



**ALBA User Meeting 2013 and VI AUSE Conference**  
**Programme**



Tuesday, September 3rd			
<b>13:00</b>	-	<b>15:00</b>	<i>Inscription and lunch</i>
15:00	-	15:20	Welcome <b>Dr. Caterina Biscari</b> , ALBA Director <b>Dr. María E. Dávila</b> , AUSE President
15:20	-	16:10	Invited talk: "MAX IV beamlines" <b>Dr. Franz Hennies</b> Coordinator MAX IV beamline project, Lund, Sweden
16:10	-	16:30	Oral contribution: High-Pressure Cell for in situ X-ray absorption studies of nanocatalysts <b>Dr. Carlos Escudero et al.</b>
16:30	-	16:50	Oral contribution: Time-Resolved Magnetic and Structural Study on the Biomineralization Process of Magnetite in Magnetotactic Bacteria <i>Magnetospirillum gryphiswaldense</i> <b>Dr. Ma. Luisa Fdez-Gubieda et al.</b>
16:50	-	17:10	Oral contribution: Evidence of hole states in nanostructured NiO thin films observed by X-ray absorption spectroscopy <b>Dr. Alejandro Gutiérrez et al.</b>
17:10	-	17:30	Oral contribution: Controlled Enrichment of Wheat Selenoaminoacids by Chemical Tuning Using Synchrotron XANES Techniques <b>Dr. Manuel Valiente et al.</b>
<b>17:30</b>	-	<b>19:30</b>	<i>Coffee and posters discussion: ALBA &amp; AUSE Users</i>
<i>The authors registered as poster price contender should be present to answer the selection committee questions.</i>			
<b>19:45</b>	<b>Buses to Hotel Campus, UAB</b>		

## Wednesday, September 4th

<b>8:30</b>		<b>Buses to ALBA</b>		
9:00	-	9:50	Invited talk: "Overview of XFEL and specially about the users consortia"	<b>Dr. Serguei Molodtsov</b> Scientific Director of XFEL.EU, Hamburg, Germany
9:50	-	10:10	Oral contribution: Molecular Packing in Polymer:Fullerene Organic Solar Cells	<b>Dr. Nichole Cates Miller et al.</b>
10:10	-	10:30	Oral contribution: From Channel-Forming Ionic Liquid Crystals Exhibiting Humidity-Induced Phase Transitions to Nanostructured Ion-Conducting Polymer Membranes	<b>Dr. Jaime J. Hernández et al.</b>
10:30	-	10:50	Oral contribution: Grazing Incidence Small Angle X-Ray Scattering (GISAXS) as a tool for characterization and optimization of polymer nanostructures	<b>Dr. I. Martín Fabiani et al.</b>
<b>10:50</b>		<b>- 11:20</b>		<b><i>Coffee break</i></b>
11:20	-	11:50	Talk given by the winner of the AUSE price to the best Doctorate Thesis using Synchrotron Radiation 2011/2012	<b>Dr. Immaculada Martínez Rovira</b>
11:50	-	12:10	Oral contribution: The quatsome concept investigated through a combination of molecular dynamics simulation and synchrotron SAXS data	<b>Dr. Evelyn Moreno-Calvo et al.</b>
12:10	-	12:30	Oral contribution: Amino Acid Modifications Unraveled Through High Resolution Data Obtained Using Synchrotron Radiation	<b>Dr. Sergio Martínez-Rodríguez et al.</b>
12:30	-	12:50	Oral contribution: Automatic Segmentation of Spherical Structures in Soft-X ray images Using the Circular Hough Transform	<b>Dr. Rubén Cárdenes et al.</b>
12:50	-	13:10	Oral contribution: Synchrotron X-ray microtomography: applications to material science	<b>Dr. Federico Sket et al.</b>

<b>13:10</b>	-	<b>14:30</b>	<b>Lunch</b>	
14:30	-	15:20	Invited talk: "ESRF Upgrade"	<b>Dr. Harald Reichert</b> Scientific Director of ESRF, European Synchrotron Radiation Facility
15:20	-	15:40	Oral contribution: Structural phase transitions in RFe <sub>2</sub> O <sub>4</sub> (R= Tm, Yb, Lu, Y) studied by high resolution x-ray diffraction	<b>Dr. Javier Blasco et al.</b>
15:40	-	16:00	Oral contribution: Time-resolved resonant magnetic scattering study of the ultrafast demagnetization of stripe domains using the low- $\alpha$ mode at SOLEIL synchrotron	<b>Dr. Víctor López-Flores et al.</b>
16:00	-	16:20	Oral contribution: Resonant X-Ray Scattering of the incommensurate lattice modulations in La <sub>0.4</sub> Sr <sub>1.6</sub> MnO <sub>4</sub> .	<b>Dr. Joaquín García et al.</b>
16:20	-	16:50	Keynote talk: "Status of SpLine"	<b>Dr. Germán Castro</b> SpLine beamline responsible, Spanish CRG-beamline at ESRF
<b>16:50</b>	-	<b>17:15</b>	<b>Coffee break</b>	
17:15	-	18:15	Round table: "Use of synchrotron radiation by the Spanish scientific community"	
18:15	-	19:30	AUSE general assembly	
<b>19:45</b>			<b>Buses to Hotel Campus, UAB</b>	

<b>Thursday, September 5th</b>				
<b>8:30</b>			<b>Buses to ALBA</b>	
9:00	-	9:30	"ALBA status, possible collaborations, 2014 call-for-proposals and perspectives"	<b>Dr. Miguel A. G. Aranda</b>
9:30	-	9:50	"MSPD status & near-future upgrades"	<b>Dr. François Fauth</b>
9:50	-	10:10	"CLÆSS status & near-future upgrades"	<b>Dr. Vera Cuartero</b>
10:10	-	10:30	"CIRCE status & near-future upgrades"	<b>Dr. Lucia Aballe</b>
10:30	-	10:50	"BOREAS status & near-future upgrades"	<b>Dr. Manuel Valvidares</b>
<b>10:50</b>		<b>11:20</b>	<b>Coffee Break</b>	

11:20	-	11:50	Oral contribution for MSPD: Powder Diffraction. Cluster-based direct methods to Mythen-II synchrotron powder diffraction data of organic compounds	<b>Dr. Oriol Vallcorba et al.</b>
11:50	-	12:10	Oral contribution for MSPD: High-pressure Diffraction. Study of the structural evolution of In <sub>2</sub> O <sub>3</sub> polymorphs under pressure	<b>Dr. J.A. Sans et al.</b>
12:10	-	12:30	Oral contribution for CIRCE - PEEM. Strain Mediated Electric Field Manipulation of Spin Structure in Nickel Nanostructures on PMN-PT	<b>Dr. M. Foerester et al.</b>
12:30	-	12:50	Oral contribution for BOREAS. Understanding the $\epsilon$ -Fe <sub>2</sub> O <sub>3</sub> polar magnet with synchrotron radiation	<b>Dr. M. Gich et al.</b>
12:50	-	13:10	Invited talk: "The mind has no sex?"	<b>Dr. Adela Muñoz</b> Universidad de Sevilla
13:10	-	13:30	Round table: Women in Science	
<b>13:30</b>	-	<b>14:30</b>	<b>Lunch</b>	
14:30	-	14:50	"MISTRAL status & near-future upgrades"	<b>Dr. A. Sorrentino</b>
14:50	-	15:10	"NCD status & near-future upgrades"	<b>Dr. Juan C. Martínez</b>
15:10	-	15:30	"XALOC status & near-future upgrades"	<b>Dr. Jordi Juanhuix</b>
15:30	-	15:50	Oral contribution for NCD. Synchrotron Studies of Mesophases in Polymeric Systems	<b>Dr. E. Pérez et al.</b>
15:50	-	16:10	Oral contribution for XALOC. Structural basis for DNA binding by the auxin-dependent ARF transcription factors	<b>Dr. Roeland Boer et al.</b>
16:10	-	16:40	ALBA accelerators	<b>Dr. Montse Pont</b>
16:40	-	17:30	Coffee and poster discussion: AUSE & ALBA users	
17:30	-	18:10	ALBA Strategic Plan 2013-2016	<b>Dr. Salvador Ferrer</b>
18:10	-	19:10	General Discussion on the ALBA Strategic Plan 2013-2016	
<b>19:15</b>			<b>Bus to Hotel Campus, UAB</b>	
21:00			Gala Dinner (with the presentation of the best poster prizes)	
<b>0:00</b>			<b>Buses to Hotel Campus, UAB</b>	

## Satellite Workshop

<b>Friday, September 6th</b>			
<b>8:20</b>	<b>Buses to ALBA</b>		
8:30	-	8:50	Inscription (for the participants of just this workshop)
8:50	-	9:00	Introduction to the conference "Biomedical applications of synchrotron radiation" <span style="float: right;"><b>Dr. Miguel A. G Aranda</b></span>
9:00	-	10:00	Invited talk: "Biomedical applications of IR synchrotron radiation" <span style="float: right;"><b>Dr. Paul Dumas</b> Main scientist of SOLEIL infra-red microscopy beamline, Paris, France</span>
10:00	-	11:00	Invited talk: "Drug development and synchrotron radiation" <span style="float: right;"><b>Dr. Jordi Benach</b> Beamline scientist of ALBA macromolecular crystallography beamline, Barcelona</span>
11:00	-	11:30	<i>Coffee break</i>
11:30	-	12:30	Invited talk: "Cartography of a whole cell by cryo- synchrotron X-ray nano-tomography " <span style="float: right;"><b>Dr. José L. Carrascosa</b> Centro Nacional de Biotecnología, CSIC-Madrid</span>
12:30	-	13:30	Invited talk: "SAXS biomedical imaging: present and perspectives" <span style="float: right;"><b>Dr. Manuel Fernández</b> Xenocs, France</span>
13:30	-	15:00	<i>Lunch</i>
15:00	-	16:00	Invited talk: "Imaging cells and tissues by synchrotron X-ray fluorescence" <span style="float: right;"><b>Dr. Richard Ortega</b> CNRS research director, Centre Etudes Nucléaires de Bordeaux Gradignan, France</span>
16:00	-	17:00	Invited talk: "Analysis of the in-vitro therapeutic effectiveness of synchrotron radiation split in space: Mini-beam treatment of radioresistant tumors" <span style="float: right;"><b>Dr. Manel Sabes</b> Universitat Autònoma de Barcelona</span>
17:00	-	18:00	<i>Coffee with exchange between participants, speakers and beamline scientists of ALBA</i>
18:00	-	19:30	Visit to ALBA for the interested participants