

General Scientific Workshop and Final Review Meeting
10 - 12th October 2016, Aveiro, Portugal

Monday, October 10th

HINT - General Scientific Workshop and Final Review Meeting 2016		
Monday, October 10th, 2016		
9h00	9h30	Registration
9h30	10h45	Review Meeting - 1st part
10h45	11h15	Coffee Break
11h15	12h30	Review Meeting - 2nd Part
12h30	14h00	Lunch
14h00	16h00	Oral presentations - Research for sustainable energy: catalysis, energy storage & conversion, solar cells, fuel cells, electrochromism, photochromism, thermochromism, batteries, micro-batteries
	14h00 14h20	O-01 - Strategic design of photoactive II-conjugated organic-inorganic hybrid polymeric materials for energy applications - R. Evans
	14h20 14h40	O-02 - Experimental and computational studies in the CO ₂ /CH ₄ separation: the case of amine modified periodic mesoporous organosilicas - M. Lourenço
	14h40 15h00	O-03 - Hybrid inorganic-organic materials made of thermo or photoswitchable molecules - A. Ghosh
	15h00 15h20	O-04 - Heteronuclear nanoparticles supported hydrotalcites containing Ni(II) and Fe(III) stable photocatalysts - L. Seleenmary Sobhanadhas
	15h20 15h40	O-05 - Insertion grafting reaction in hybrid organic-inorganic solids: a tremendous potential for multifunctional superstructures - P. Rabu
	15h40 16h00	O-06 - Photoresponsive templates for porous sol-gel materials - J. Houston
16h00	17h00	Coffee break + Posters
17h00	19h00	Oral Presentations - Biomedical & health and bio-related applications (imaging, encapsulation, drug delivery, biosensors, controlled release)
	17h00 17h20	O-07 - Multifunctional nanoparticles for tracking and imaging with potential applications in radiotherapy - M.-H. Delville
	17h20 17h40	O-08 - Coating mesoporous silica nanoparticles with polydopamine-like polymers and their use for drug delivery systems - D. Ruiz-Molina
	17h40 18h00	O-09 - Bio-screening of protein coated SPIONs: in-vitro and in-vivo by the C.elegans model - A. Roig
	18h00 18h20	O-10 - Photocatalytic TiO ₂ nanoparticles for tumor therapy - S. Koch
	18h20 18h40	O-11 - Core-shell foams at the interface with environmental and biological systems - F. Fernandes
	18h40 19h00	O-12 - Aescin inclusion into native β- and γ-cyclodextrins: characterization and application - A. Ramos

Tuesday, October 11th

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09:00	10h40	Oral Presentations - Nanostructured materials: reinforced 3D structures, smart composites, self-healing, physical properties
	9h00 - 9h20	O-13 - Collaborations with HINT-COST partners using EPR technique for in-situ characterization of structure and dynamics of hybrid interfaces - M. F. Ottaviani
	9h20 - 9h40	O-14 - Effect of confinement and molecular architecture on interfacial dynamics - K. Chrissopoulou
	9h40 - 10h00	O-15 - Soft chemistry control of inorganic-organic interfaces - R. Scotti
	10h00 - 10h20	O-16 - Surface influence on the electronic and vibrational properties of nanostructures - J. Makowska-Janusik
	10h20 - 10h40	O-17 - Engineering functional nanomaterials and interfaces by pulsed laser synthesis - G. Sliwinski
10h40	11h00	Coffee break
11h00	12h00	Oral Presentations - Nanostructured materials: Protective and functional coatings, surface treatment, bioceramics biocomposites and membranes
	11h00 - 11h20	O-18 - Protective transparent coatings composed of cellulose nanofibers cross-linked with borate ions - G. Salazar-Alvarez
	11h20 - 11h40	O-19 - Tuning the nanocellulose-borate Interaction to achieve highly flame retardant hybrid materials - B. Wicklein
	11h40 - 12h00	O-20 - Conductive clay-graphene nanoplatelet composites - E. Ruiz-Hitzky
12:00	12h40	Invited Talk - The roadmap for a multifunctional platform: compact and porous hybrid silica nanoparticles - C. Baleizão
12h40	14h10	Lunch
14h10	15h50	Oral Presentations - Nanostructured materials: Protective and functional coatings, surface treatments, composites and membranes
	14h10 - 14h30	O-21 - Thiol-functionalized silsesquioxanes as fillers for polybutadiene-based nanocomposites - S. Dire
	14h30 - 14h50	O-22 - Organic-inorganic hybrid sol-gel coatings for corrosion mitigation - R. Figueira
	14h50 - 15h10	O-23 - Effect of Cu(II) and Zn(II) ions on the biological activity of a novel benzofurazan-cyclam conjugate - I. Grabchev
	15h10 - 15h30	O-24 - Computational techniques for investigating how hybrid dendrimer nanoparticle affect amyloid $\alpha\beta$ 1-40 aggregation in presence of copper ions - G. Grasso
	15h30 - 15h50	O-25 - N-heterocyclic carbenes protected gold nanoparticles - F. Ribot
15:50	16h00	Coffee break
16h00	23h00	Social Program - Vista Alegre

Wednesday, October 12th

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Wednesday, October 12th, 2016			
9h00	11h00		Oral Presentations - Nanostructured materials: reinforced 3D structures, smart composites, self-healing, physical properties
		9h00	9h20
		9h20	9h40
		9h40	10h00
		10h00	10h20
		10h20	10h40
			O-26 - Fabrication and investigations of hybrid biomaterials composed of nanocrystalline carbonated hydroxyapatite (cHAP) with polylactic acid (PLA) and bioactive glass with polymethylmethacrylate (PMMA) - E. Garskaite
			O-27 - New insights into the photocatalytic properties of RuO ₂ /TiO ₂ mesoporous heterostructures for hydrogen production and organic pollutant photodecomposition - T.Toupance
			O-28 - Structure of hybrid materials involving boronates and benzoxaborolates : combination of solid state NMR and DFT calculations - C. Gervais
			O-29 - Flexible ferroelectric hybrid fibers for soft body shape sensing - T. Sebastian
			O-30 - Porous ionosilicas for drug removal in wastewater treatment - P. Hesemann
10h40	11h00		Closing remarks
11h00	11h30		Coffee break
11h30	13h00		Management Committee
13h00	14h30		Lunch

Poster Session - Monday, 10th October

P-01 - Influence of film stabilization methods on silk fibroin molecular assembling and structural conformation – E. Callone

P-02 - EPR characterization of the hybrid interface between dendrimeric macromolecules, working as drug or gene carriers, and Cu (II) ions – M. Cangiotti

P-03 - Macroporous carbon/silica materials for removal of aromatic pollutants – M. Darder

P-04 - Design and characterisation of polymer-ceramic fibre interphase in hybrid materials for ultrasonic application – T. Lusiola

P-05 - Extraction and characterization of natural pigments used as dyes for dye sensitized solar cells (DSSC) – A. Fattori

P-06 - Inclusion of pharmaceuticals into cyclodextrins by mechanochemistry – S.S. Braga

P-07 - Thermal-mechanical properties of ureasilicate matrix based organic-inorganic gels doped with carbon nanofibers - C. Silva

P-08 - Preparation of CH₃NH₃PbI₃ perovskite materials by ultrasonic spray method – C. Kvarnström