ecoss 31 European Conference on Surface Science

Pocket Programme

Sunday, 30 August 2015

16.00-20.00	Registration desk

Monday, 31 August 2015

08.00-18.00	Registration desk				
09.00-09.30	Room 113+114 I Opening ceremony				
09.30-10.30	Room 113+114 I Plenary 1 Chair : Salvador Ferrer Surface Science in the 21st century: dense, wet and fast **Miquel Salmerón**, Materials Sciences Division, Lawrence Berkeley National Lab., Berkeley, California, USA				
10.30-11.00	Coffee-break (Exhibition area)				
	Session 1 I SMG Room A (Rooms 113+114) Chair: Katharina Franke	**Session 2 I OXI Room B (Rooms 127+128) Chair: Salvador Ferrer**	**Session 3 I MOS Room C (Rooms 129+130) Chair: Juan José de Miguel**	**Session 4 I ELP Room D (Rooms 131+132) Chair: Miguel Pruneda**	**Session 5 I CAT Room E (Rooms 133+134) Chair: Georg Held**
11.00-11.15	Mo-A01+02 Magnetism on the magnetite (001) surface **Juan de la Figuera**	Mo-B01 Atomic scale view of the early stages of a metal oxidation: Scanning Tunneling Microscopy and Spectroscopy study of the oxidation of Co ultrathin films **Andrea Picone**		Mo-D01 Transport calculations of charge carrier coupled with molecular vibrations of organic semiconductors **Hiroyuki Ishii**	Mo-E01+02 Hydrogen production from water by thermal and photo-excited methods **Hicham Idriss**
11.15-11.30		Mo-B02 Study the formation of surface oxide on Al(111) and Al(100) surfaces using synchrotron based X-ray photoemission spectroscopy and scanning tunneling microscopy **Milad Ghadami Yazdi**		Mo-D02 Organic radicals as electro- and magnetic-active units grafted on surface for molecular electronics and spintronics **Núria Crivillers**	
11.30-11.45	Mo-A03 Cobalt doping of magnetite (100)-sqrt2 ×sqrt2 R45 **Lucia Aballe**	Mo-B03 DFT study of 3D AFM - STM metal oxide imaging modes: towards atomic species identification **Diego Rodríguez Hermoso**	Mo-C03+04 Donor/acceptor monolayer blends on noble metal surfaces **Patrizia Borghetti**	Mo-D03 Electron transport and surface enhanced Raman scattering at structurally well-defined single 1,4-benzenedithiole **Satoshi Kaneko**	Mo-E03 In situ microscopy of ceria inverse model catalysts using slow electrons **Jens Falta**
11.45-12.00	Mo-A04 Sherman mapping of passivated Fe(001): A possible target for a multichannel spin polarimeter **Christian Thiede**	Mo-B04 The impact of thermal motion on ceria(100): revealing surface dynamics of lattice atoms **Marçal Capdevila-Cortada**		Mo-D04 Unusually high electrical conductivity of a Pb monolayer on Ge(111) **Tetsuya Aruga**	Mo-E04 In situ characterization of intermetallic Pd_2Ga/SiO_2 nanoparticles for low pressure CO_2 hydrogenation to methanol **Elisabetta Maria Fiordaliso**
12.00-12.15	Mo-A05 XMCD Study on Co/Ni Multilayer on W(110) **Tsuneo Yasue**	Mo-B05 Near-total reflection hard x-ray photo-emission spectroscopy for depth-resolved investigation of functional oxide interfaces **Julien Rault**	Mo-C05 Stoichiometry and Electronic Structure of Bidimensional Donor/Acceptor Superlattices on Metal Surfaces **Roberto Otero**	Mo-D05+06 Charge re-distribution at organic interfaces to reach electronic equilibrium **Norbert Koch**	Mo-E05 Revealing the important role of the catalytic support via in operando XPS measurements using the Near Ambient Pressure Photoemission (NAPP) endstation at the ALBA synchrotron **Carlos Escudero**
12.15-12.30	Mo-A06 Magnetic properties of Cobalt nanodot arrays on rare-earth-Au^2 surface compounds **Frederik Schiller**	Mo-B06 Oxidation of FeO(111) Grown on Pt(111): Spectroscopic Evidence for Hydroxilation **Niclas Johansson**	Mo-C06 Tunability of the Frontier Orbitals of Triplet Emitters studied by STM and STS **Pascal Raphael Ewen**		Mo-E06 How is soot oxidised over CeO_2? A combined AP-XPS and HRTEM study **Jordi Llorca**
12.30-14.30	Free time for lunch				**Elsevier workshop : How to Get Published in a Scientific Journal 12.30 to 13.00 h**
	Session 6 I SMG Room A (Rooms 113+114) Chair: Lucía Aballe	**Session 7 I OXI Room B (Rooms 127+128) Chair: Edvin Lundgren**	**Session 8 I MOS Room C (Rooms 129+130) Chair: Juan José de Miguel**	**Session 9 I ELP Room D (Rooms 131+132) Chair: Norbert Koch**	**Session 10 I CAT Room E (Rooms 133+134) Chair: Jordi Llorca**
14.30-14.45	Mo-A07 Achieving long range magnetic order on a monolayer of TCNQ adsorbed on graphene /Ru(0001) **Fabian Calleja**	Mo-B07 Surface-interface exploration of ultra-thin MgO oxide films grown onto metallic and semiconductor substrates **Brice Sarpi**	Mo-C07 Energy alignment and electron dynamics at the porphyrin/silver interface **Silvia Tognolini**	Mo-D07+08 Polar discontinuities at grain boundaries in 2D materials **Miguel Pruneda**	Mo-E07 Novel Solutions for Ambient Pressure and In-Situ Photoelectron Spectro-Microscopy **Hikmet Sezen**
14.45-15.00	Mo-A08 Intermolecular magnetic interactions in phthalocyanine sandwiches **Barbara Brena**	Mo-B08 In situ growth and redox study of ultrathin cerium oxide films on Au(111) and Pt(111) **Jens Falta**	Mo-C08 Hydrogen-bonding bimolecular networks on metal surfaces: Hierarchical and charge separation effects **Christian Steiner**		Mo-E08 In-situ UV-vis and mass spectroscopy studies of syngas conversion model catalysts **Kees-Jan Weststrate**
15.00-15.15	Mo-A09 Magnetic properties of tetra-phenyl-porphyrins adsorbed on metal surfaces **Mirco Panighel**	Mo-B09 In-situ atomic-scale control of the pulsed-laser growth of a polar perovskite oxide **Michele Riva**	Mo-C09 On-surface preparation of self-terminating molecular chains **Emil Sierda**	Mo-D09 Lateral heterojunctions on GdAg2 surface alloy **Lucia Vitali**	Mo-E09 Novel surface oxide on Pt(111) as the active phase for NO and CO oxidation studied with the ReactorSTM **Matthijs Van Spronsen**
15.15-15.30	Mo-A10 Tuning the magnetocrystalline anisotropy of single molecules **Benjamin W. Heinrich**	Mo-B10 Ultra-thin stepped iron oxide films on high index Pt surfaces **Elin Grånäs**	Mo-C10 On-surface polymerization on semiconductor surfaces **Marek Kolmer**	Mo-D10 Identifying distinctive electronic features of terminal and bridging hydroxyl groups of dissociated H_2O on TiO_2(110) **Annapaola Migani**	Mo-E10 Local surface reaction kinetics "just by imaging" **Yuri Suchorski**
15.30-15.45	Mo-A11+12 Exploring magnetic interaction strengths of metal-organic molecules on a superconductor **Katharina Franke**	Mo-B11 Structure and chemical properties of ultra-thin FeO films on Ag(100) **Lindsay R. Merte**	Mo-C11 Solvation and thermodynamic calculations of small organic molecules on calcite **Akin Budi**		Mo-E11 Surface science studies of iron molybdate catalysts for the selective oxidation of methanol **Michael Bowker**
15.45-16.00		Mo-B12 Fe_3O_4(001) thin film growth on ^{3}Pt(100): Tuning of surface termination with an Fe buffer layer **Earl Matthew Davis**	Mo-C12 Direct measurement of the molecular dynamics of rupture and reformation of confined liquid layers **Josep Relat-Goberna**	Mo-D12 Momentum resolved electron-phonon coupling analysis for inelastic tunneling and photoemission **Ryuichi Arafune**	Mo-E12 Square pyramidal structure of oxo vanadium (V) and (IV) species over low coverage VOx/TiO2 (101) and (001) anatase catalysts and modified Brønsted acidity via metal substitutions **Logi Arnarson**
16.00-16.30	Coffe-break (Exhibition area)				
	Session 11 I SUC Room A (Rooms 113+114) Chair: Stanislas Rohart	**Session 12 I OXI Room B (Rooms 127+128) Chair: Carmela Aruta**	**Session 13 I MOS Room C (Rooms 129+130) Chair: Celia Rogero**	**Session 14 I ELP+OPE+SCS Room D (Rooms 131+132) Chair: Norbert Koch**	**Session 15 I CAT Room E (Rooms 133+134) Chair: Hicham Idriss**
16.30-16.45	Mo-A13 Tuning of the Surface Superconductor Si(111)-(√7x√3)-In with Self-assembled Magnetic Molecules **Takashi Uchihash**	Mo-B13+14 Oxygen defects, surface chemistry and catalysis of ceria-based systems: Theoretical and experimental model catalysts **Maria Veronica Ganduglia-Pirovano**	Mo-C13 Adsorption of Thiophene-Based Molecules at Passivated Silicon Surfaces **Mark Gallaguer**	Mo-D13 Measuring the efficiency of plasmon excitation by tunnelling currents **Alberto Martín-Jiménez**	Mo-E13 Catalytic Reactivity at High Coverage, a Theoretical Approach: Butadiene Hydrogenation on Pt(111) and Sn/Pt(111) **Sarah Gautier**
16.45-17.00	Mo-A14 Remarkable interaction of superconductivity with defects in 2D materials **Stéphane Pons**		Mo-C14 Reversible Formation of Chemical Bonds between Organic Molecules and Single Atoms on Hydrogenated Semiconductors **Szymon Godlewski**	Mo-D14 Coupling an electrical circuit to surface plasmons with a single molecule **Michael Chong**	Mo-E14 Surface chemistry of small amino acids on bare and oxygen-covered Ni model catalyst surfaces **Georg Held**
17.00-17.15	Mo-A15 Superconductivity in the 2D limit: Tc enhancement in 2H-TaS2 few-layers **Samuel Mañas Valero**		Mo-C15 Mechanistic Insight into CO_2 Dissociation on Copper Surfaces **Fahdzi Muttaqien**	Mo-D15 In(4x1)/Si(111): Interwire coupling probed by local surface transport **Ilio Miccoli**	Mo-E15 DFT study of methanol decomposition on Pt nanoparticles **Sergey Dobrin**
17.15-17.30	Mo-A16 Scanning Tunneling Microscopy of Superconducting Vortices Trapped at Atomic Steps of Si(111)-(√7×√3)-In **Shunsuke Yoshizawa**	Mo-B16 High chemical activity of a perovskite surface: adsorption of CO on Sr3Ru2O7 and Ca3Ru2O7 **Florian Mittendorfer**	Mo-C16 Hole-induced nonlocal desorption of chlorobenzene from Si(111)-7x7 in the STM **Scott Holmes**	Mo-D16 Triangular Atom Lattice with Strong Coulomb Correlations: Epitaxy of Sn on a SiC(0001) Substrate **Joerg Schaefer**	Mo-E16 Methane oxidation over palladium oxide from first-principles based micro-kinetic modelling **Henrik Grönbeck**
17.30-17.45	Mo-A17 Tunneling processes into localized subgap states in superconductors **Michael Ruby**	Mo-B17 The structure and reactivity of Rh layers supported and covered by atomically thin molybdenum oxides **László Deák**			
17.45-18.00		Mo-B18 Metal/zirconia and zirconia/metal (inverse) model catalysts: Growth and SMSI effect **Michael Schmid**			
18.00-20.00	Poster session Monday (Exhibition area)				

Themes

Adsorption and desorption	ADS	Piezo and ferroelectricity at surfaces	PFS
Band structure of surfaces	BSS	Polymer surfaces and interfaces	POL
Catalysis under ideal and real conditions	CAT	Real-time processes at surfaces	RTP
Colloids and interfaces	COL	Self-assembly at surfaces	AS
Corrosion at the atomic scale	COR	Semiconductor surfaces	SMC
Electrochemistry at surfaces	ELC	Superconductivity in 2D materials	SUC
Electronic properties of surfaces	ELP	Surface chemical reactions, kinetics and heterog. catalysis	SCR
Graphene and carbon-based nanomaterials	GRA	Surface diffusion and growth	SDI
Liquid/solid and liquid/liquid interfaces	LSI	Surface dynamics	SDY
Materials for energy: photovoltaics, solar and fuel cells, etc.	M4E	Surface magnetism	SMG
Metal, alloy and quasicrystal surfaces	MAQ	Surface phases and phase transitions	SPT
Molecules at surfaces	MOS	Surface structure	SST
Novel-advancement of experimental and comp. methods	NAM	Strong correlations at surfaces	SCS
Oxide surfaces and thin/ultra-thin oxide films	OXI	Topological insulators	TPI
Optoelectronic excitations at surfaces	OPE	Tribology and mechanical properties at the atomic scale	TRI

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Tuesday, 1 September 2015

08.00-18.00	Registration desk				
	Session 16 I GRA Room A (Rooms 113+114) Chair: Jordi Fraxedas Session sponsored by ICN2-Severo Ochoa	**Session 17 I OXI Room B (Rooms 127+128) Chair: TBA**	**Session 18 I MOS Room C (Rooms 129+130) Chair: Aitor Mugarza**	**Session 19 I SDI Room D (Rooms 131+132) Chair: TBA**	**Session 20 I SCR Room E (Rooms 133+134) Chair: Jordi Llorca**
08.30-08.45	Tu-A01+02 Understanding Charge and Spin Transport in Graphene-based Materials: From Concepts to Applications **Stephan Roche**	Tu-B01 Adsorption of CO and CO_2 onto Co3O4(111) and CoO(111) films grown on Ir(100) **Mohammad Alif Arman**	Tu-C01 Probing the site-dependent Kondo response of nanostructured graphene with organic molecules **Fabian Calleja**	Tu-D01 GIFAD inside MBE, a most valuable combination **Philippe Roncin**	
08.45-09.00		Tu-B02 Water adsorption on ferroelectric oxide surfaces: A synchrotron Near Ambient Pressure X-ray Photoelectron Spectroscopy (XPS) study **Albert Verdaguer**	Tu-C02 Interaction of delocalized spins engineered by doping a molecular layer with single atoms **Taner Esat**	Tu-D02 Pushing and moving along the steps: correlated motion measurements of strongly-repulsive Na atoms on a stepped (115) copper surface. **Gil Alexandrowicz**	
09.00-09.15	Tu-A03 Spatial variation of a giant spin-orbit coupling effect induces electron confinement in graphene on Pb islands **Juan Jesús Navarro**	Tu-B03 Mechanism of Water Dissociation on CoOx nanoislands on Au(111) **Jakob Fester**	Tu-C03 Adsorption of homochiral organic molecules on metal surfaces: Structure and enantiospecific photoelectron spin polarization **Juan José de Miguel**	Tu-D03 Atomic scale view of the surfactant action in the epitaxial growth of a metastable phase: oxygen assisted growth of Co on Fe(001) **Dario Giannotti**	Tu-E03+04 Supported metallic and bimetallic nanocatalysts **Francesca Baletto**
09.15-09.30	Tu-A04 An anti-aromatic approach to enhanced molecular charge-transport **Santiago Marqués González**	Tu-B04 Wet chemically prepared titanium dioxide surfaces: Substrates for studies under non-UHV conditions **Rob Lindsay**	Tu-C04 Ideal metal-molecule chemical linkers for single molecule transport studied through first principles simulations in and out of equilibrium **Héctor Vázquez**	Tu-D04 Growth of near-surface Co nanoclusters **Oleg Kurnosikov**	
09.30-09.45	Tu-A05 Graphene monovacancies: electronic and mechanical properties from large scale ab initio simulations **Lucía Rodrigo**	Tu-B05 Surface Science studies of submonolayer Vanadium supported on TiO2-anatase (101) **Stig Koust**	Tu-C05 Interactions between benzene derivatives on noble metal surfaces **Sergey Filimonov**	Tu-D05 Stabilizing Phthalocyanines on Ag(100) **Grażyna Antczak**	Tu-E05 Modeling Elementary Heterogeneous Atmospheric (Photo)chemical Processes on Ice and their Dynamics using Amorphous Solid Water **Patrick Ayotte**
09.45-10.00	Tu-A06 Probing excitonic effects in chevron-like graphene nanoribbons **Valentina De Renzi**	Tu-B06 In-gap states induced by electron irradiation at anatase TiO_2 (101) surfaces **Naoki Nagatsuka**	Tu-C06 On-surface engineering of upstanding ferrocene-based molecules **Nicolas Bachellier**	Tu-D06 Long-range ordered graphene on epitaxial Iridium (111) thin film deposited on (0001) Sapphire: a non-expensive support for the synthesis of nanocluster superlattice **Arti Dangwal Pandey**	Tu-E06 Fundamentally understanding Fischer-Tropsch synthesis on cobalt: how experimental surface science can help **C. J. Weststrate**
10.00-10.15	Tu-A07 Terahertz optical modes of supported graphene bilayer **Alberto Lodi Rizzini**	Tu-B07 Charging of small metal clusters on titania - The effect of doping **Philomena Schlexer**	Tu-C07+08 Single-ion magnets on metal and oxide surfaces **Pietro Gambardella**	Tu-D07 Faceting of Equilibrium and Metastable Nano- and Micro-structures: A Phase-Field Model of Surface Diffusion Tackling Realistic Shapes **Marco Salvalaglio**	Tu-E07 Combined HP-XPS measurements and gas phase imaging during CO oxidation over Pd single crystals **Sara Blomberg**
10.15-10.30	Tu-A08 Coherent phonons of Cs-intercalated graphene on Ir(111) **Kazuya Watanabe**				Tu-E08 Nano-effects in MoS2 nanoparticles: dynamic phenomena and stabilization of metastable phases through interaction with a metallic support **Albert Bruix**
10.30-11.00	Coffee-break (Exhibition area)				
	Session 21 I GRA Room A (Rooms 113+114) Chair: TBA Session sponsored by ICN2-Severo Ochoa	**Session 22 I OXI Room B (Rooms 127+128) Chair: Maria Veronica Ganduglia-Pirovano**	**Session 23 I MOS Room C (Rooms 129+130) Chair: Roberto Otero**	**Session 24 I LSI+COL Room D (Rooms 131+132) Chair: David Limmer**	**Session 25 I SCR Room E (Rooms 133+134) Chair: Francesca Baletto**
11.00-11.15	Tu-A09 Hybrid {magnetic/free-standing Graphene} structures: fabrication and advanced x-ray characterization by XMCD and XMCD-PEEM **Manuel Valvidares**	Tu-B09+10 Ionic conductivity in oxide thin films: the role of interface defects **Carmela Aruta**	Tu-C09 Role of orbital structure in high-resolution STM images of molecules on surface **Ondrej Krejci**	Tu-D09 Recent progress in high pressure analyser and experimental method development applied to liquid/solid interface studies **John Åhlund**	Tu-E09 Single-Molecule and Single-Active-Site Studies of Stereocontrol by Chemisorbed Chiral Molecules **Peter McBreen**
11.15-11.30	Tu-A10 Exchange coupled metal films mediated by a single layer graphene sheet **Pierluigi Gargiani**		Tu-C10 Direct Observation of Photoinduced Intramolecular Hydrogen Transfer within a Single Porphycene Molecule on a Cu(111) Surface **Hannes Boeckmann**	Tu-D10 Soft X-ray Photoelectron Spectroscopy at the graphene-liquid interface **Juan-Jesús Velasco-Vélez**	Tu-E10 Competitive displacement reactions on single crystal gold surfaces: role of weak interactions **Robert Madix**
11.30-11.45	Tu-A11 N-doped micropatterns in graphene by low energy nitrogen-ion irradiation **Alessandro Sala**	Tu-B11 Phonon-Mediated Electron Transport through CaO Thin Films **Niklas Nilius**	Tu-C11 Submolecular resolution in 3D **César Moreno**	Tu-D11 Quantitatively interpreting MD simulation profiles for X-ray photoelectron spectroscopy using SESSA **Giorgia Olivieri**	Tu-E11 Using In-situ Infrared Spectroscopy Wisely in Catalysis - One Spectrum to Include both the Surface Species and the Change of Catalyst Itself under the Realistic Reaction Condition **Mingshu Chen**
11.45-12.00	Tu-A12 Destructive interference towards chemical discrimination of N and B dopants in the B,N co-doped graphene/SiC(0001) **Mykola Telychko**	Tu-B12 Engineering polarons at a metal oxide surface **Chi Ming Yim**	Tu-C12 Low Temperature Photoemission Study of PTCDA on Sn/Si(111)-√3×√3 **Hanmin Zhang**	Tu-D12+13 Water structures and the wetting of metals and nano-structured interfaces **Andrew Hodgson**	Tu-E12 Determination of the Potential Energy Curve of Diethyl Ether on Si(001) - A Combined Optical Second-Harmonic Generation and Molecular Beam Study **Marcel Reutzel**
12.00-12.15	Tu-A13 In situ dynamic transmission electron microscopy observation of graphene formation process in nanoscale **Masaki Tanemura**	Tu-B13 Surface Phonons and Ferroelectric Coupling in ultrathin Perovskite Oxides **Wolf Widdra**	Tu-C13 Measuring the orbitals of adsorbed organic molecules in 3D **Sergey Subach**		Tu-E13 In Situ Study of the Reactivity of Graphene-Supported Nanocluster Arrays **Christian Papp**
12.15-12.30		Tu-B14 Inducing electric polarization in ultrathin insulating layers. **José Martínez-Castro**	Tu-C14 Quasi One-Dimensional Metallic Band Dispersion In long Range Ordered Polymeric wires **Guillaume Vasseur**		Tu-E14 Spectators Control Selectivity in Surface Chemistry for Acrolein Partial Hydrogenation reaction over Pd model surfaces **Francisco Ivars Barceló**
12.30-14.30	Free time for lunch				
	Session 26 I GRA Room A (Rooms 113+114) Chair: TBA Session sponsored by ICN2-Severo Ochoa	**Session 27 I OXI Room B (Rooms 127+128) Chair: Xavier Torrelles**	**Session 28 I MOS Room C (Rooms 129+130) Chair: Roberto Otero**	**Session 29 I LSI+COL Room D (Rooms 131+132) Chair: Andrew Hodgson**	**Session 30 I SCR Room E (Rooms 133+134) Chair: András Berkó**
14.30-14.45	Tu-A15+16 Graphene/metal Moirés: Unveiling structural and electronic modulations with STM and DFT simulations **Rubén Pérez**	Tu-B15 Tungsten Oxide One-Dimensional Nanostructures **Romana Pavliková**	Tu-C15 PEARL - A New User Laboratory for Surface Structure Studies **Matthias Muntwiler**	Tu-D15 Interfacial Properties of Colloidal Nanoparticles Studied In-Situ by Second Harmonic Scattering **Grazia Gonella**	Tu-E15 Surface-assisted Dehydrogenative Homo-coupling of Porphyrin Molecules **Alissa Wiengarten**
14.45-15.00		Tu-B16 One-dimensional metal-oxide hybrid structures formed on the Ir(100) surface: Crystallographic analysis and properties **Pascal Ferst**	Tu-C16 Programming the dimensionality of on-surface polymers by endo-/exo-ligation **Olha Popova**	Tu-D16 The Calcite {10.4}/Alcohol Interface: A Simple Model System for Studying Rock-Oil Interfaces **Sepideh Sadat Hakim**	Tu-E16 Revisiting the CO chemisorption on stepped Pt(111) with a curved crystal surface: imaging step-density dependent properties **Enrique Ortega**
15.00-15.15	Tu-A17 Long range corrugation of monolayer graphene on 6H-SiC(0001) characterized by Grazing Incidence Fast Atom Diffraction **Philippe Roncin**	Tu-B17 Two-dimensional condensation of ternary oxide FeWOx nanostructures on a Pt(111) surface **David Kuhness**	Tu-C17 Origin and modification of the Confined State in a 2D molecular nanoporous network **Ignacio Piquero-Zulaica**	Tu-D17+18 Collective behavior at electrochemical interfaces **David Limmer**	Tu-E17 Model Systems for Co Fischer-Tropsch catalysts: STM investigations of alkali metal on Co single crystal surfaces **Marie Strømsheim**
15.15-15.30	Tu-A18 Comparative atomic-scale scanning probe microscopy study of graphene and boron nitride on noble metal surfaces **Manuela Garnica**	Tu-B18 Formation of Anti-phase domain boundaries in two-dimensional silica via transformative recrystallization **Shashank Mathur**	Tu-C18 The growth of organic thin films studied by photoelectron emission and optical reflectance spectroscopy **Ebrahim Ghanbari**		Tu-E18 Strain-induced oxide decomposition at SiO_2/Si(001) and SiO_2/Si(111) interfaces studied by X-ray photoelectron spectroscopy and scanning tunnelling microscopy **Jiayi Tang**
15.30-15.45	Tu-A19 Surface Charge Transfer of Epitaxial Graphene on SiC(0001) by Fluorinated Fullerenes **Martina Wanke**	Tu-B19 Identification of structure and electronic states of $La_{0.75}Ca_3MnO_3$ surface by density functional theory **Yasunobu Ando**	Tu-C19 Synthesis of Polyphenylene wires by Ullmann polymerization on a copper-oxide surface **Gianluca Galeotti**	Tu-D19 Effects of pH and ionic strength on the surface charge density of self assembled monolayers (SAM) **Mats H. M. Olsson**	Tu-E19 Carbon dioxide activation on model Fe_3O_4 (111) thin films **Francesca Mirabella**
15.45-16.00	Tu-A20 Unravelling the roles of surface chemical composition and geometry for the graphene-metal interaction through C1s core-level spectroscopy **Francesco Presel**	Tu-B20 Direction of magnetization of Fe_3O_4 (111) surface **Kanta Asakawa**		Tu-D20 Interaction of alkali and alkali earth metal ions with benzene self-assembled monolayers **Jesper Matthiesen**	
16.00-16.30	Coffee-break (Exhibition area)				
	Session 31 I GRA Room A (Rooms 113+114) Chair: José Á. Martín-Gago Session sponsored by ICN2-Severo Ochoa	**Session 32 I OXI Room B (Rooms 127+128) Chair: Xavier Torrelles**	**Session 33 I SAS Room C (Rooms 129+130) Chair: Carmen Ocal**	**Session 34 I LSI+COL Room D (Rooms 131+132) Chair: Albert Verdaguer**	**Session 35 I SCR Room E (Rooms 133+134) Chair: András Berkó**
16.30-16.45	Tu-A21+22 Electronic Structure and Electron Dynamics in Two-Dimensional Materials **Philip Hofmann**	Tu-B21 Unique possibility of dual-use of Al2O3 layers in the functional nanostructures **Elena Filatova**	Tu-C21 Investigating the size distribution of $(C_{60/m})_n$-Au_n clusters on Au (111) with a VT-STM **Mahroo Rokni Fard**	Tu-D21 An Ultra-Low Noise, Liquid Environment Atomic Force Microscope **Uri Sivan**	Tu-E21 Strong metal-support interaction between Pt and Fe_3O_4: The support effects **Ke Zhang**
16.45-17.00		Tu-B22 Ab initio study of ways to improve adhesion at zinc/alumina interfaces **Ha-Linh Thi Le**	Tu-C22 Synthesis of Core Shell Heterogeneous Nanowires with Strong Raman Enhancement **Isabel Pita**	Tu-D22 The hydrophobic interaction probed by high resolution 3d force spectroscopy in water **Itai Schlesinger**	Tu-E22 Atomic-insight into the on-surface C-X bond activation **Qiang Sun**
17.00-17.15	Tu-A23 Mini-gaps in the electronic structure of graphene on Pt vicinal surface **Arlensiú Eréndira Celis Retana**	Tu-B23 Dielectric/metal structure: effect of the dielectric thickness on the secondary electron emission **Mohamed Belhaj**	Tu-C23 Lead nanoribbons on the Si(553) and Si(110) surfaces **Marek Kopciuszyński**	Tu-D23 Force reconstruction from dynamic AFM on differently terminated thiol SAMs **Annalisa Calò**	Tu-E23 STM-visualization of site selective adsorption of CO and O_2 around the 1D interface formed between mono-(bi-) layer Au and w-TiO-UTO films supported on Rh(111) **András Berkó**
17.15-17.30	Tu-A24 Tuneable band gap opening in graphene by high-temperatue hydrogenation **Jakob Jørgensen**		Tu-C24 Annealing temperature induced self-organization of thin Au layer deposited on Ge(001) reconstructed surface studied by high-resolution electron microscopy **Benedykt R. Jany**	Tu-D24 How nanobubbles nucleate at a hydrophobic/water interface **Shouh Hwang**	Tu-E24 Eley-Rideal Type Mechanism of Formate Synthesis from Carbon Dioxide on Cu Surfaces **Takahiro Kondo**
17.30-17.45	Tu-A25 Confinement effects in epitaxial graphene nanoflakes **Julia Tesch**		Tu-C25+26 Self-Organised Growth of Epitaxial Silicide Nanoislands **Ilan Goldfarb**	Tu-D25 Friction Reduction for Nanobubble at Water-HOPG Interface **Chih-Wen Yang**	Tu-E25 Photocatalytic and Photoelectrochemical Properties of Lanthanide-doped-Aurivillius Phase Layered Perovskites **Ceren Yılmaz**
17.45-18.00	Tu-A26 A structural and electronic characterisation of new C-C bond formation at the graphene basal plane **Andrew Cassidy**				
18.00-20.00	Poster session Tuesday (Exhibition area)				

Wednesday, 2 September 2015

08.00-16.00	Registration desk				
08.30-09.30	Room 113+114 I Plenary 2 Chair : Georg Held The dynamics of molecular interactions and chemical reactions at metal surfaces: Testing the foundations of theory **Alec M. Wodtke**, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany				
09.30-10.30	Room 113+114 I Plenary 3 Chair : Sefik Suzer Surface Chemistry and Catalysis of Gold: Spanning materials complexity and pressure **Cynthia Friend**, Prof. of Materials Science, Director of Rowland Institute, IMASC EFRC Director, Harvard University, Cambridge MA , USA				
10.30-11.00	Coffee-break (Exhibition area)				
	Session 36 I SMG Room A (Rooms 113+114) Chair: Juan de la Figuera	**Session 37 I M4E Room B (Rooms 127+128) Chair: Christine Mottet**	**Session 38 I SAS Room C (Rooms 129+130) Chair: TBA**	**Session 39 I SST Room D (Rooms 131+132) Chair: TBA**	**Session 40 I RTP+SDY Room E (Rooms 133+134) Chair: TBA**
11.00-11.15	We-A01 Non-collinear magnetic order in artificial mo-no-atomic wires driven by competing exchange interactions **David Serrate**	We-B01+02 Looking at the structure of organic-organic interfaces in solar cells **Esther Barrena**		We-D01 Using van der Waals DFT functionals to study diffractive scattering of noble gases from metal surfaces **Cristina Díaz**	We-E01 An In-situ GISAXS investiga-tion of the growth of Permalloy thin films on nano-rippled Si templates **Sarathlal Koyiloth Vayalil**
11.15-11.30	We-A02 Fingerprints of Degenerate and Non-Degenerate Spin Centers in Transport and Force Measurements by STM/AFM **Peter Jacobson**			We-D02 An STM/XPS study of the oxychlorination of Cu(111) and Cu(110) surfaces **Hatem Altass**	We-E02 Real-time stress measurement during Si surface reconstruc-tion and Ge nanodot growth on Si **Hidehito Asaoka**
11.30-11.45	We-A03 Spin Interface of Organic-Ferromagnetic Heterojunction **Yao-Jane Hsu**	We-B03 Dye-based solar cells via titania: Basic physics to appli-cations, what we learn from first-principle calculations **Ersen Mete**	We-C03+04 The role of functional groups for (supra)molecular assem-blies on surfaces **Meike Stöhr**	We-D03 Faceting of Rh(553) during CO oxidation **Chu Zhang**	We-E03 Determination of the Sb(111)-phonon dispersion relation using inelastic HAS measurements **Florian Apolloner**
11.45-12.00	We-A04 Magneto chemical interac-tions at the (CrTPP(Cl))/ Co(001) interface **Fotini Ravani**	We-B04 The role of (de)localized defects for Charge carrier separation at photoactive interfaces **Martin Rohrmüller**		We-D04 Surface roughening and interface effects during Co intercalation under Graphene on Ir(111) **Ilaria Carlomagno**	We-E04 A surface spin-echo study of hydrogen diffusion on Cu(111) **Peter Townsend**
12.00-12.15	We-A05+06 Chiral magnetic textures stabilized by interfaces: from domain walls to skyrmions **Stanislas Rohart**	We-B05 Modification of hematite electronic properties with trimethyl aluminum to enhance the efficiency of photoelectrodes **Massimo Tallarida**	We-C05 STM study of adsorption and supramolecular assembly of diarylethene **Tomoko Shimizu**	We-D05 Structure determination of gra-phene on metal substrate using total-reflection high-energy positron diffraction **Yuki Fukaya**	We-E05+06 Ultrafast surface chemistry and catalysis probed with optical and x-ray lasers **Henrik Öström**
12.15-12.30		We-B06 Two steps processes fabrica-tion of large scale CZTS thin film absorber for sustainable photovoltaics **Mac Mugumaoderha**	We-C06 Controlled assembly of 4,2':6',4"-terpyridine deri-vatives into different porous on-surface networks **Thomas Nijs**		
12.30-14.30	Free time for lunch				
	Session 41 I SMG Room A (Rooms 113+114) Chair: Juan de la Figuera	**Session 42 I M4E+MAQ Room B (Rooms 127+128) Chair: Antoni Ciszwski**	**Session 43 I SAS Room C (Rooms 129+130) Chair: Esther Barrena**	**Session 44 I SST+SPT Room D (Rooms 131+132) Chair: Francisco Ivars Barceló**	**Session 45 I TRI Room E (Rooms 133+134) Chair: TBA**
14.30-14.45	We-A07 Detecting Spin Excitations and Correlations in Scanning Tunneling Spectroscopy **Markus Ternes**	We-B07 Synergetic Effect of MoS2 - Graphene Nanosheets in Improving Photoelectroche-mical Performance of CdS Nanoparticles **Alireza Z. Moshfegh**	We-C07 Surface-Supported Robust Two-Dimensional Lanthani-de-Carboxylate Coordination Networks **Borja Cirera**	We-D07 Formation of amorphous networ-ks - finding order in chaos **Christin Büchner**	We-E07 Tribochemical Reactions of Diamond-like Carbon during Water Lubrication Process by Tight-Binding Quantum Chemical Molecular Dynamics Simulation **Shandan Bai**
14.45-15.00	We-A08 Radio Frequency Scanning Tunneling Spec-troscopy for Single-Spin Resonance **Stefan Mullegger**	We-B08 A Synchrotron Radiation X-ray Photoelectron Spec-troscopy Study of PbS/CdS core/shell Colloidal Quantum Dots **Philippa Clark**	We-C08 Transition metal phthalocya-nines adsorbed on Cu110: A massive surface reshaping mediated by metal-organic complexes **Mikel Abadia**	We-D08 Total-reflection high-energy positron diffraction (TRHEPD) analysis of the Ge(001)-c(8×2)-Au surface structure **Izumi Mochizuki**	We-E08 Friction Property of Oxidized MoS2 Layers by Tight-Binding Quantum Chemical Molecular Dynamics Simulation **Hiroki Murabayashi**
15.00-15.15	We-A09 Magnetic properties of ultra-thin Cr layers on Fe(100): surfactant effect of oxygen for the formation of a sharp interface **Giulia Berti**	We-B09 Type II Colloidal Quantum Dots - Depth-profiling XPS study of the effects of Oxida-tion and Halide Passivation on the Shell Structure **Atip Pengpad**	We-C09 Growth of Eu-Cycloocta-tetraenide Nanowires on Graphene **Felix Huttmann**	We-D09 Potassium adsorption on TiO2(110): structural and electronic investigation **Celine Dupont**	We-E09 Influence of DLC Film Structu-res on Its Friction Property by Quantum Chemical Molecular Dynamics Simulation **Takeshi Tsuruda**
15.15-15.30		We-B10 Structure, morphology and chemical ordering in nanoa-lloys: a theoretical study **Christine Mottet**	We-C10 Tailoring molecular self-as-sembly on nanostructured epitaxial graphene **Muriel Sicot**	We-D10 Formation of hexagonal Fe-N atomic layer on Cu (001) **Koichiro Ienaga**	We-E10 Biomimicking Butterfly Wing Surface Texture for Improved Tribological Performance **Eui-Sung Yoon**
15.30-15.45		We-B11 STM study of initial silicida-tion on Ni(001) **Tsuneo Fukuda**	We-C11 Ethylene decomposition on Ir(111): initial path towards graphene formation **H. Tetlow**	We-D11 An NMR study of crystalline and amorphous phases of vapor deposited ice **Elina Lisitsin**	We-E11 New halogen-free room temperature ionic liquids as external lubricants for different tribo-materials **Noelia Saurín**
15.45-16.00		We-B12 Single and binary films of immiscible Sn and Pb metals on Ru(0001) **Rafal Topolnicki**	We-C12 Self-assembly of 2D molecu-lar fractals: design rules from theoretical modeling **Paweł Szabelski**		
16.30	Optional tours (departure in front of the AC Barcelona hotel located nearby the venue, CCIB)				

Conference venue

ECOSS-31 is held at CCIB (Centre de Convencions International de Barcelona) located in Pl. de Willy Brandt 11-14, 08019 Barcelona (Tel. 932 30 10 00). The entrance door is door B. The nearest subway station is 'Maresme I Forum', subway line 4 (yellow line). Free Wi-Fi internet connection is provided. Please note that it is a complementary and basic service for delegates.

Registration

Registration is managed by Barceló Congresos. The registration desk is located in the first floor of the venue. Opening hours:

Sunday: 16.00-20.00 Wednesday: 08.00-16.00
Monday: 08.00-18.00 Thursday: 08.00-17.00
Tuesday: 08.00-18.00 Friday: 09.00-13.00

Speakers room

The speakers preview room is located in room 121 in the first floor of the venue. Speakers and presenting authors please deliver your presentations (PPT or PPTX) the day before your session. Opening hours:

Sunday: 16.00-20.00 Wednesday: 08.00-16.00
Monday: 08.00-18.00 Thursday: 08.00-17.00
Tuesday: 08.00-18.00 Friday: Closed

Posters

Posters will be displayed in the Exhibition area. The size of the poster must be 90 cm wide and 120 high maximum. Each poster will be only displayed for the day of the assigned poster session. Authors are kindly requested to be available for discussion during the designated session (Monday and Tuesday 18.00-20.00 and Thursday 17.00-19.00). Posters should be installed in the morning and removed after the poster session (no later than 20.15 h; 19.15 h on Thursday). Left over posters will be thrown away. Poster presentations are listed and numbered in the website. The same numbers are used for numbering the poster boards. Material to fix the posters on the panels is available in the poster area.

Certificate of attendance

The certificate of attendance will be sent to all delegates by email after the conference.

Coffees

Morning and afternoon coffee-breaks will be served in the Exhibition area. Please refer to this program for dates and times.

Lunch

Lunch is not included in the registration fee. Lunch time is from 12.30 to 14.30 h. There are restaurants and cafeterias in the shopping center 'Diagonal Mar' located nearby the venue. Bag-lunch tickets have been sold by the Organization in advance through the official registration form (tickets will be given at the registration desk). On-site tickets are not available. Bag-lunches will be distributed in the Exhibition area.

Optional tours

The optional tours, exclusively for ECOSS participants, will depart in front of the Hotel AC Barcelona located nearby the CCIB on Wednesday, 2 September at 16.30 h and will return to the same place. All tours are in English. Tours may be cancelled or modified without prior notice, if the minimum number of attendees (14 persons) is not meet. Tours are operated by Icono Serveis, Tel. 934 101 405 from 09.00 to 18.00 h.

Tours for accompanying persons

Icono Serveis offers a wide variety of tours during the week. Please refer to www.ecoss2015.org/optional_tours.htm for additional information.

Conference dinner

The conference dinner will take place on Thursday, 3 September at 20.30 h in the 'Museum Maritim' of Barcelona located in Av. Drassanes s/n, 08001 Barcelona (Tel. 933 42 99 20). The nearest subway station is 'Drassanes', subway line 3 (green line).
Admission: All registered delegates and accompanying persons who have re-confirmed their attendance through the official registration form.
Dress-code: business-casual.

Emergency number 112 I Taxi 933 033 033 I Airport 902 404 704

Thursday, 3 September 2015

08.00-17.00	Registration desk				
	Session 46 I GRA Room A (Rooms 113+114) Chair: Stephan Roche Session sponsored by ICN2-Severo Ochoa	**Session 47 I PFS Room B (Rooms 127+128) Chair: Jordi Fraxedas**	**Session 48 I POL Room C (Rooms 129+130) Chair: Jisheng Pan**	**Session 49 I SMC Room D (Rooms 131+132) Chair: Rubén Pérez**	**Session 50 I ELC Room E (Rooms 133+134) Chair: Carlos Escudero**
08.30-08.45	Th-A01 H-induced Graphene Etching as Origin of Polycyclic Aromatic Hydrocarbons Formation: From the Stars to the Laboratory **José I. Martínez**	Th-B01+02 Polarization-enabled electronic properties of hybrid 2D-ferroelectric structures **Alexei Gruverman**	Th-C01 Molecular Dynamics Study on Effects of Wettability of Surface on Proton Transport in Polymer Electrolyte Thin Films **Takashi Tokumasu**	Th-D01+02 Toward atom scale ultra low power electronic circuitry **Robert Wolkow**	
08.45-09.00	Th-A02 Oxygen reduction reaction on the basal plane of nitro-gen-doped graphene **Jun Nakamura**		Th-C02 Reversibly Photoswitchable Hydrophilic/Hydrophobic Surfaces **Dorothea Helmer**		
09.00-09.15	Th-A03 Nano-scale Observation of Graphene Oxide Using Scan-ning Tunneling Microscopy and Spectroscopy **Satoshi Katano**	Th-B03 Skin layers on multiferroic and relaxor single crystals **Neus Domingo Marimón**	Th-C03 Superhydrophobic Surfaces by Electrospinning **Asif Matin**	Th-D03 Scanning tunneling spectros-copy reveals a silicon dangling bond charge state transition **Hatem Labidi**	
09.15-09.30	Th-A04 Tuning the Redox Properties of Cobalt Particles Supported on Metal-oxides by an in-be-tween Graphene Layer **Wen Luo**	Th-B04 Switchable mechanical properties on ferroelectric materials **Rohini Kumara Cordero Edwards**	Th-C04 Characterization of buried interfaces of grafted polymer films using high kinetic energy photoemission **Laura Evangelio**	Th-D04 Surface phonon dispersion of the hydrogen-terminated Si(110)-(1×1) surface: Experi-ment and theory **Shozo Suto**	Th-E04+05 Operando XPS Studies of the Electrode Surface Stability in Electrochemical Energy Storage Systems **Daniil Itkis**
09.30-09.45	Th-A05 Chemical Functionalization of Graphene via Hyperthermal Molecular Ion-Surface Reaction **Stephan Rauschenbach**	Th-B05 Evolution of surface charge through the ferroelectric-pa-raelectric phase transition in BaTiO3(001) **Claire Mathieu**	Th-C05 Experimental and theoretical model of a poly-epoxy surfa-ce: formation and simulation of XPS spectra **Thomas Duguet**	Th-D05 From surface energetics to local work-function measurements on Ag/Si(111)-√3x√3-R30° with Low-Energy Electron Microscopy **Fabien Cheynis**	
09.45-10.00	Th-A06 Gold nanoparticules suppor-ted on carbon nanotubes for CO oxidation **Madjid Arab**	Th-B06 Contact-free surface pyroelectric measurements of organic crystals using CREM **Hagai Cohen**	Th-C06 Wrinkle as a chromaticity stabilizer and light out-coupler for OLED applications **Jaehyun Moon**	Th-D06 Visualization of intermediate surface structures during the growth of Ga on Ge(100) surface upon short temperature pulses **Dengsung Lin**	Th-E06 The formation and stability of aluminum oxides **Edvin Lundgren**
10.00-10.15	Th-A07+08 Chemistry above and below graphene **Jan Knudsen**		Th-C07 Direct bonding of glass and polymer film by adhesive-free molecular joining **Yasunori Taga**	Th-D07 MBE growth, structural and optical properties of Ga(Bi,As) layers and nanowires **Janusz Sadowski**	Th-E07 Direct correlations between XPS analyses and in-situ interfacial electrochemical responses of InP in liquid ammonia (-55°C) **Anne-Marie Gonçalves**
10.15-10.30					Th-E08 Oxygen reduction reaction activities and electrochemical stabilities for Pt/Pt_xNi_{1-x}(111) model catalyst surfaces **Toshimasa Wadayama**
10.30-11.00	Coffee-break (Exhibition area)				
	Session 51 I GRA Room A (Rooms 113+114) Chair: Cristina Africh Session sponsored by ICN2-Severo Ochoa	**Session 52 I NAM Room B (Rooms 127+128) Chair: Enrique Ortega**	**Session 53 I SAS Room C (Rooms 129+130) Chair: Meike Stöhr**	**Session 54 I BSS Room D (Rooms 131+132) Chair: Amina Taleb**	**Session 55 I ELC+COR Room E (Rooms 133+134) Chair: Carlos Escudero**
11.00-11.15	Th-A09 Molecules–Oligomers–Na-nowires–Graphene Nanorib-bons: Stepwise On-Surface Covalent Synthesis Preser-ving Long-Range Order **Francesco Sedona**		Th-C09 Steering the self-assembly of bridged triphenylamines on KBr(001) **Sabine Maier**	Th-D09+10 Angle-resolved photoemission form transition-metal tri-chal-cogenides **Moritz Hoesch**	Th-E09 Model catalysts of nitro-gen-doped graphitic carbons for oxygen reduction reaction **Junji Nakamura**
11.15-11.30	Th-A10 From Armchair to Zigzag and Beyond: Recent Progress in the Bottom-up Fabrication of Atomically Precise Graphene Nanoribbons **Carlos Sánchez-Sánchez**		Th-C10 Following the condensation process of Xe in quantum boxes sequentially, atom-by-atom **Sylwia Nowakowska**		Th-E10 Electrochemical switchable device based in ferroce-ne-SAMs for memory devices **Elena Marchante**
11.30-11.45	Th-A11 Surface-Assisted Poly-merization of Brominated Polyacenes on Cu(110) and Ag(110) Substrates **Igor Pis**	Th-B11 New developments in small spot and imaging Near Am-bient Pressure XPS **Andreas Thissen**	Th-C11 Intramolecular force contrast and dynamic current-distance measurements at room temperature **Sonia Matencio**	Th-D11 Surface States Dimensionality Transition of Bi(111) on a curved crystal **Jorge Lobo-Checa**	Th-E11 Self-assembled monolayers on oxidized platinum as platforms for biosensors **José María Alonso Carnicero**
11.45-12.00	Th-A12 Two-dimensional covalent-or-ganic frameworks (2D-COF) via Schiff-base condensation reactions between porphyrins **Ya Hu**	Th-B12 The ALBA spectroscopic LEEM-PEEM experimental station **Michael Foerster**	Th-C12 Heteromolecular surface-ba-sed self-assembly of thymine functionalised porphyrins **Matthew Blunt**	Th-D12 Electronic structure of TlBi alloy formed on Si(111) **Kazuyuki Sakamoto**	Th-E12 Thin films of water-based biopolymers for protection of reactive surfaces **Christian Fernández-Solis**
12.00-12.15	Th-A13+14 Bottom-up fabrication of graphene nanoribbons: From molecules to devices? **Roman Fasel**	Th-B13 Chemical Characterization of Graphene Based Devices by XPS **Sefik Suzer**	Th-C13 Molecular self-assembled structures of biphenyl dicar-boxylic acid: A comparison between Cu(111) and ultrathin CoO as substrate **Tobias Schmitt**	Th-D13 Surface states on vicinal Beryllium surfaces: two-dimensional quantum well states **Lukasz Walczak**	Th-E13 Fundamental Investigations of Sweet Oilfield Corrosion **Hadeel Hussain**
12.15-12.30		Th-B14 Initial and Final State Contributions to Core-Level Binding Energies: The Meaning and the Proper Use of Kohn-Sham Orbital Energies **Paul Bagus**	Th-C14 Self-assembly of functiona-lized indoles on Au(111) and Ag(111) surfaces **Fabrizio De Marchi**	Th-D14 Anomalous d-like Surface Resonance on Mo(110) Analyzed by Time-of-Flight Momentum Microscopy **D. Kutnyakhov**	Th-E14 Corrosion Inhibition Studies at the Atomic Scale: 8-Hydroxy-quinoline on pure Aluminum and Oxide **Fatah Chiter**
12.30-14.30	Free time for lunch				
	Session 56 I GRA Room A (Rooms 113+114) Chair: Jan Knudsen Session sponsored by ICN2-Severo Ochoa	**Session 57 I NAM Room B (Rooms 127+128) Chair: TBA**	**Session 58 I SAS Room C (Rooms 129+130) Chair: Ilan Goldfarb**	**Session 59 I BSS+TPI Room D (Rooms 131+132) Chair: Jorge Lobo**	**Session 60 I ADS Room E (Rooms 133+134) Chair: Clemens Barth**
14.30-14.45	Th-A15 Substrate-induced structural effects in graphene nanois-lands on Ni(111) **Aran García-Lekue**	Th-B15 Ultra-thin film x-ray diffraction using high energy photons **Florian Bertram**	Th-C15 Epitaxy and self-assembly of perylene on Ag(110) surface. **Kirill Bobrov**	Th-D15+16 Spin-orbit-induced spin textures of unoccupied states **Markus Donath**	Th-E15 Functional Group Adsorption on Calcite {10.4}: A combined DFT and XPS Study **Evren Ataman**
14.45-15.00	Th-A16 Enhanced chemical reactivity of pristine graphene strongly interacting with a substrate: chemisorbed CO on graphe-ne/Ni(111). **Mario Agostino Rocca**	Th-B16 Plasticity induced wear mechanisms in fretting wear of Ti-6Al-4V **Abdul Latif Mohd Tobi**	Th-C16 Self-Assembly of Aromatic Carboxylic Acids on Ag and Cu at the Liquid-Solid Interface **Manfred Buck**		Th-E16 Ab initio study of gas and hydrocarbon adsorption on Fe_3C surfaces **David Muñoz Ramo**
15.00-15.15	Th-A17 Engineering edge structure and electronic properties of graphene nanoislands by Au intercalation **Michele Gastaldo**	Th-B17 Magnetic resonance force microscopy designed for application at low and ultra-low temperature **Soonho Won**	Th-C17 Novel push-pull thiophene-ba-sed chromophores: synthesis, self-assembled monolayers and characterization **Lionel Patrone**	Th-D17 Rashba splitting in image po-tential state of Au(001) investi-gated by high energy-resolution circular dichroism two-photon photoemission spectroscopy **Takeo Nakazawa**	Th-E17 Adsorption of H_2O at Cleaved $Sr_{n+1}Ru_nO_{3n+1}$ and $Ca_3Ru_2O_7$ (001) Surfaces **Daniel Halwidl**
15.15-15.30	Th-A18 Characterization of the interface between graphene on SiC(0001) and adsorbed or intercalated cobalt islands by STM field emission reso-nance spectroscopy **Anastasia Sokolova**	Th-B18 Atomic Force Microscopy tip monitoring methods based on higher harmonic vibrations of the cantilever **Enrique Rull Trinidad**	Th-C18 Probing Photostationary Sta-tes of Photochromic SAMs by Two-Photon Photoemission Spectroscopy **Cornelius Gahl**	Th-D18+19 Interfacing 3D topological insulators with surface pertur-bations: from single adatoms to self-assembled molecular overlayers **Paolo Sessi**	Th-E18 Surface chemistry of water on magnetite thin films **Petr Dementyev**
15.30-15.45	Th-A19 Switchable graphene-subs-trate coupling through formation/dissolution of an intercalated Ni-carbide layer **Laerte Patera**	Th-B19 Autopilot for FM-AFM **Kfir Kuchuk**	Th-C19 2D Solution processed host-guest arrays for the elaboration of donor-acceptor systems **Andrés Lombana**		Th-E19 Adsorption and Reactivity of Single Metal Adatoms at the Fe_3O_4(001) Surface **Roland Bliem**
15.45-16.00	Th-A20 Graphene on Ir structure by synchrotron X-rays **Gilles Renaud**	Th-B20 Site-dependent Josephson current from tunneling to atomic contact: Scanning tunneling microscopy and spectroscopy study **Howon Kim**	Th-C20 2D folding and self-assembly of peptides on surfaces **Sabine Abb**	Th-D20 Adsorption of organic and metallorganic molecules on Bis-muth Selenide: investigating the robustness of surface states **Marco Caputo**	Th-E20 Density Functional Theory study of adatom adsorption on metal supported thin Zirconia films **Wernfried Mayr-Schmölzer**
16.00-16.15	Th-A21 Graphene on C-terminated face of 4H-SiC studied by noncontact scanning nonli-near dielectric potentiometry **Kohei Yamasue**	Th-B21 Developments of a total-re-flection high-energy positron diffraction station at the KEK Slow Positron Facility **Ken Wada**	Th-C21 1,4-Phenylene Diisocyanide Adsorption on Metals In-vestigated by Broad Band Sum frequency Generation Spectroscopy and Scanning Tunneling Microscopy: From Single Crystals to Supported Nanoparticles **Ahmed Ghalgaoui**	Th-D21 Surface atomic structure and reactivity of prototypical topolo-gical insulators and topological crystalline insulators **Lada Yashina**	Th-E21 Sub-surface incorporation of 3d metal atoms into Bi(111) films studied by density-func-tional theory **N. J. Vollmers**
16.15-16.30	Th-A22 Atomic and electronic struc-ture of epitaxial graphene on SiC: from the flat surface to sidewall nanoribbons **Antonio Tejeda**	Th-B22 Total Reflection High-Energy Positron Diffraction (TR-HEPD): A Powerful Tool for Surface Studies **Ayahiko Ichimiya**	Th-C22 The study of self-assembling of polar C60F18 molecules on Au(111) **Vladimir Stankevich**	Th-D22 $BiAg_2$ Rashba surface alloy: Spin-flip electron scattering **S. Schirone**	Th-E22 Diindenoperylene adsorption on Cu(111) studied with density-functional theory **Hazem Aldahhak**
16.30-16.45	Th-A23+24 CVD graphene growth and characterisation by in-situ and in-operando STM studies **Cristina Africh**	Th-B23 An improved positron diffraction: total-reflection high-energy positron diffraction (TRHEPD) and its applications **Toshio Hyodo**		Th-D23 Spin Dynamics of Hot Carrier in the Topological Insulator Bi2Se3 **C. Cacho**	Th-E23 Adsorption and thermal dis-sociation of CO Molecules on Si(001)-2x1 and Si(111)-7x7 **Ja-Yong Koo**
16.45-17.00		Th-B24 Combined molecular beam and matrix isolation methodo-logy for the separation, trap-ping and storage of nuclear spin isomers of water **Jonathan Vermette**			Th-E24 Reactivity mechanism of ex-change-split infinite graphene from first-principles method **Mary Clare Sison Escano**
17.00-19.00	Poster session Thursday (Exhibition area)				
20.30	Conference dinner at the 'Museu Maritim' of Barcelona				

Friday, 4 September 2015

09.00-13.00	Registration desk
09.30-10.30	Room 113+114 I Plenary 4 Chair : Caterina Biscari Atomic-Level Control of Two Dimensional Material Growth: From Quantized Anomalous Hall Effect to Interface-Enhanced High Tc Superconductivity **Qi-Kun Xue**, Professor of Physics, Vice President for Research, Tsinghua University, Beijing, China
10.30-11.00	Coffee-break (Exhibition area)
11.00-12.00	Room 113+114 I Plenary 5 Chair : Caterina Biscari Reversible phase transitions on semiconductor surfaces and dynamical fluctuations: soft modes, correlation effects and molecular diffusion **Fernando Flores (EPS Invited Speaker)**, Universidad Autónoma de Madrid, Spain
12.00-12.45	Room 113+114 I Closing ceremony I Best oral and poster awards