

October 22

8.30 - 9.30	Reception, inscription, etc.	
9.30	opening ceremony	
	Invited presentation	
9.30-10.30	Ian Munro	What is SR good for: from earthworms to van Gogh
	PAINTINGS	
10.30	<u>K. Janssens</u> , J. Dik, G. Van der Snickt, L. Van der Loeff, K. Rickers, M. Cotte	Vizualization of a Hidden Van Gogh Painting by means of High-Energy XRF mapping and other methods
10.45	A. Duran, J. Castaing, P. Walter	Studies of Pompeian Wall Paintings using Synchrotron high resolution X-Ray diffraction and laboratory systems
11.00	break	
	PAINTINGS	
11.30	Trujillo, J. Oosterbeek, L. Muñoz, G	Archaeometry of rock art paintings: La Piedra de la cuadrícula (Suacha, Cundinamarca, Colombia).
11.45	A.Lluveras, J.Roque, S.Boularand, M.Vendrell	Degradation of blue pigments in frescoes paintings: formation and distribution of copper carbonate, chlorides and oxalates from azurite.
12.00	L.K Herrera, S. Montalbani, G. Chiavari, M. Cotte, A. Duran, A. Justo, J.L Perez-Rodriguez	Characterization of azurite and malachite pigments by combined application of X-ray diffraction/X-ray fluorescence in the cross sections from Spanish baroque paintings
12.15	<u>C. Dejoie</u> , E. Dooryhée, P. Martinetto, S. Blanc, P. Bordat, R. Brown, F. Porcher, P. Richardin, E. Van Elslande, Ph. Walter, M. Sanchez del Rio	Synthesis and characterization of Maya Blue analogous hybrid pigments
LUNCH TIME		
	Invited presentation	
15.00-15.45	Trinitat Pradell	Islamic luster: from Alchemy to Nanoscience
	CERAMICS / STONE	
15.45	L. Leon, Ph. Sciau, Ph. Goudeau, A. Mehta, S. Webb, N. Tamura	Combined XRF and XRD sample surface mapping studies: the nature of marbled Terra Sigillata Slips from La Graufesenque (France).
16.00	J. Barrio, J. Chamón, C. Gutierrez, A. Climent-Font	Study of medieval enamelling on gilded objects combining PIXE and SEM-EDAX
16.15	M.Zurakowska, M.Ellis, E. Pantos, J. J.Hughes	Characterisation of soiling and iron oxide patination of calcareous arenitic sandstones from Glasgow, by micro-XRD, SEM and optical petrography
16.30	M. Pantos, K. Exell, W. Kocklemann, Z. Kasztovszky, M. Ellis, M. Morlidge, B. Bilsborrow	Mineralogical characterisation of limestone from the Great Pyramids and limestone quarries along the Nile.
16.45	break	
	ORGANIC MATERIALS	
17.15	<u>S. Bugani</u> , S. Cagno, P. Cloetens, G. Giachi, K. Janssens, J. J. Łucejko, F. Modugno, L. Morselli	Evaluation of consolidation treatments on waterlogged archaeological wood by means of synchrotron light X-ray microtomography
17.30	L.K Herrera, A. Duran, M.C. Jimenez de Haro, M.L Franquelo, A. Justo, J.L Perez Rodríguez	Identification of cellulose fibres belonging to Spanish cultural heritage using synchrotron high resolution x-ray diffraction
17.45	T. Azizipoor, P. Masjedi, F. Khademi Naooshan	Factors of Differences in chemical composition of Teeth by WLXRF & PIXE instrument
18.00	C. Chadefaux, K. Müller, A. Gourrier, O. Paris, I. Reiche	Synchrotron SAXS/WAXS investigation of archaeological bone and antler from the Neolithic lake site of Chalain (France)

October 23

9.30 - 13.00 Guided visit to Santa Maria del Mar

Santa Maria del Mar is one of the most important and impressive Gothic buildings in Barcelona. It belongs to the so-called Meridional Gothic style, quite different from the constructions of the same period in centre Europe. The overview of Barcelona from the terraces is unforgettable.

LUNCH TIME

Invited presentation

- 15.00-15.45 I. Mantouvalou, T. Wolff, W. Malzer, M. Pagels, L. Lühl, K. Lange, R. Schütz, C. Seim, B. Kanngießer
3D Micro-XRF in art and archaeology – new quantification strategies
- METALS**
- 15.45 M. Rodrigues, F. Cappo, M. Schreiner, P. Ferloni, M. Radtke, U. Reinholz, B. Woytek, M. Alram
Scientific investigations on Roman silver coins of the emperor Trajan (AD 98–117)
- 16.00 S. Reguer, S. Hollner, F. Mirambet, E. Rocca, D. Testemale
X-ray absorption spectroscopy studies on new environmentally-friendly inhibitors used as rust converters for the preservation of metallic artefacts.
- 16.15 P. Manti, D. Watkinson, W. Kockelmann, E. Pantos
Characterization of tinning on ancient bronzes using neutron diffraction and SR-XRD.
- 16.30 S. Leroy, P. Dillmann, B. Gratuze
A diffusion study of mediaeval ferrous products using trace elements microanalyses: the case of Italian armours
- 16.45 **break**
- METALS**
- 17.15 J. Monnier, S. Reguer, D. Vantelon, P. Dillmann, F. Mirambet, D. Neff, I. Guillot
X-rays absorption study on medieval corrosion layers for the understanding of very long term indoor atmospheric iron corrosion
- 17.30 B. Constantinescu, A. Vasilescu, M. Radtke, U. Reinholz
Micro-SR-XRF studies for archaeological gold identification – the case of Carpathian (Transylvanian) gold and of dacian bracelets
- 17.45 M. Rodrigues, M. Schreiner, M. Mäder, M. Melcher, M. Guerra, J. Salomon, M. Radtke, M. Alram, N. Schindel
The Hoard of Beçin - non-destructive analysis of the silver coins
- 18.00 L.K Herrera, A. Justo, J. A. Sans, G. Martínez-Criado, Adela Muñoz-Paez
Chemical composition of the metal pipe of a Spanish baroque organ as determined by mXRF
- 19.00 **TAPA'S PARTY at the 14th century ancient hospital of Santa Creu**

October 24

Invited presentation

- 9.00-9.45** M. Cotte, J. Chillida, Y. Taniguchi, E. Checroun, J. Susini Application of Synchrotron-based x-ray and infrared spectroscopy to the chemical analysis of painting micro-fragments

PAINTINGS/GLASS

- 9.45** A. Gianoncelli, B. Kaulich, A. Longoni, T. Klatka, R. Alberti, M. Kiskinova Imaging and chemical investigation of cultural heritage objects with the European TwinMic X-ray microscopy station at Elettra.
- 10.00** N. Salvadó, S. Butí, J. Nicholson, H. Emerich, A. Labrador, T. Pradell Application of Synchrotron Radiation micro XRD and FTIR in the study of early oil 15th century altar-pieces from the Crown of Aragon
- 10.15** P.Colomban, L.Bellot-Gurlet, A.Tournié Raman structural characterisation of ancient glasses: from lab and on-site measurements to SR beam line experiments?

10.30 break

ORGANIC MATERIALS

- 11.00** Glab, J. Dehydration: a mechanism for the preservation of fine detail in fossilized soft tissue of ancient terrestrial animals; an X-ray diffraction study
- 11.15** L G Gonzalez, T. J. Wess, The interaction of Isopropyl alcohol with Parchment
- 11.30** K. Thomas, T. J. Wess, The effect of relative humidity on the structural integrity of collagen present in parchment
- 11.45** Moderator: Eric Dooryhée **State-of-the-art of the use of SR in Cultural heritage**

LUNCH TIME

Invited presentation

- 15.00-15.30** Salvador Ferrer ALBA light source: present status and perspectives
- 15.30** P. Manti, P. Nicholson, A. Smith, M. Ellis, F. Mosselmans, T. Pradell, M. Pantos The craft and science of Egyptian faience: the case of the step pyramid tiles.
- 15.45** J. Roque-Rosell, J. Molera, F. Mosselmans, A. Smith, J. Portillo, J. Mendoza, M. Vendrell-Saz. Synchrotron techniques and ethnographic analogy to unveil large scale lustre ceramic production in the Aragon Crown from 13th to 16th AD centuries.
- 16.00** P. Dararutana, S. Pongkrapan, K. Won-in, P. Wathanakul, N. Sirikulrat Synchrotron radiation investigation of ancient Thai glass samples
- 16.15** Pradell, T., Molera, J. Labrador, A. Synchrotron Radiation micro XRD in the study of glaze technology

16.30 break

round table

- 17.00** **Closing round table, next venue, etc.**