (TU Dresden/Institute for Material Science, Germany)	0
031100-031113	"Honeycomb-nanowire field-effect transistors for bacterial activity determination in non-diluted growth media"	
	Wei Li (INL, Portugal)	-
09h15-09h30	"Cobalt nickel phosphide nanowires on the nickel foam as an highly efficient and ultrastable bifunctional catalyst for	0
	overall water splitting" Sascha Sadewasser (INL, Portugal)	
09h30-09h45	"Growth of CulnSe ₂ nanowires by molecular beam epitaxy without external catalyst"	0
	Lars Samuelson (Lund University, Sweden)	
09h45-10h15	"From basic Nanowire research to real-world applications"	К
10h15-10h45	Coffee Break - Poster Session & Instrument Exhibition	
	Gabi Grützner (micro resist technology GmbH, Germany)	
10h45-11h15	"Material Innovations Enabling Advanced Nanofabrication for Lab to Fab Application"	к
	Francisco Rivadulla Fernández (University of Santiago de Compostela, Spain)	
11h15-11h45	"Fabrication of high-quality epitaxial thin-films of functional oxides by a chemical solution method"	К
11h45-12h00	Joana Loureiro (UNINOVA, Portugal)	0
11145-121100	"Thermoelectric properties optimization of nc-Si:H thin films deposited by PECVD"	0
12h00-12h15	Cláudia G. Silva (Laboratório Assocado LSRE-LCM, Portugal)	о
121100-121115	"Au/ZnO nanostructures for photocatalytic applications"	<u> </u>
12h15-12h45	Helmut Schift (Paul Scherrer Institut (PSI), Switzerland)	к
	"Patterning of DLC leaky waveguide sensors using nanoimprint lithography"	
12h45-13h00	Miguel Ribeiro (CeNTI - Centre for Nanotechnology and Smart Materials, Portugal)	ο
421-00 441-20	"Large area, flexible electrochromic displays based on novel electroactive polymers"	
13h00-14h30	Francesc Pérez-Murano (IMB-CNM/CSIC, Spain)	
14h30-15h00	"Directed self-assembly of block co-polymers: chemical guiding patterns and advanced nanometer-scale characterization"	К
	Juan Gallo (INL, Portugal)	
15h00-15h15	"Tuning the relaxation rates of dual mode T_1/T_2 nanoparticle contrast agents: a study into the ideal system"	0
	María Luz Rodríguez Méndez (Universidad de Valladolid, Spain)	
15h15-15h30	"Antioxidants detection with nanostructured electrochemical sensors"	0
15620 15645	Laura M. Salonen (INL, Portugal)	~
15h30-15h45	"Covalent Organic Frameworks for the Capture of Waterborne Toxins"	0
15h45-16h00	Carla Silva (CeNTI - Centre for Nanotechnology and Smart Materials, Portugal)	0
131143-101100	"Development of fibers and textiles structures for energy harvesting and storage"	0
16h00-16h15	Xiaoguang Wang (INL, Portugal)	
	"Facile construction of 3D integrated nickel phosphide composite as wide pH-tolerant electrode for hydrogen	0
	evolution reaction"	
16h15-16h45	Michel Despont (CSEM, Switzerland) "MEMS are a watch's best friend"	к
10-45		
16h45	Closing remarks and nanoPT2017 announcement	



