PROGRAM MFS2013

Tuesday 17th September 2013

15:00 – 16:00	REGISTRATION
16:00 – 16:30	OPENING CEREMONY (Eutyches Auditorium) Session Chairs: Jordi Fraxedas / Jordi Arbiol
16:30 – 17:30	Dan Shechtman (Nobel Laureate Chemistry 2011) (#169) Technion – Israel Institute of Technology & ISU, Ames (USA) Quasi-Periodic Materials - Crystal Redifined
17:30 – 18:00	Georg Schitter (#145) Automation and Control Institute, TU Wien Mechatronics and Instrumentation for High-Speed High- Resolution Imaging Systems
18:00 – 18:30	Marisa Martín-Fernández (#84) Central Laser Facility Rutherford Appleton Laboratory Multicolour Single Molecule Imaging of the ErbB Family of Receptor Tyrosine Kinases in Cells
18:30 – 20:00	COCKTAIL (SPONSORED by MONOCOMP) & EXHIBITION

Wednesday 18th September 2013

Session MS1 (Eutyches Auditorium)

Materials Science: Semiconductor Materials and Alloys

Session Chair: Paula Vilarinho

09:00 – 09:15	LI. López-Conesa (#52) LENS – MIND/IN2UB, Universitat de Barcelona Si-Based Photonic and Photovoltaic Devices: a Low-Loss EELS Analysis
09:15 – 09:30	R. Zamani (#90) Institut de Ciència de Materials de Barcelona, ICMAB-CSIC Structure Study of Complex Ternary and Quaternary Copper-Selenide Based Nanocrystals for Thermoelectrics
09:30 – 09:45	M. de la Mata (#79) Institut de Ciència de Materials de Barcelona, ICMAB-CSIC STEM Tools for Atomic Polarity Assignment in Semiconductor Nanostructures

09:45 – 10:00	R. Félix (#37) Universidad de Cádiz Complete Characterization by Imaging and Measuring TDs in Hexagonal Semiconductors
10:00 – 10:15	A. Eljarrat (#28) LENS – MIND/IN2UB, Universitat de Barcelona Plasmon Mapping for the Analysis of III-V Nitride Distributed Bragg Reflectors
10:15 – 10:30	R. Santamarta (#75) Universitat de les Illes Balears Study of the Crystal Structure of Precipitates in Ni-Rich Ni-Ti-X (X=Hf,Zr) Shape Memory Alloys
10:30 – 10:45	J. Pons (#76) Universitat de les Illes Balears Characterization of Precipitates in Ni-Rich Ni-Ti-X (X=Hf, Zr) Shape Memory Alloys

Session LS1 (Medusa Lounge)

Life Sciences: Macromolecular structure

Session Chair: Leah Gheber

09:00 – 09:30	Jose María Valpuesta (#168) Centro Nacional de Biotecnología, CSIC Structural characterisation of the chaperone Hsp70 folding network
09:30 – 09:50	M. Serna (#49) Centro Nacional de Biotecnología, CSIC Structural analysis of tubulin binding cofactor complex between TBCE, TBCB and α-tubulin by electron microscopy and image processing
09:50 – 10:10	S. Alvira (#40) Centro Nacional de Biotecnología, CSIC Structural characterization of the folding complex formed by chaperones Hsp90 and Hsp70 and their cochaperone Hop
10:10 – 10:30	J. Cuéllar (#41) Centro Nacional de Biotecnología, CSIC Structures of the Gβ-CCT and PhLP1-Gβ-CCT complexes reveal a molecular mechanism for G protein β subunit and βγ dimer assembly
10:30 – 10:50	M. Valle (#11) CICbioGUNE Capturing working conformations for Pyruvate Carboxylase by cryoEM and sorting

Joint Activity

10:45 – 11:15	COFFEE BREAK & EXHIBITION (HALL)
11:15 – 13:15	VISIT TOUR TO THE ROMAN CITY (TARRACO)
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13:15 – 15:00	LUNCH (not included)

Session MS2 (Eutyches Auditorium)

Materials Science: Magnetic Materials

Session Chair: Paulo Ferreira

15:00 – 15:30	César Magén (#62) INA-LMA, Universidad de Zaragoza Imaging Nanoscale Magnetization States by in-Situ Lorentz Microscopy and Electron Holography
15:30 – 15:45	A. Elkayam (#29) Ben-Gurion University of the Negev Structure of Epitaxial L1₀-FePt/MgO Perpendicular Magnetic Tunnel Junctions
15:45 – 16:00	L. A. Rodríguez (#50) INA-LMA, Universidad de Zaragoza Observation of the Suppression of Ferromagnetism in Strained Manganite Thin Films by Cryo-Electron Holography
16:00 – 16:15	J. M. Rebled (#53) ICMAB-CSIC and LENS – MIND/IN2UB, Universitat de Barcelona Transmission Electron Microscopy Characterization on (001) Textured CoFe ₂ O ₄ Thin Films Grown on Buffered MgAl ₂ O ₄ and SrTiO ₃ Substrates
16:15 – 16:30	B. Galiana (#69) Universidad Carlos III de Madrid TEM Characterization of Fe-B Nanoparticles Formed by Gas Aggregation

Session LS2 (Medusa Lounge)

Life Sciences: Cellular imaging

Session Chair: Mikel Valle

15:00 – 15:30	Leah Gheber (#146) Ben-Gurion University of the Negev Regulation of Directionality and Function of Mitotic Kinesin-5 Motors
15:30 – 15:50	S.I. Vieira (#129) University of Aveiro APP and G(alpha)O in neuronal-like migration
15:50 – 16:10	O.A.B. da Cruz e Silva (#132) Universidade de Aveiro The molecular basis underlying actin network remodelling
16:10 – 16:30	J. de D. Alché (#162) EEZ-CSIC Imaging of living pollen tubes across in vitro germination as a tool to analyze pollen physiology and performance

Joint Session J1 (Eutyches Auditorium) Technical

Session Chair: Judith Oró

16:30 – 16:45	D. Delille (#XXX) FEI Last Developments in UHR S/TEM
16:45 – 17:00	LO. Kautschor (#83) Carl Zeiss Microscopy Helium Ion Microscopy – Advancements from 0.35 nm Imaging to sub 10 nm Nanopattering
17:00 – 17:30	COFFEE BREAK & EXHIBITION (HALL)

Session MS3 (Eutyches Auditorium)

Materials Science: Nanoparticles & Nanotubes

Session Chair: Belén Ballesteros

17:30 – 17:45	E. Ariza (#88) SEMAT/UM, Universidade do Minho Electron Microscopy Study of Perovskite Nanoparticles
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17:45 – 18:00	R. Fernández-Pacheco (#21) INA-LMA, Universidad de Zaragoza Electron Microscopy Characterisation of Bio-Magnetic Nanospheres
18:00 – 18:15	E. Pach (#110) CIN2 (ICN-CSIC), Catalan Institute of Nanotechnology Electron Microscopy Investigation of Filled and Functionalized Carbon Nanotubes
18:15 – 18:30	R. Arenal (#60) INA-LMA, Universidad de Zaragoza Atomic Spectroscopic and Structural Studies on Nitrogen Doped Single-Walled Carbon Nanotubes
18:30 – 18:45	Paula M. Vilarinho (#108) CICECO, University of Aveiro A microscopy study of BaTiO ₃ / MultiWall Carbon Nanotubes
18:45 – 19:00	A. Dias (#155) Universidade Federal de Ouro Preto, Campus Morro do Cruzeiro Incipient Crystallization of Electroceramics Under Microwaves Probed by Transmission Electron Microscopy

Session LS3 (Medusa Lounge)

Life Sciences: Ultrastructure

Session Chair: José M. Valpuesta

17:30 – 18:00	Ilan Hammel (#167) Tel Aviv University The Quantal basis for secretory granule formation and secretion
18:00 – 18:20	J. Seras-Franzoso (#120) Universitat Autònoma de Barcelona Structural and ultrastructural approaches to elucidate the interaction between bacterial inclusion bodies and mammalian cells
18:20 – 18:40	N. Rodrigues (#99) University of Aveiro Potential anti-inflamatory effects of Artemisia gorgonum on rat liver injury induced by CCl ₄
18:40 – 19:00	Liliana T. Cangueiro (#92) University of Lisbon Femtosecond laser ablation of bovine cortical bone

Session J2 (Medusa Lounge)

Materials Science: Nanoparticles & Nanotubes

Session Chair: Jordi Fraxedas

19:00 – 19:30	A. Casares Carl Zeiss Microscopy New applications in X-Ray Microscopy
19:30 – 20:30	COCKTAIL (SPONSORED by ZEISS) & EXHIBITION (HALL)
19:30 – 20:30	POSTER SESSION A (see page 12)

Thursday 19th September 2013

Session MS4 (Eutyches Auditorium)

Materials Science: Ceramic Materials

Session Chair: Jaume Pons

09:00 – 09:30	Gil Markovich (#115) Tel-Aviv University Electron Microscopy Studies of Nanoscale Ferroelectricity: Does a Single Domain Ferroelectric Particle Exist?	
09:30 – 09:45	M. L. Ruiz-González (#38) Universidad Complutense CEI Moncloa Isolated Extended Defects Studied with Atomic Resolution	
09:45 – 10:00	A. M. R. Senos (#121) CICECO, University of Aveiro Microstructure Evaluation of the Constrained Sintering Effects in BaLa ₄ Ti ₄ O ₁₅	
10:00 – 10:15	J. Resende (#42) CICECO, University of Aveiro On the Properties of Layered Strontium Titanate Ceramics: Microstructural Dependence	
10:15 – 10:30	A. R. Landa-Cánovas (#71) Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC Order-Disorder in the Sb _x V _{1-x} O ₂ (0 <x<0.5) solid="" solution<="" th=""></x<0.5)>	

10:30 – 10:45	J. Gàzquez (#152) Institut de Ciència de Materials de Barcelona (ICMAB-CSIC) Origins and Control of a Complex Point Defect in YBa ₂ Cu ₃ O _{7-x}
10:45 – 11:30	COFFEE BREAK & EXHIBITION (HALL)

Session LS4 (Medusa Lounge)

Life Sciences: Cellular organization

Session Chair: Eyal Shimoni

09:00 – 09:30	Carmen López-Iglesias (#156) CCiT, Universitat de Barcelona The Last Advances in Electron Microscopy for Structural Biology and In Situ Molecular Recognition	
09:30 – 09:50	F. Marques (#73) Instituto Superior Técnico, Campus Tecnológico e Nuclear Novel Pathways for Anticancer Therapy: the Role of Golgi network in the mechanism of cell death of organometallic complexes	
09:50 – 10:10	A. Fernández (#98) Instituto de Ciencia de Materiales de Sevilla, CSIC Location study of gold NPs in bivalve tissues by STEM mode in a SEM-FEG microscope	
10:10 – 10:30	F. F. Vale (#97) Universidade de Lisboa Induction study for the isolation of Helicobacter pylori phages	
10:30 – 10:50	A. Sánchez-Chardi (Poster #122) Universitat Autònoma de Barcelona Interaction between bladder tumor cells and Mycobacterium brumae or BCG by using electron microscopy	
10:50 – 11:30	COFFEE BREAK & EXHIBITION (HALL)	

Session MS5 (Eutyches Auditorium)

Materials Science: Surfaces and Thin films

Session Chair: Ana M.R. Senos

11:30 – 11:45	A. Verdaguer (#65) Centre d' Investigació en Nanociència i Nanotecnologia, CIN2 Amplitude-Modulation AFM-Derived Heights in Air: How High is High?
11:45 – 12:00	J. J. Segura (#126) Ecole Polytechnique Fédérale de Lausanne, EPFL Molecular Ordering of Ionic Liquids at Solid Interfaces
12:00 – 12:15	S. Skiadopoulou (#61) CICECO, Department of Materials and Ceramic Engineering, University of Aveiro Microscopic Study of Multiferroic Bismuth Ferrite Porous Thin Films
12:15 – 12:30	P. A. Carvalho (#107) ICEMS, Instituto Superior Técnico Self-Lubricant Behavior of Copper-Carbon Nanocomposites: an Electron Microscopy and Atomic Force Microscopy Study
12:30 – 12:45	J. B. Rodríguez-González (#127) CACTI, Vigo University Characterization of Textured FeCoCu Nanowires
12:45 – 13:00	O. Tunçkan (#94) Faculty of Aeronautics and Space Sciences, Anadolu University, İki Eylul Campus SEM and TEM Characterization of Si ₃ N ₄ -Superalloy Joints
13:00 – 14:45	LUNCH (not included)

Session LS5 (Medusa Lounge)

Life Sciences: New and improved methods

Session Chair: Ishi Talmon

11:30 – 11:45	J. Vargas (#74) Centro Nacional de Biotecnología, CSIC The use of the spiral phase transform in 3DEM
11:45 – 12:00	J. Nebesarova (#89) Biology Center of ASCR New options of multiple immunolabeling in high resolution SEM

12:00 – 12:15	S. G. Wolf (#170) Weizmann Institute of Science Tomography of frozen hydrated cells by cryo-scanning transmission electron microscopy		
12:15 – 12:30	J. Llinares (#12) Polytechnic University of Valencia Influence of axial asymmetry in measurement of tip radius from AFM images		
12:30 – 12:45	P. Nolasco (#135) University of Lisbon Mean X-ray attenuation of salivary calculi computed from microtomography data		
12:45 – 14:45	LUNCH (not included)		

Session MS6 (Eutyches Auditorium)

Materials Science: Catalytic Materials

Session Chair: Jose J. Calvino

14:45 – 15:15	Paulo Ferreira (#158) The University of Texas at Austin Behavior of Pt and Pt₃Co Nanoparticles in PEM Fuel Cells Observed by High-Resolution TEM, Aberration-Corrected STEM and In-situ TEM	
15:15 – 15:30	F.J. García-García (#178) ICTS-Centro Nacional de Microscopía Electrónica, UCM On the Complex Crystal Chemistry and Catalytic Properties in the System BaFeO ₃₋₅ , $0 \le \delta \le 0.5$	
15:30 – 15:45	J.C. Hernández-Garrido (#25) Universidad de Cádiz Unveiling the Final Surface Structure of a Co ₃ O ₄ /La-Modified-CeO ₂ Washcoated Monolithic Catalyst by Combining Electrons and Ions: a (S)TEM-FIB Microscopy Application	
15:45 – 16:00	M. Tinoco (#9) Universidad de Cádiz STEM Characterisation of CeO ₂ -MgO Catalysts	
16:00 – 16:15	A. Mayoral (#22) INA-LMA, Universidad de Zaragoza Aberration Corrected Scanning Transmission Electron Microscopy Applied to Ordered Porous Structures	

16:15 – 16:30	D.C. Arias-Duque (#36) Universidad de Cádiz (S)TEM Investigation of Novel, Low Lanthanide Content and Noble Metal Free, CeO ₂ /Yttria-Stabilized-Zirconia Nanostructured Catalysts with Outstanding Oxygen Storage Capacity
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Session LS6 (Medusa Lounge)

Life Sciences: Cellular imaging by soft X-rays

Session Chair: José L. Carrascosa

15:00 – 15:30	Andrea Sorrentino (#163) ALBA Synchrotron Light Facility Transmission soft X-ray cryo microscopy: how and what we can do in cellular imaging
15:30 – 15:50	F.J. Chichón (#19) Centro Nacional de Biotecnología, CSIC Vaccinia virus (VACV) development inside cells by soft X-ray tomographic reconstruction
15:50 – 16:10	M. Serna (#46) Centro Nacional de Biotecnología, CSIC Ciliogenesis in ependymal cells
16:10 – 16:30	M. Chiappi (#18) Centro Nacional de Biotecnología, CSIC Qualitative and quantitative analysis of Fe magnetic nanoparticles designed for antitumoral therapy

Joint Session J3 (Eutyches Auditorium)

Advancements in Microscopy Techniques

Session Chair: Francesca Peiró

16:30 – 16:45	L. Yedra (#31) CCiT and LENS – MIND/IN2UB, Universitat de Barcelona EELS Tomography: Characterization of Self-Assembled Nanostructures in Four Dimensions
16:45 – 17:00	S. Estradé (#10) CCiT and LENS – MIND/IN2UB, Universitat de Barcelona Electron Energy Loss Spectroscopy Combined with Beam Precession in the TEM

17:00 – 17:15	E. Bailo (#16) WITec GmbH Characterization of Multi-Component Materials on the Sub-Micrometer Scale	
17:15 – 17:30	A. C. Robins Fischione Using ions to prepare samples for electron microscopy	
17:30 – 18:00	COFFEE BREAK & EXHIBITION (HALL)	
18:00 – 18:15	Presentation ICTS Electron Microscopy (R. Ibarra/J.M. González-Calbet)	
18:15 – 19:00	SME GENERAL ASSEMBLY (Sala Eutyches)	
19:00 – 20:00	POSTER SESSION B (see page 16) & EXHIBITION (HALL)	
21:00 – 24:00	CONFERENCE DINNER	

Friday 20th September 2013

SME Best PhD Thesis Awards 2011-2012: (Eutyches Auditorium)

Session Chairs: Juan José Calvino / Jose L. Carrascosa

09:00 – 09:15	Patricia Abellán (MS) (#XXX) Institut de Ciència de Materials de Barcelona, ICMAB-CSIC Interfacial Structure and Microstructural Evolution of Solution- Derived Dissimilar Oxide Nanostructures. Implications on Their Functional Properties	PhD Award
09:15 – 09:30	Juan David Rejón (LS) (#180) Estación Experimental del Zaidín (EEZ-CSIC) Characterization of Esterase Enzymes Involved in Pollen-Pistil Interaction in the Olive Tree (Olea Europaea L.)	PhD Award

Joint Session J4: (Eutyches Auditorium)

Advancements in Microscopy Techniques

Session Chair: Albert Verdaguer

09:30 - 10:00	Lucía Aballe (#159) ALBA Synchrotron Light Facility X-Ray Microscopes At ALBA: TXM and XPEEM

10:00 – 10:30	Ishi Talmon (#114) Technion – Israel Institute of Technology The Latest in Cryo-EM
10:30 – 10:45	V. Simic-Milosevic (#5) SPECS Surface Nano Analysis GmbH Ultimate Stability and Productivity at Variable Temperatures and Near Ambient Conditions - The SPM Aarhus Family
10:45 – 11:00	S. Nikolopoulos (#161) NanoMEGAS SPRL TopSPIN: a new Digital STEM, beam precession & analytical framework (orientation imaging - strain mapping- EELS/EDS signal improvement)
11:00 – 11:15	Nicolas F. Martinez (#160) ScienTec Ibérica Resiscope II, a Module for Advanced Electrical Characterization in Atomic Force Microscopy
11:15 – 11:45	COFFEE BREAK & EXHIBITION (HALL)

11:45 – 12:15	Pedro M. F. J. Costa (#171) Aveiro University Using an electron microscope to manipulate filled carbon nanotubes
12:15 – 12:45	Josep M. Trigo-Rodríguez (#67) Institute of Space Sciences (CSIC-IEEC) Electron microscopy to better understand meteorites older than Earth from the NASA Antarctic collection: How were the building blocks of planets?
12:45 – 13:00	C. E. Moyano-Cambero (#149) Institute of Space Sciences (CSIC-IEEC) The Use of Optical and Electron Microscopy to Study the Martian Meteorite Allan Hills 84001 and the Shock Effects in Several Shergottites
13:00 – 13:15	V. Antunes (#55) Instituto História da Arte da Faculdade de Letras da Universidade de Lisboa 15 th and 16 th Centuries Portuguese Painting Ground Layers from Coimbra's Workshop: Classification of Calcium Sulphate Fillers and Binders
13:15 – 13:30	CLOSURE

POSTER SESSIONS

Wednesday 18th September 2013

Poster Session A (HALL)

Materials Science

18:30 – 20:00	POSTER SESSION A MS
MA1	R. Rosentsveig, L. Yadgarov, D. G. Stroppa, L. Houben, R. Tenne (#8) Weizmann Institute of Science Investigation of Rhenium-doped MoS ₂ Nanoparticles with Fullerene-like Structure
MA2	R. Sánchez-Tovar, R. Leiva-García, J. García-Antón (#14) Universitat Politècnica de València (UPV) Influence of Temperature on a Duplex Stainless Steel by Means of Confocal and Raman Microscopy
МАЗ	J. A. R. Pacheco de Carvalho, C. F. R. Pacheco, A. D. Reis (#20) Universidade da Beira Interior Applications of MeV Ion Beams and Microscopy to Surface Analysis of Materials
MA4	J. Ramírez-Castellanos, A. Peche, I. López, E. Nogales, B. Méndez, J. Piqueras, J. González-Calbet (#23) Universidad Complutense de Madrid Microstructure and Luminescence of Sn-Cr Dopped β-Ga ₂ O ₃ Nanowires
MA5	L. Yadgarov, R.Rosentsveig, R. Tenne (#27) Weizmann Institute of Science Synthesis and Characterization of Re/Nb Doped Inorganic Nanotubes and Fullerene-Like Nanoparticles
MA6	M. Stankova, R. Calavia, L. Vojkuvka, E. Llobet (#30) Universitat Rovira i Virgili Dynamic Voltage Contrast for Study of Metal Oxide Gas Sensor Structures
MA7	L.E. Chinchilla, C. Olmos, A. Villa, L. Prati, X. Chen, J.J. Calvino, A.B. Hungría (#33) Universidad de Cádiz Ru Modified Au Catalysts Supported on Ceria Zirconia for the Selective Oxidation of Glycerol
MA8	A. Ibarra, J. Crespo, J. M. López-de-Luzuriaga, M. Monge, M. E. Olmos (#34) Laboratorio de Microscopías Avanzadas (LMA)-Instituto de Nanociencia de Aragon (INA), Universidad de Zaragoza Synthesis and Plasmonic Properties of Core-Shell Bimetallic Silver-Gold Nanoprisms Obtained Through an Organometallic Route

МАЭ	R. Cortés-Gil, A. Torres-Pardo, A. El Hadri, M. L. Ruiz-González, J. M. González-Calbet (#39) Universidad Complutense CEI Moncloa LaNiO _{3-ō} : Defects and Oxidation States Under Atomic Resolution
MA10	LI. López-Conesa, G. Martín, M. Vila, C. Díaz-Guerra, J. Piqueras, S. Estradé, F. Peiró (#51) Universitat de Barcelona Structural, Chemical and In Situ Electrical Characterization of Bi ₂ O ₃ Nanowires
MA11	T. Ferreira, H. Moreiras, A. Manhita, C. Frade, E. Lopes, P. Tomás, P.S. Rodrigues, J. Mirão, A. Candeias, C. Dias, A.T. Caldeira (#56) Universidade de Évora Material Characterization of a Liturgical Cope Belonging to D.Teotónio of Braganza (16th Century)
MA12	S. Valadas, A. Cardoso, J. Mirão, C. Dias, R. Freire, A. Candeias (#58) Universidade de Évora Unravelling 16th Century Portuguese-Flemish Paintings Using Microanalytical Techniques
MA13	P. Valles, A. Pastor, O. Vilanova, S.F. Medina, M. Gómez (#59) Instituto Nacional de Técnica Aeroespacial (INTA) Microstructural Studies for Optimization o Heat Treatment in Components of Steel X ₃₈ CrMoV ₅₋₁ Subjected to High Stresses
MA14	A.Genc, A. de la Escosura-Muñiz, A. Merkoçi, J. Arbiol (#63) Institut de Ciencia de Materials de Barcelona, ICMAB-CSIC HRTEM Characterization and Modeling of Spheroidal Decahedron Shaped Au Nanoparticles
MA15	P.G. González, E. Urones-Garrote, D. Ávila-Brande, L.C. Otero-Díaz (#154) Centro de Investigación en Micro y Nanotecnología, Universidad Veracruzana Study of the Structure and Textural Properties of Microporous Carbon Nanospheres
MA16	El Hadri Achraf, M. Hernando, A. Varela, J.M. González-Calbet, M. Parras, <u>F. J. García-García</u> (#179) ICTS-Centro Nacional de Microscopía Electrónica, UCM The Crystal Structure of BaFe _{1-X} Co _X O _{3-δ} , $0.1 \le \delta \le 0.3$, $0.3 \le x \le 0.5$: Co Comes in, Messing Up the Structure.
MA 17	J. Hernández-Moro, A.R. Landa-Cánovas, F. Agulló-Rueda, P. Díaz-Carrasco, J.R. Ramos-Barrado, M. Gabás, P. Herrero-Fernández (#81) Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC Microstructural Characteristics of Transparent Conducting ZnO Doped with Ga and Al Cations

Life Sciences

18:30 – 20:00	POSTER SESSION A LS
LA1	T. M. Fortuna, J. C. Franco, M. T. Rebelo (#6) CESAM, Universidade de Lisboa Morphology and Distribution of Antennal Sensilla in a Mealybug Parasitoid, Anagyrus Sp. Near Pseudococci (Hymenoptera, Encyrtidae)
LA2	N. Centeio, A. Farinha, C. G. Dourado, A. R. Oliveira, D. Dias, M. T. Rebelo (#7) CESAM, Universidade de Lisboa Fine Structure Comparison Of Eggshell From Lucilia Sericata And Calliphora Vicina, Calliphoridae With Forensic Importance
LA3	A. García-Herraiz, R. Leiva-García, F. J. Silvestre, J. García-Antón (#13) Universidad de Valencia Dimensional Accuracy of Silicone Impressions and Plaster Casts Using CLSM
LA4	E. Bailo, A. Jauss, J. Toporski, U. Schmidt (#15) WITec GmbH Confocal Raman Imaging Applied in Bio-Medical Sciences
LA5	<u>F.J. Chichón</u> , A. Cuervo, J.J. Conesa, A. Camacho, J.L. Carrascosa (#17) Centro Nacional de Biotecnología (CNB-CSIC) Structural Characterization of the Phi29 Tail Complex During DNA Injection
LA6	A. Chicano, J. R. Daban (#35) Universitat Autònoma de Barcelona Structure of Bulk Chromatin in Interphase Nuclei of Human Cells
LA7	T. Rosado, J. Mirão, A. Candeias, A.T. Caldeira (#43) Évora University Microbial Diversity in Mural Paintings: How to Know Better
LA8	C. Salvador, M.R. Martins, J.M. Arteiro, A.T. Caldeira (#44) University of Évora Bioactive Protein-Bound Polysaccharides from Amanita Ponderosa Cultures
LA9	A. C. C. Marcato, N. Righetto Neto, J. E. Correia, J. F. U. Marinho, C. S. Fontanetti (#82) UNESP, São Paulo State University Investigation of the Toxicity of the Commercial Herbicide 2,4-D Using Gills of Tilapia as a Model
LA10	P. Nolasco, F. Cabrita, P. V. Coelho, A.P. Alves de Matos, A. Maurício, M.F.C. Pereira, J.M.R. Sanches, P.A. Carvalho (#85) Universidade de Lisboa Mean X-Ray Attenuation by Salivary Calculi Computed from Microtomography Data

LA11	A.J. Anjos, P. Nolasco, J.M. Aquino Marques, A.P. Alves de Matos, P.A. Carvalho (#87) Universidade de Lisboa On Oral Calcifications: Tartar and Pulp Stones
LA12	F. Amaro, L. Chainho, L. Zé-Zé, H. Osório, M. J. Alves, A. P. Alves de Matos (#100) Centro de Estudos de Vectores e Doenças Infecciosas/Instituto Nacional de Saúde Dr. Ricardo Jorge Electron- Microscopy Characterization of a Phlebovirus Isolated in Sandflies from South Portugal
LA13	R. Lacerda, L. Ascensão (#102) Universidade de Lisboa Glandular Trichomes on the Leaves and Flowers of Bellardia Trixago and Parentucellia Viscosa (Orobanchaceae)
LA14	F. F. Vale, A. P. Alves de Matos, M.F. Caeiro, J. M. B. Vitor (#103) Universidade Católica Portuguesa / Universidade de Lisboa Survival of Helicobacter Pylori within Amoeba
LA15	M. Gomes, A. P. Alves Matos, M. Gaspar, M. Colla Carvalheiro, <u>F. F. Vale</u> (#104) Universidade Católica Portuguesa / Universidade de Lisboa Drug Delivery Systems for Helicobacter Pylori
LA16	L. Millach, A. Burgos, A. De los Rios, J. Maldonado, A. Solé, I. Esteve (#112) Universitat Autònoma de Barcelona Effect of Copper and Lead on Two Consortia of Phototrophic Microorganisms and Their Capacity to Sequester them Determined by High Resolution Microscopy Techniques
LA17	I. Vieira da Silva, T. Nogueira, L. Ascensão (#113) Universidade de Lisboa Secretory Structures on the Flowers of Hypericum Pubescens and H. Tomentosum
LA18	G. Orpella-Aceret, A. Sánchez-Chardi, S. Secanella-Fandos, M. Luquin, E. Julián (#122) Universitat Autònoma de Barcelona Interaction Between Bladder Tumor Cells and Mycobacterium Brumae or BCG by Using Electron Microscopy
LA19	A. Sánchez-Chardi, A. Dols-Pérez, J. Repullés, C. Rodríguez-Cariño, M.A. Sans-Fuentes (#123) Universitat Autònoma de Barcelona Different Approaches to Quantitative Histopathological Evaluation as a Management Tool on Natural Populations of Protected Sites

Thursday 19th September 2013

Poster Session B (HALL)

Materials Science

18:30 – 20:00	POSTER SESSION B MS
MB1	Myriam H. Aguirre, Eugenio H. Otal, Laura Bocher, Luiz Tizei, Mathieu Kociak (#66) Laboratorio de Microscopías Avanzadas (LMA), Instituto de Nanociencia de Aragón (INA), Universidad de Zaragoza Spectrally and Spatially Resolved Cathodoluminescence Study on Pr:CaTiO ₃ by Electron Microscopy
MB2	P. Vilanova-Martínez, J. Hernández-Velasco, F. Agulló-Rueda, A.R. Landa-Cánovas (#70) Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC Short Range Order and Phase Transition in Sb-Doped VO ₂
МВЗ	<u>J. Hernández-Velasco</u> , P. Vilanova-Martínez, F. Agulló-Rueda, A. Landa-Cánovas (#72) Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC Short Range Order and Magnetic Ordering in SbVO ₄
MB4	M. Brânzei, I. Pencea, M. Feder, D. Gheorghe (#77) University POLITEHNICA of Bucharest Quantitative Light Microscopy Applyed on MnZn Ferrite With Bi ₂ O ₃ Increasing Addition
MB5	A. Torres-Pardo, I. N. González-Jiménez, A. Varela, M. Parras, J. M. González-Calbet (#78) Universidad Complutense CEI Moncloa Atomically-Resolved Analisys of the Topotactic Reduction in SrMnO _{3-δ} Nanoparticules
МВ6	M. de la Mata, X. Zhou, F. Furtmayr, J. Teubert, S. Gradečak, M. Eickhoff, A. Fontcuberta i Morral, J. Arbiol (#80) Institut de Ciència de Materials de Barcelona, ICMAB-CSIC Bandgap Engineering in a Nanowire: Embedding 0D, 1D, and 2D Quantum Structures
МВ7	C.M. Fernandes, A. Cavaleiro, C. Van Gestel, J. Jhabvala, E. Boillat, M.T. Vieira, A.M.R. Senos (#86) University of Aveiro Microstructural Characterization of WC-AISI 304 Composites Obtained by Selective Laser Sintering
MB8	R. Zamani, M. Ibáñez, J.R. Morante, A. Cabot, J. Arbiol (#91) Institut de Ciència de Materials de Barcelona, ICMAB-CSIC & IREC Functional Nanocomposites Made of PbTe-PbS Core-Shell Nanocrystals for Thermoelectrics: Structure Study

МВ9	M. Rosado, E. Pach, B. Ballesteros (#109) Catalan Institute of Nanotechnology, CIN2 (ICN-CSIC), Extreme High Resolution Scanning Electron Microscopy
MB10	M. Martínez-Jiménez, J.M. Trigo-Rodríguez (#150) Institute of Space Science (CSIC-IEEC) Solar System Formation, and Parent Body Processing Clues from the Microscopic Study of Pristine Carbonaceous Chondrites
MB11	J. Jeremias, I. Nogueira, P. Nolasco, P.A. Carvalho, C. Ferreira, C.Costa (#157) ICEMS, University of Lisbon Pozzolanic Activity of Oil-Refining Catalyst: Evaluation by Electron and Atomic Force Microscopy
MB12	J. Portillo, D. Viladot, M. Véron, M. Gemmi, F. Peiró, S. Estradé, J. Mendoza, N. Llorca, S. Nicolopoulos (#164) NanoMEGAS SPRL / CCiT, Universitat de Barcelona Orientation and Phase Mapping in TEM Microscopy with the ASTAR Technique: Application Examples for Materials Characterization
MB13	A. Rodríguez-Contreras, J.M. Manero, M.S. Marqués-Calvo (#173) Universitat Politècnica de Catalunya Study for Poly[(R)-3-Hydroxybutyrate] Production by a Novel Bacterium and its Modification for the Preparation of Drug-Loaded Micro- and Nano-Spheres
MB14	M.T. Foixench, C. Caparrós, A. Rodríguez-Contreras, E. Ruperez, J.M. Manero, F. Xavier Gil (#174) Universitat Politècnica de Catalunya Bonlike Apatite Formation on the Surface of Chemically Treated Tantalum Susbtatres
MB15	C. Herranz, J. Schaffer, T. Trifonov, J. Portillo, S. Estrade, Ll. Yedra, J. Mendoza, FX Gil, J.M. Manero (#175) Universitat Politècnica de Catalunya Microstructural Characterization of a Potential Superelastic Nickel-Free Titanium Alloy
MB17	P. Abellan, T.J. Woehl, L.R. Parent, M. Gu, B.L. Mehdi, P. Xu, P.V. Deshmukh, I. Arslan, W.D. Ristenpart, CM. Wang, J.E. Evans, N.D. Browning (#181) Pacific Northwest National Laboratory Controlling a Gas/Liquid Environment in the (S)TEM/DTEM for the Study of Nanomaterials Dynamics

Life Sciences

18:30 – 20:00	POSTER SESSION B LS
LB1	C. Rodriguez-Cariño, T. Mussá, M. Pujol, <u>A. Sánchez-Chardi</u> , L. Córdoba, N. Busquets, E. Crisci, M. Baratelli, P. Martínez, J. Dominguez, L. Fraile, M. Montoya (#124) Universitat Autònoma de Barcelona An Ultrastructural Study of in Vitro Conventional Swine Influenza Virus Infection
LB2	J. Repullés, M.A. Sans-Fuentes, J. Ventura, A. Sánchez-Chardi (#125) Universitat Autònoma de Barcelona Quantifying the Effects of Robertsonian Fusions on Male Reproduction with Light and Electron Microscopy
LB3	F. Resende, N. Barbosa, M. Barra, A. P. Alves de Matos, P. L. Falé, L. Ascensão, M. L. M. Serralheiro, M. F. Caeiro (#128) CESAM, Universidade de Lisboa Activities of Plant Aqeous Extracts Against Herpes Simplex and Encephalomyocarditis Murine Viruses
LB4	J. F. Rocha, O.A.B. da Cruz e Silva, S.I. Vieira (#131) Universidade de Aveiro Characterization of SH-SY5Y Neuronal-Like Differentiation Models
LB5	A. P. Tenreiro, S. Rebelo, F. Martins, E. D. Coelho, A. P. Alves de Matos, O. A. B. da Cruz e Silva (#133) Universidade de Aveiro Comparison of Sucrose and Percoll Based Methodologies for Isolation of Synaptosomalenriched Fractions
LB6	F.M.S. Morsoleto, T. Milano, <u>F. Morgado</u> , M.J.M.S. Morsoleto (#137) CESAM & Universidade de Aveiro Electrotherapy with Microcurrents in Skeletal Muscle Regeneration
LB7	M.J.M.S. Morsoleto, V. Sella, P. Machado, F. do Bomfim, M.H. Fernandes, H. Plapler, F. Morgado (#138) CESAM & Universidade de Aveiro Low-Level Laser Applications on the Cytochemistry of Osteoblastic Cell Biomodulation
LB8	M.J.M.S. Morsoleto, F.M.S. Morsoleto, <u>F. Morgado</u> , C.A. Anaruma (#139) CESAM & Universidade de Aveiro Use of Ultrasonic Energy for the Enhancement of Drug Transport in the Regeneration of Skeletal Muscle Injuries
LB9	J.R. Gadelha, F. Morgado, A.M.V.M. Soares (#140) CESAM & Universidade de Aveiro Histological Analysis of Reproductive Anatomy of Actinia Equina and Anemonia Sulcata (Cnidaria: Anthozoa)

J.R. Gadelha, <u>F. Morgado</u> , A.M.V.M. Soares (#141) CESAM & Universidade de Aveiro Reproductive Histopathologies of the Sea Anemones Actinia Equina and Anemonia Sulcata of the Iberian Coast
J.V. Betioli, C.A. Christofoletti, M.A. Marin-Morales, <u>F. Morgado</u> (#142) CESAM & Universidade de Aveiro Chromosomal Anomalies Analysis for Preliminary Tests Application of Cytotoxic, Genotoxic and Mutagenic Environmental Contamination
M.J.M.S. Morsoleto, A.A. Aro, L. Gomes, M.A.M. Esquisatto, <u>F. Morgado</u> (#143) CESAM & Universidade de Aveiro Therapeutic Applications of Ultrasound, Glycosaminoglycan and Chondroitin Sulfate on the Articular Cartilage Arthritis
I. Joao, L. Reis, P. Carvalho, A. Duarte, L. Jordao (#144) INSA Exploiting a Link Between Resistance to Antimicrobial Agents and Pathogens Structure
M.J. Jiménez-Quesada, A. Zafra, E. García-Quirós, J.A. Traverso, J.D. Alché (#165) Estación Experimental del Zaidín, CSIC Localization of NADPH Oxidase and Superoxide Dismutase Transcripts in Olive Reproductive Tissues by Using Double-Labelled Oligonucleotide Probes
C. Salvador, M.R. Martins, J.M. Arteiro, A.T. Caldeira (#166) University of Evora Bioactive Protein-Bound Polysaccharides from Amanita Ponderosa Cultures
D. Rodler, F. Sinowatz (#172) Ludwig-Maximilians-University, Munich Ultrastructure and Cytochemistry of the Blood Cells of the Ostrich (Struthio Camelus)
E. García-Quirós, S. Ch. Brandt, M.I. Rodríguez-García, A.J. Castro, J.D. Alché (#177) Estación Experimental del Zaidín, CSIC LM/TEM Immunolocalization of Low Molecular Weight Antioxidants in Olive Pollen During Pollen Development and Germination