

**Scientific Programme
& Daily Schedule**

TECHNART 2017

TABLE OF CONTENTS

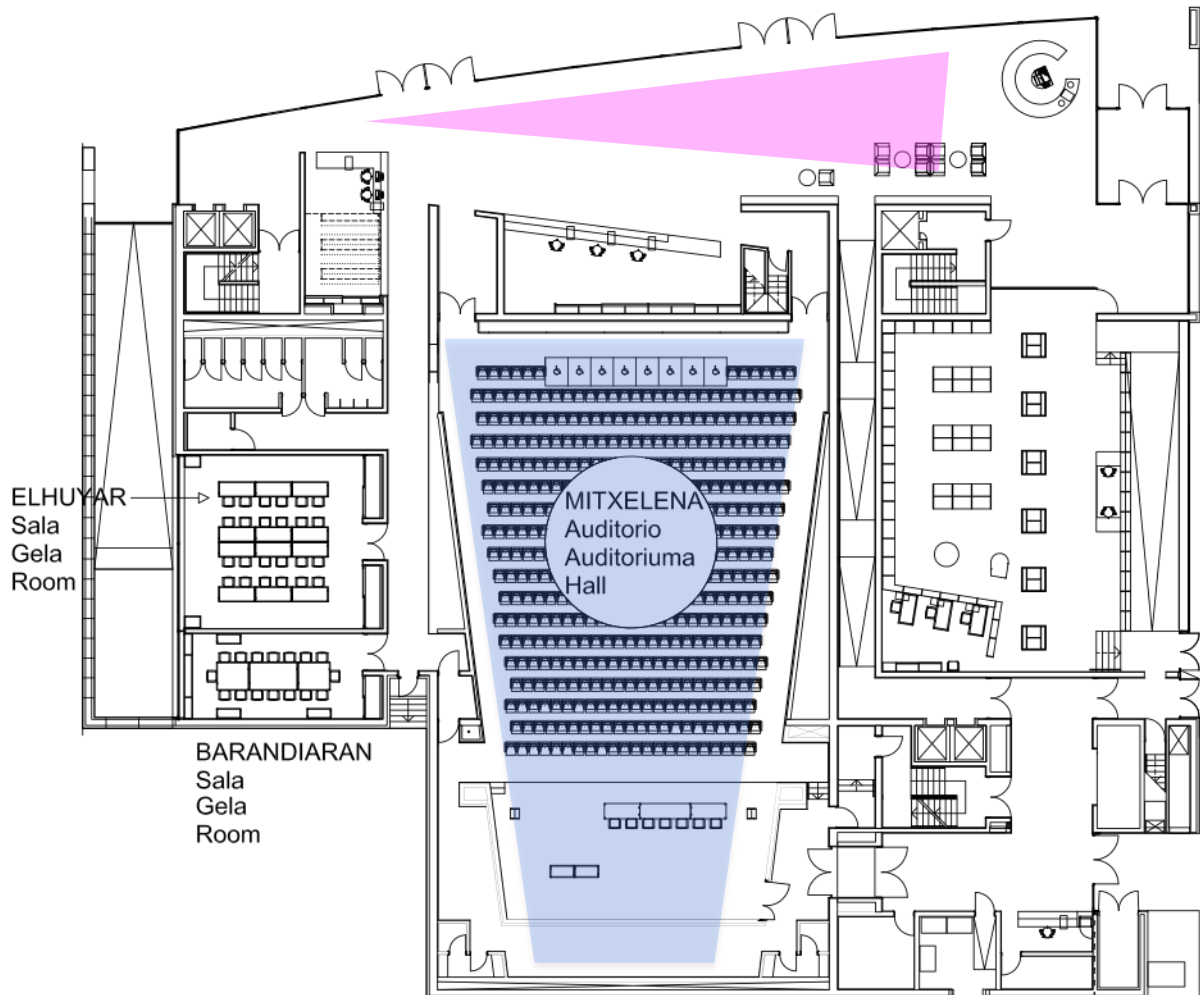
TABLE OF CONTENTS	3
LOCATION OF CONFERENCE, POSTER SESSION AND SPONSOR ROOMS	5
GROUND FLOOR OF THE BIZKAIA ARETOA:	5
1 ST FLOOR OF THE BIZKAIA ARETOA:	6
2 ND FLOOR OF THE BIZKAIA ARETOA	7
SCHEDULE OF THE CONFERENCE	8
1. TUESDAY, MAY 2	8
2. WEDNESDAY, MAY 3	12
3. THURSDAY, MAY 4	16
4. FRIDAY, MAY 5	20
POSTER SESSION	24
1. TUESDAY, MAY 2	24
2. WEDNESDAY, MAY 3	29
3. THURSDAY, MAY 4	33
INFORMATION FOR THE GALA DINNER	38
EXCURSION INFORMATION	39
WIFI ACCESS	40
INFORMATION FOR THE FREE ACCESS TO THE MUSEUMS	41
ACKNOWLEDGEMENTS, COLLABORATION AND SPONSORING	43

LOCATION OF CONFERENCE, POSTER SESSION AND SPONSOR ROOMS

GROUND FLOOR of the Bizkaia Aretoa:

MITXELENA Hall: Plenary Lectures and Oral Presentations (Session A),
441 seats.

Reception Room: Sponsor Site (I)

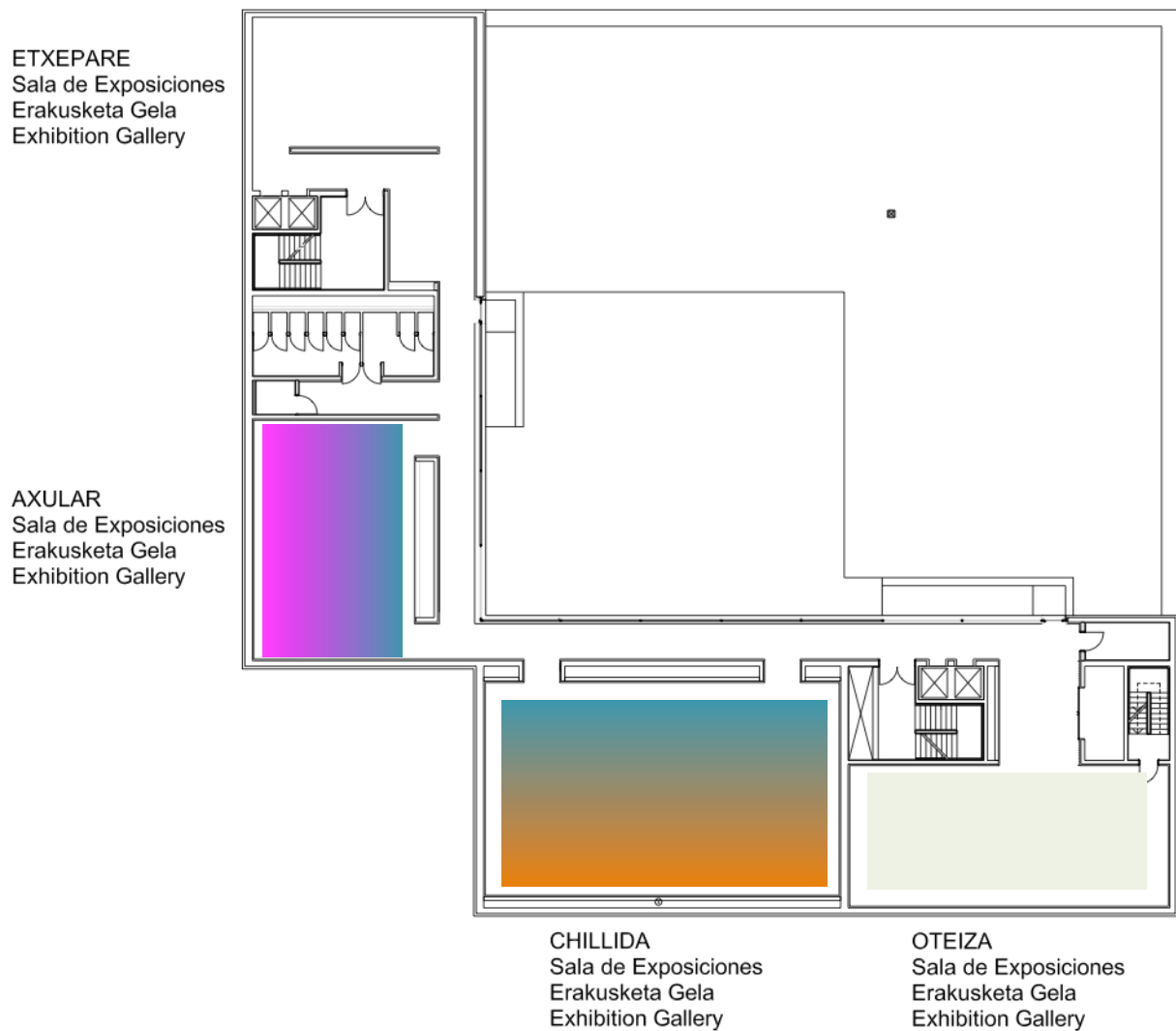


1st FLOOR of the Bizkaia Aretoa:

OTEIZA Gallery: Oral Presentations (Session C), 85 seats

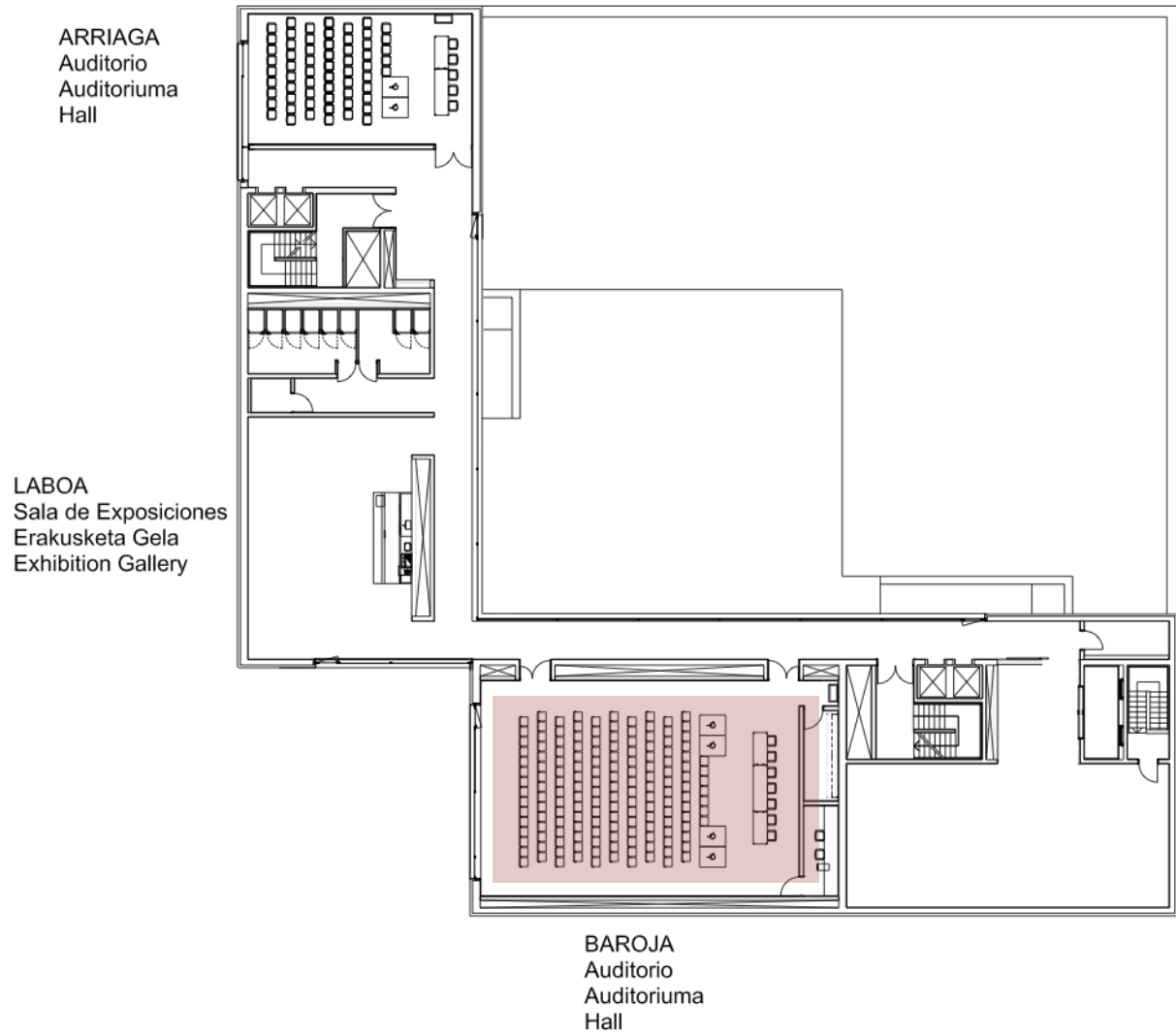
CHILLIDA Gallery: Poster Presentations and Coffee Break/Lunch site (I)

AXULAR Gallery: Sponsor Site (II) and Coffee Break/Lunch site (II)



2nd FLOOR of the Bizkaia Aretoa

BAROJA Hall: Oral Presentations (Session B), 161 seats



SCHEDULE OF THE CONFERENCE

1. Tuesday, May 2

8:00-9:00	Registration
9:00-9:20	Opening
9:20-10:10	Plenary Lecture 1: Potential of Micro-SORS for Cultural Heritage by Claudia Conti.
Parallel session A (Mitxelena Hall)	
10:10-10:30	MA-XRF scanning as tool in authentication studies of paintings. S. Saverwyns, E. Lamas-Delgado, C. Currie and M. Van Bos
10:30-10:50	Moisture transport and sorption in oil-painted linen canvas documented by X-ray and neutron imaging. D. Derome, R. Hendrickx, S. Carl, G. Desmarais, D. Mannes, A. Kaestner, E. S.B. Ferreira
10:50-11:10	A novel mobile X-ray scanner integrating MA-XRF, μ XRF and confocal-XRF for a real-time elemental imaging of painted artworks- F.P. Romano, C. Caliri, P. Nicotra, S. Di Martino, L. Pappalardo, F. Rizzo, H.C. Santos
Parallel session B (Baroja Hall)	
10:10-10:30	A novel methodological approach for the assessment of surface cleaning of acrylic emulsion paints. T. Fardi, V. Pintus, E. Kampasakali, E. Pavlidou, K. G. Papaspyropoulos, M. Schreiner, G. Kyriakou
10:30-10:50	Insight on colour change and chemical alteration of green copper-based organometallic painting pigments. M. Alter, A.-S. Le Hô, C. Doublet, D. Gourier, L. Binet, N. Touati, F. Mirambet, N. Lubin-Germain
10:50-11:10	Elucidating Daguerreotype Degradation By Surface Species Formation Using Surface Plasmon Resonance Scattering Spectroscopy. A. E. Schlather, S. A. Centeno
Parallel session C (Oteiza Gallery)	
10:10-10:30	Advanced extraction and analytical methods applied to discrimination of different lichen species used for orcein dyed yarns. I. Serafini, L. Lombardi, M. Aceto, E. Calà, A. Idone, F. Sciubba, M. Guiso, A. Bianco
10:30-10:50	Identification and classification of textile fibres using ATR-FT-IR spectroscopy with chemometric methods. P. Peets, S. Vahur, I. Leito
10:50-11:10	Surface Enhanced Raman Spectroscopy of Antraquinone-aluminum complexes on Dyed Fibers. T. Aguayo

11:10-11:50	Coffee Break
Parallel session A (Mitxelena Hall)	
11:50-12:10	Removal of absorption artefacts in the macro-XRF imaging of paintings. P. M. Wrobel, P. Fraczek, M. Lankosz
12:10-12:30	Macro XRF scanning: New opportunities for non-destructive analysis of two episcopal mitres, attributed to bishop Jacques de Vitry (12-13 th c. AD). I. Vanden Berghe, M. Van Bos
12:30-12:50	Scanning X-ray fluorescence imaging for evaluation of platinum prints and other 19 th -20 th century photographs. L. Smieska, A. Lundgren, N. Kennedy, S. A. Centeno
12:50-13:10	Use of Macro-scale Tri-Modal Imaging Spectroscopy To Map and Identify Faded Organic Red Lakes in Van Gogh Paintings J. K. Delaney, K. Dooley, C. Miliani, K. Janssens
13:10-13:30	Spatially resolved X-ray fluorescence: State of the ART. R. Tagle, M. Bügler, F. Reinhardt, U. Waldschläger
Parallel session B (Baroja Hall)	
11:50-12:10	Analytical challenges in studying degradation processes in paintings: ultramarine disease. A. A. Gambardella, K. Schnetz, R. van Elsas, P. Iedema, K. Keune
12:10-12:30	Combining synchrotron photoluminescence imaging and microspectroscopy to study zinc white degradation in oil paint. S. Hageraats, K. Keune, A. van Loon, B. Berrie, M. Thoury
12:30-12:50	Influence of lead white and cobalt blue on the degradation of Eosin lakes. A. Álvarez-Martín, K. Janssens
12:50-13:10	Blanching of paint and varnish layers: from the characterization to the development of conservation treatments. A. Genty-Vincent, M. Eveno, W. Nowik, G. Bastian, E. Ravaud, J. Uziel, R. Giorgi, P. Baglioni, N. Lubin-Germain, M. Menu
13:10-13:30	Role of defects in the reactivity of Cd-yellow. L. Giacometti, A. Satta, A. Nevin, D. Comelli, G. Valentini
Parallel session C (Oteiza Gallery)	
11:50-12:10	An Innovative Method for the Non-invasive Proteomic Analysis of Cultural Heritage Objects. M. Manfredi, E. Barberis, E. Conte, F. Gosetti, S. Baiocco, P.G. Righetti, E. Marengo
12:10-12:30	A non-invasive methodology for stratigraphy investigation of historical violins using reflection IR spectroscopy and UV induced fluorescence technique. C. Invernizzi, T. Rovetta, M. Licchelli, M. Malagodi

12:30-12:50	Complementary use of Optical Coherence Tomography (OCT) and Reflection mid-FTIR spectroscopy for in situ monitoring of varnish removal from easel paintings. M. Iwanicka, P. Moretti, S. van Oudheusden, M. Sylwestrzak, L. Cartechini, K. J. van den Berg, P. Targowski, C. Miliani
12:50-13:10	A non-Invasive Study of Surface Coatings of Electric Guitars. A. Michelin, S. Vaiedelich, C. Andraud, A. Tournié, P. Bruguière
13:10-13:30	Fluorination technique to identify the type of resin in aged vanishes and lacquers using infrared spectroscopy S. Zumbühl, A. Hochuli, N. C. Scherrer, B. Soulier
13:30-15:00	Lunch
15:00-15:50	Plenary Lecture 2: Multimodal analytical approach for characterization of decorative revetments in the Alhambra monument by Maria José Ayora.
Parallel session A (Mitxelena Hall)	
15:50-16:10	An integrate use of Raman and Time Resolved Laser Induced Fluorescence spectroscopy to identify ancient and contemporary painted materials. M. Romani, S. Almaviva, F. Colao, R. Fantoni, M. Marinelli, A. Pasqualucci, G. Verona-Rinati
16:10-16:30	Portable Raman Spectroscopy for Cultural Heritage Objects. K. Frano, D. Yang, J. Mass
16:30-16:50	A Technological Investigation of Grounds in Paintings by a Group of Italian 17 th Century Artists with links to Roman and Neapolitan Practice. D. Buti, T. Filtenborg, L. Ludvigsen, A. Vila
16:50-17:10	In-situ and laboratory spectroscopic study of the mural painting of Ribera de Valderejo (Álava, Basque Country). I. Costantini, M. Veneranda, M. Irazola, J. Aramendia, K. Castro, J. M. Madariaga
17:10-17:30	Identification of organic dyes and pigments in ukiyo-e Japanese woodblock prints by non-invasive and mobile techniques. C. Biron, G. Le Bourdon, A. Mounier, J. Pérez-Arantegui, L. Servant, R. Chapoulie, F. Daniel
Parallel session B (Baroja Hall)	
15:50-16:10	Design of Experiments – Investigating the effect of paint formulation on degradation rates of TiO ₂ -based oil paints. B.A. van Driel, K.J. van den Berg, M. Smout, N. Dekker, J. Dik
16:10-16:30	Portable non-destructive handheld Mid-infrared FT-IR analysis of three diverse antiquities for spectral analysis combined with multivariate chemometric analysis and assessment of potential benefits in art cultural heritage studies. P. Leung Tang
16:30-16:50	

16:50-17:10	Characterization and provenance study of Pompeian red and yellow ochre pigments. I. Marcaida, M. Maguregui, S. Fdez-Ortiz de Vallejuelo, H. Morillas, K. Castro, N. Prieto-Taboada, M. Veneranda, J. M. Madariaga
17:10-17:30	Real-time diagnosis of collagen-based artworks by thermal shrinkage imaging. E. Badea, C. Carşote, O. A. Miu, I. Bornoïu, D. Ichim
Parallel session C (Oteiza Gallery)	
15:50-16:10	Readability recovery in damaged ancient parchment artefacts: a comparative study among multispectral imaging techniques. A. Pasqualucci, C. Cicero, M. Marinelli, F. Mercuri, N. Orazi, S. Paoloni, M. Romani, A. Terrei, G. Verona-Rinati, U. Zammit
16:10-16:30	Usability of spectroscopic, diffraction and microscopic analytical tools to recognize old Moroccan Jewish parchments L. Hajji, J. Assouik, A. Lhassani, A. Ainane, M. El Kouali, Y. Samia, M. Talbi, M. Manso, M. L. Carvalho
16:30-16:50	Mappa Mundi of Albi – Scientific study of the oldest map. L. Robinet, J. Deschaux, A. Tournié, S. Vaiedelich, G. Latour, A. Michelin, S. Thao, C. Andraud, M.-C. Schanne-Klein, B. Lavédrine
16:50-17:10	A multi-analytical study of the 'Hay Cookbook' Coptic magical manuscripts on leather reveal their mysteries. L.-A. Skinner, R. Stacey, B. Wills, L. Spindler, E. O'Connell
17:10-17:30	Non-invasive in-situ and SR-based imaging techniques for recovering the text from a recycled parchment. E. Pouyet, L. Smieska, A. Woll, A. Katsaggelos, O. Cossairt, J. Salvant, M. Walton
17:30-19:00	Coffee Break, Poster session 1

2. Wednesday, May 3

8:30-10:30	Round Table E-RIHS
Parallel session A (Mitxelena Hall)	
10:30-10:50	Identification of inorganic mordants from liquid extracts of madder lakes by laser induced breakdown spectroscopy. B. Campanella, I. Degano, E. Grifoni, S. Legnaioli, G. Lorenzetti, S. Pagnotta, F. Poggialini, V. Palleschi
10:50-11:10	Differentiating natural and amorphous arsenic sulfide in painted artifacts by means of Raman spectroscopy. M. Vermeulen, J. Sanyova, K. Janssens
Parallel session B (Baroja Hall)	
10:30-10:50	Micro-spectroscopy of rock art paintings from the Cueva Mayor of the Atapuerca site (Burgos, Spain). A. Hernanz, D. Paredes-Roibás, J.M. Gavira-Vallejo, J.J. Fernández, B. García, M. Iriarte
10:50-11:10	Non-destructive analysis of Still Bay (>70 ka) pointed artefacts from Sibudu Cave, South Africa. M. Wojcieszak, L. Wadley
Parallel session C (Oteiza Gallery)	
10:30-10:50	3D Imaging of artefacts by EDXRF- SCANNING. R. Cesareo, S. Ridolfi, A. Brunetti, G. E. Gigante
10:50-11:10	The processional cross of Santa Maria Maggiore at Guardiagrele: materials and techniques of Nicola da Guardiagrele investigated by X-ray fluorescence. A. Esposito, M. Ferretti, A. Gorghinian
11:10-11:50	Coffee Break
Parallel session A (Mitxelena Hall)	
11:50-12:10	Colours and pigments in late ukiyo-e paintings: a non-invasive study of a series of woodblock prints by Shuntei. J. Pérez-Arantegui, D. Rupérez, D. Almazán, N. Díez de Pinos
12:10-12:30	Non destructive study of the pigments and the watermarks of engravings in North European Chiaroscuro. K. Laclavetine, C. Boust, L. Clivet, A. de La Chapelle, A. S. Le Hô, E. Laval, R. Mathis, M. Menu, E. Pagliano, R. Pillay, X. Salmon, V. Selbach, S. Lepape
12:30-12:50	Characterization and photostability of red synthetic organic pigments in alkyd and acrylic paints. M. Anghelone, D. Jembrih-Simbürger, Z. Siketić, M. Schreiner, I. Bogdanović Radović
12:50-13:10	'Do you see what I see?' A non-invasive multi-analytical study of the limits of detection of smalt in ultramarine mixtures. P. Ricciardi, D. MacLennan, G. Bertolotti, S. Bucklow, N. Turner, J. K. Delaney, K. Dooley, C. Patterson

13:10-13:30	Synchrotron study of micro-structure and luminescence of lead carbonates: revealing the Old Masters pigments qualities. V. Gonzalez, T. Calligaro, D. Comelli, M. Cotte, D. Gourier, A. Nevin, M. Réfrégiers, M. Thoury, G. Wallez, M. Menu
Parallel session B (Baroja Hall)	
11:50-12:10	Advanced characterization of new nanostructured stone treatments for the conservation of European Architectural Heritage. F. Gherardi, T. Poli, M. Roveri, O. Chiantore, L. Toniolo
12:10-12:30	The first use of portable Raman instrumentation for the analysis of Patagonian prehistoric rock art paintings: pigments, accretions and substrata. A. Rousaki, C. Vázquez, V. Aldazábal, C. Bellelli, M. Carballido Calatayud, A. Hajduk, E. Vargas, O. Palacios, A. Culka, J. Jehlička, L. Moens, P. Vandenabeele
12:30-12:50	Investigation on construction materials and their environmental interaction at the Panamanian UNESCO sites. C. Ciantelli, A. Sardella, C. Vaccaro, A. Bonazza
12:50-13:10	New in situ non invasive analytical methodology to determinate the state of preservation of prehistoric rock art sites. J. F. Ruiz, S. Fdez-Ortiz de Vallejuelo, J. Aramendia, M. Maguregui, J. M. Madariaga
13:10-13:30	The investigation of calcium carbonate formation using micro-Raman spectroscopy Radek Ševčík, Petra Mácová, Alberto Viani
Parallel session C (Oteiza Gallery)	
11:50-12:10	Study of applicability of non-invasive analyses methods in archaeology. A. M. Gójska, E. A. Mišta
12:10-12:30	Non-invasive studies on technological provenance of medieval silver jewelry form Baltic Sea region. E. A. Mišta, W. Duczko, R. Czech-Błotńska, A. M. Gójska, A. Turos, P. Ciepielewski
12:30-12:50	Electrochemical discrimination of monetary emissions: characterizing ten-cash Dragon copper coins. A. Doménech-Carbó, M. T. Doménech-Carbó, E. Montagna, Y. Lee
12:50-13:10	A spectroscopic study of metal foils and its layering in Norwegian Medieval objects. A.Vila, E. Platania, D. Buti, N. Streeton
13:10-13:30	Unveiling ancient gold inlay technique of a bronze belt plaque. M.-w. Tang, W.-f. Lai
13:30-15:00	Lunch
15:00-15:50	Plenary Lecture 3: Art and Cultural Heritage natural polymers by bottom up and top down approaches by Caroline Tokarski.

Parallel session A (Mitxelena Hall)	
15:50-16:10	A Multi-Analytical Approach to Identify Historic Carbonaceous Media on 19 th Century French Drawings. N. Daly, M. Sullivan, L. Lee, K. Trentelman
16:10-16:30	Large volume imaging of cultural heritage with optical coherence tomography. T. Callewaert, J. Kalkman, J. Dik
16:30-16:50	Macroscopic X-ray powder diffraction imaging: highly specific pigment mapping using mobile equipment. F. Vanmeert, S. De Meyer, S. Legrand, G. Van der Snickt, K. Janssens, L. Klaasen, N. De Keyser, P. Noble, A. Van Loon, J. Dik
16:50-17:10	FT-IR investigation of painting cross-sections. E. Pięta, J. Olszewska-Świetlik, J. Adamczyk, A. Zając, C. Paluszkiwicz
17:10-17:30	Capabilities of in-situ Spectroscopic Imaging for Visualizing Traces of Antique Polychromy. M. Alfeld, M. Mulliez, J. Devogelaere, P. Martinez, L. de Viguier ⁽¹⁾ , P. Jockey, P. Walter
Parallel session B (Baroja Hall)	
15:50-16:10	X-ray photoelectron spectroscopy of pictorial samples. E. Carrasco, M. Oujja, M. Sanz, J. F. Marco, M. Castillejo
16:10-16:30	From micro to macro: A multiscale Raman mapping approach for the analysis of inks and pigments on paper, panels and walls. S. Mosca, A. Artesani, D. Gulotta, A. Nevin, G. Valentini, D. Comelli
16:30-16:50	A system for scientific microscope color calibration at the Rijksmuseum for the Paint Sample Database. S. Smelt, R. Erdmann
16:50-17:10	The aggregation of lead and calcium carboxylates on experimental models. A combined analytical approach for their sampling, identification and characterization. Elena Aguado-Guardiola, Laura Fuster-López, Oscar Chiantore, Anna Piccirillo, Tommaso Poli, Paola Croveri, Marco Nervo
17:10-17:30	MA-XRF imaging spectroscopy on the Archaic painted panels from Pitsa (6th c. BC, Corinthia, Greece): New evidence on their original polychromy and their iconography. H. Brekoulaki, F.P. Romano, A.G. Karydas, G. Kavvadias
Parallel session C (Oteiza Gallery)	
15:50-16:10	What synchrotron radiation based experiments can tell about Poverty Point Objects (PPOs). J. Hormes, G.-L. Bovenkamp-Langlois, M. W. Schaefer, O. Kiyilkaza, W. Klysubun, D. M. Greenlee
16:10-16:30	Towards non-destructive analysis of archaeological ceramics by micro X-ray fluorescence spectrometry. E. Calparsoro, M. Maguregui, J. G. Iñáñez, J. M. Madariaga

16:30-16:50	Portable XRF setup with monochromatic radiation for the analysis of Cultural Heritage. S. Pessanha, M. Guerra, J. M. Sampaio, M. L. Carvalho, I. Queralt
16:50-17:10	The material characterisation of Industrial and Technical Heritage: The power plant in Levada de Tomar – Portugal. M. Manso, M. L. Carvalho, J. F. Fonseca, I. Queralt, M. Lemos, M. Tissot
17:10-17:30	In situ characterization of the materials and techniques of Roman Egyptian mummy portraits using combined forensic photography and spectroscopy. R. Radpour, Y. Lin, M. Svoboda, G. Chiari, C. Fischer, I. Kakoulli
17:30-19:00	Coffee Break, Poster session 2
21:00	GALA DINNER

3. Thursday, May 4

8:40-9:30	Plenary Lecture 4: Macromolecules in Archaeology by Maria Perla Colombini.
Parallel session A (Mitxelena Hall)	
9:30-9:50	p-XRF analysis of lapis lazuli for provenance studies. A. Lo Giudice, A. Re, D. Angelici, M. Zangirolami, A. Agostino, M. Gulmini, A. Borghi, A. Mazzinghi, C. Ruberto, L. Castelli, A. Impallaria, F. Taccetti, G. Pratesi, M. C. Guidotti
9:50-10:10	Multidisciplinary non-invasive image diagnostics based on mobile techniques of 15th century paintings from Sicily. M. Barucci, C. Caliri, L. Castelli, E. Grifoni, A. Impallaria, S. Legnaioli, A. Orlando, F.C. Petrucci, M. Raffaelli, F.P. Romano, C.H. Santos, F. Taccetti, F. Tisato
10:10-10:30	Non-invasive analysis of mural paintings from a Republican house (1st century B.C.) in Ostia. D. Strivay, E. Herens, T. Morard, C. Defeyt
10:30-10:50	Characterization of Arsenic Sulfide Pigments in Japanese Prints of the late Edo Period. S. Zaleski, M. Leona
10:50-11:10	Time-resolved ATR-FTIR as a tool to monitor chemical reactivity in oil paint model systems. L. Baij, J. Hermans, K. Keune, P. Iedema
Parallel session B (Baroja Hall)	
9:30-9:50	The Glass beads as markers of the trade to Southern Africa from the 8th to the 19th century A.D. Ph. Colomban, F. Koeini, L. C. Prinsloo, W. Biemond, J. C.A. Boeyens, M. M. van der Ryst, I. Pikirayi
9:50-10:10	A novel tool for Cultural Heritage material analysis: Transmission Electron Microscope (TEM) 3D Electron Diffraction Tomography and Orientation/Phase Mapping applied to ancient Roman glass tesserae. N. Zacharias, F. Karavasili, P. Das, A. Galanis, E. Rauch, S. Nicolopoulos, A. Oikonomou, I. Margiolaki
10:10-10:30	Study of a modern Chinese cloisonné vase by means of EDXRF and Raman spectroscopy. I. Queralt, S. Pessanha, M. Manso, M. L. Carvalho
10:30-10:50	Investigation of 18 th -century Chinese double-walled vases in yangcai painted enamel. T.-H. Chen, C.-C. Huang
10:50-11:10	The magic of colour of medieval stained glass windows. Insights into composition of red and violet flashed glasses. M. Walczak, D. Wilk, M. Kamińska, E. Bernady, E. Bulska
Parallel session C (Oteiza Gallery)	
9:30-9:50	Rubrication in historic manuscripts. B. Frühmann, F. Cappa, W. Vetter, M. Schreiner

9:50-10:10	The presence of iron in the inks of the Valencian manuscripts from the 13th to the 17th centuries. G. M. Contreras Zamorano
10:10-10:30	Applicability of micro-reflection-FTIR-mapping for the investigation of medieval manuscripts – a case study. W. Vetter, B. Fruehmann, M. Schreiner
10:30-10:50	A multi-analytical characterization of French paper negatives: how to see through many processes? C. Daher, M.-A. Languille, A. de Mondenard, A. Tournié, S. Aubenas, B. Lavédrine
10:50-11:10	In situ spectrofluorimetric analysis of red & blue colours on 19th century Japanese engravings (Torralba collection, Zaragoza Museum). A. Mounier, G. Le Bourdon, C. Aupeit, S. Lazare, J. Perez-Arantegui, F. Daniel
11:10-11:50	Coffee Break
Parallel session A (Mitxelena Hall)	
11:50-12:10	Iba and Fors mapping applied to the analysis of cultural heritage artefacts: Last improvements on the aglae facility. Q. Lemasson, B. Moignard, C. Pacheco, L. Pichon, T. Calligaro, J. Rumolo, C. Boust, M. Guiavarc'h, G. Querré
12:10-12:30	Advanced techniques of photo-luminescence microscopy for the analysis of precious semiconductor-based painting layers. D. Comelli, A. Artesani, A. Nevin, V. Gonzalez, M. Réfrégiers, M. Thoury
12:30-12:50	The new "CRONO" macro-XRF scanner applied to Cimabue's masterpiece. T. Frizzi, G. Sciutto, N. Aresi, E. Catelli, S. Prati, R. Alberti, R. Mazzeo
12:50-13:10	A multi-analytical approach to the painting technique and the green and blue pigments used in Andean colonial wall paintings E. Tomasini, V. Careaga, C. Rúa Landa, F. Guzmán, G. Siracusano, M. Maier
13:10-13:30	The Giotto's workshop in the XXI century: looking inside the "God the Father with Angels" Cusp. A. Galli, R. Alberti, N. Aresi, L. Bonizzoni, M. Caccia, I. Castiglioni, M. Gargano, M. Interlenghi, N. Ludwig, C. Salvatore, M. Martini
Parallel session B (Baroja Hall)	
11:50-12:10	Mycenaean Glass from the Argolid, Peloponnese, Greece: A Technological and Provenance Study. N. Zacharias, M. Kaparou, A. Oikonomou, Z. Kasztovszky
12:10-12:30	Historic conservation materials on stained glass windows in the Naumburg cathedral E. Kanaki, J. Brandt
12:30-12:50	Characterization of glaze ceramics from the archaeological site of La Alcazaba, Almería (Spain). I. Ortega-Feliu, B. Gómez-Tubío, Y. Cáceres, M. A. Respaldiza

12:50-13:10	Assessing the firing temperature of Uruk pottery in the Middle Euphrates Valley (Syria): bevelled rim bowls. J. Sanjurjo-Sánchez, J. L. Montero Fenollós, V. Barrientos, G. S. Polymeris
13:10-13:30	Use of small angle neutron scattering and X-ray powder diffraction with the Rietveld method in the assessment of firing conditions in historical fired-clay bricks. A. Viani, K. Sotiriadis, R. Ševčík
Parallel session C (Oteiza Gallery)	
11:50-12:10	Printing materials and technologies in the 15 th -17 th century book production: an underestimated research field. F. Albertin, E. Balliana, G. Pizzol, G. Colavizza, E. Zendri, D. Raines
12:10-12:30	The use of polyamidoamines for the deacidification of iron-gall inked papers. C. Isca, L. Bergamonti, C. Graiff, G. Predieri, P. P. Lottici
12:30-12:50	Interdisciplinary approach for cleaning graphic artworks: the case study of Diana Scultori engraving. L. Micheli, C. Mazzuca, M. Missori, L. Teodonio, A. Mosca Conte, O. Pulci, L. Arcadipane, S. Dominijanni, S. Iannuccelli, S. Sotgiu
12:50-13:10	Combined macroscopic XRF and FTIR mapping of a 14 th century illuminated manuscript fragment. S. Legrand, P. Ricciardi, L. Nodari, K. Janssens
13:10-13:30	Highly retentive hydrogels for paper cleaning. C. Mazzuca, L. Micheli, G. Poggi, N. Bonelli, R. Giorgi, P. Baglioni, A. Palleschi
13:30-15:00	Lunch
15:00-15:50	Plenary Lecture 5: Applications of non-linear imaging microscopy techniques for Cultural Heritage studies by George Filippidis.
Parallel session A (Mitxelena Hall)	
15:50-16:10	Pigment identification in historical samples of Matisse Cut-Outs. A. Martins, A. Ondate, A. Cesaratto, K. Buchberg, C. McGlinchey, M. Leona
16:10-16:30	A tale of two pigments: the characterization and synthesis of Indian yellow, and zinc orange from Toulouse-Lautrec's early palette. A. Shugar, R. Ploeger, K. Harada, K. Spendel, S. Goodman
16:30-16:50	Comparative technical analysis of the medieval altarpieces by Hermen Rode in Tallinn and in Lübeck. A. Uueni, S. Vahur, H. Hiiop, H. Pagi, R. Rebane
16:50-17:10	Nicolas Poussin's painting technique in the scope of a mobile laboratory: X-ray fluorescence, X-ray diffraction and reflectance hyperspectral imaging. L. de Viguerie, M. Radepont, H. Glanville, M. Alfeld, S. Pedetti, Ph. Walter
17:10-17:30	New insights into Indian yellow and its use in Rajasthani wall paintings – a multi-analytical study. D. Tamburini, C. Martin de Fonjaudran, G. Verri, G. Accorsi, A. Rava, S. Whittaker, D. Saunders

Parallel session B (Baroja Hall)	
15:50-16:10	XRF analyses of the Serra d'Alto pottery (Matera, Italy). S. Legnaioli, L. Angeli, E. Grifoni, V. Palleschi, C. Fabbri, G. Radi
16:10-16:30	Not too white': an investigation into the influence of the use of calcium carbonate-rich imported marls on 17 - 18 th century Dutch tin-glaze tile production. K. van Lookeren Campagne, S. Pereira, L. Megens, O. Çopuroğlu, E. Goemaere, N. H. Tennent, M. van Bommel
16:30-16:50	Jun Ware – A Technical Study. L. Cooper, K. Eremin, M. Walton, E. Pouyet, A. Shortland, L. Dussubieux
16:50-17:10	LA-ICP-MS multi-element analyses of blue & white tin-glazed earthenware tiles: 2D surface and depth mapping of glazes. N. H. Tennent, J. T. van Elteren, V. S. Šelih
17:10-17:30	Computed radiography, pixe and XRF analysis of pre-colonial pottery from Maranhão, Brazil. R. A. Ikeoka, C. R. Appoloni, M. A. Rizzutto, A. M. Bandeira
Parallel session C (Oteiza Gallery)	
15:50-16:10	Direct fluorimetric characterization of dyes in ancient purple codices. A. Idone, I. Miletto, P. Davit, M. Aceto, M. Gulmini
16:10-16:30	Shades of blue: non-invasive spectroscopic investigations of blue paints on Mesoamerican Pre-Hispanic codices. C. Grazia, D. Buti, A. Romani, A. Sgamellotti, C. Miliani
16:30-16:50	Quantitative diagnostics of ancient paper using THz time-domain spectroscopy. M. Missori, R. Fastampa, M. Peccianti, M. S. Maggio, C. Violante, A. Mosca Conte, O. Pulci, J. Lojewska
16:50-17:10	What Vis-NIR reflectance spectroscopy can reveal about 15th century illuminated manuscripts: the Corale 43 by Beato Angelico at the Biblioteca Medicea Laurenziana in Florence (Italy). C. Cucci, S. Innocenti, M. Picollo, I. G. Rao, M. Scudieri
17:10-17:30	Quantitative monitoring of works of art on paper with spectral imaging. R. Padoan, M. E. Klein, R. Erdmann, M. Strlič
17:30-19:00	Coffee Break, Poster session 3

4. Friday, May 5

8:40-9:30	Plenary Lecture 6: Capturing Artists' Intent in the Works of the Impressionists through the Expressionists: Pigment Manufacture and Alteration by Jennifer Mass.
Parallel session A (Mitxelena Hall)	
9:30-9:50	Portable instrumentation for the study of wall paintings: the case of S. Maria ad Undas in Idro (BS-Italy). L. de Ferri, F. Mazzini, D. Manzini, G. Pojana
9:50-10:10	"Precious powder": Designing a methodology for the technical and analytical study of pastel paintings from the Rijksmuseum collection. L. Sauvage, S. Settimi, I. van Leeuwen, J. Schultz, K. Abdulah
10:10-10:30	Paul Gauguin's graphic works: multi-analytical characterization of the artist's techniques and materials. C. Daher, K. Sutherland, H. Stratis, F. Casadio
10:30-10:50	300-400 nm UV fluorescence multispectral imaging for organic pictorial materials identification. Tiziana Cavaleri, Marco Gargano, Marco Pisani, Massimo Zucco, Paola Buscaglia
10:50-11:10	A comparison of non-invasive imaging and portable techniques for the study of Old Master paintings: Rembrandt's The Jewish Bride c. 1665 P. Noble, A. van Loon, K. Janssens, J. Delaney, Y. Abe, I. Nakai, J. Dik
Parallel session B (Baroja Hall)	
9:30-9:50	Self-cleaning coatings by N-doped TiO ₂ on limestones. L. Fornasini, L. Bergamonti, G. Predieri, Y. Paz, D. Bersani, P.P. Lottici, F. Bondioli
9:50-10:10	Limestone chromatic changes: a microbial-mediated inorganic process. L. Dias, T. Rosado, A. Coelho, L. Lopes, J. Mirão, A. T. Caldeira, A. Candeias
10:10-10:30	Novel materials for the restoration of marble and limestone substrates based on oxalate derivatives: an experimental and DFT-theoretical approach. L. Giacometti, M. C. Aragoni, G. Carcangiu, O. Cocco, V. Lippolis, L. Maiore, P. Meloni, A. Murru, M. Arca
10:30-10:50	Analysis of typomorphic minerals applied in the investigation of origin of archeological objects and painting materials. B. Łydźba-Kopczyńska, B. Kosmowska-Ceranowicz, M. Sachanbinski
10:50-11:10	
Parallel session C (Oteiza Gallery)	
9:30-9:50	Spectroscopic methods for mapping and dating restoration phases on two Egyptian sarcophagi (XXI dynasty). L. Bonizzoni, S. Bruni, M. Gargano, V. Guglielmi, C. Zaffino, A. Pezzotta, N. Ludwig
9:50-10:10	An insight into the complexity of agar gels. M. Bertasa, T. Poli, C. Riedo, V. Di Tullio, D. Capitani, N. Proietti, C. Canevali, A. Sansonetti, D. Scalarone

10:10-10:30	Evaluating the exploitability of several Essential Oils constituents as a new biological treatment against Cultural Heritage biodeterioration. I. Costantini, M. Veneranda, L. Blanco, P. Cinaglia, G. Di Girolami, K. Castro, J.M. Madariaga
10:30-10:50	Testing of new mortars for the conservation of frescoes in the wooden church in Amărăști, Romania. I. Mohanu, D. Mohanu, I. Gomoiu, O.-H. Barbu, I. Petre, N. Vlad, G. Voicu, R. Trușcă
10:50-11:10	A multidisciplinary investigation on a pair of leonardesque canal gates. M. Gargano, A. Galli, C. Giorgione, N. Ludwig, F. Maspero, M. Orlandi, L. Zoia, M. Martini
11:10-11:50	Coffee Break
Parallel session A (Mitxelena Hall)	
11:50-12:10	Two in one: Unraveling a hidden Jan Steen painting. W.-Y.Lee, R. Tagle
12:10-12:30	Micro and Macro Scale Chemical Imaging on Van Eyck's Ghent Altarpiece (1432). G. Van der Snickt, H. Dubois, J. Sanyova, S. Legrand, K. Janssens
12:30-12:50	Concealed features in Botticelli's fresco unveiled by multispectral visible-near infrared and X-ray Fluorescence imaging. J. Striova, A. Mazzinghi, C. Ruberto, M. Barucci, C. Czelusniak, L. Giuntini, P. A. Mandò, L. Palla, E. Pampaloni, F. Taccetti, R. Fontana
12:50-13:10	Analytical and Technological Investigation of the Paintings and other Decorative Elements of the Holy Aedicule of the Holy Selpuchre in Jerusalem. A. Moropoulou, E. T. Delegou, I. Ntoutsis, M. Apostolopoulou
13:10-13:30	On-site analysis of paintings by means of portable XRD. I. Nakai, A. Hirayama, S. Akagi, Y. Abe, K. Tantrakarn, K. Taniguchi, A. van Loon, P. Noble, G.D. Vivo, K. Janssens
Parallel session B (Baroja Hall)	
11:50-12:10	New insights into the characterization of lipids in pre-Hispanic ceramics by mass spectrometry techniques. I. J. Lantos, V. P. Careaga, E. L. Bonifazi, D. M. Castellanos Rodríguez, M. S. Maier
12:10-12:30	Nuclear Magnetic Resonance Analysis for Treatment Decisions: The case of a White Sculptural Environment by Louise Nevelson. C. Kehlet, S. Nunberg, C. Tomkiewicz, S. Alcala, J. Dittmer
12:30-12:50	Discrimination of Acacia gums by MALDI-MS: developments and applications to samples from Ancient Egypt. C. Granzotto, J. Arslanoglu, K. Sutherland
12:50-13:10	Development of a new methodology for the analysis of sterols and bile acids in archaeological soils for the characterization of species. J. Gea, M. C. Sampedro, A. Vallejo, A. Polo, J. Fernández-Eraso, R. J. Barrio
13:10-13:30	

Parallel session C (Oteiza Gallery)	
11:50-12:10	In-situ micro XRF investigation of four Mycenaean gold signet rings from the grave of the Griffin Warrior at the Palace of Nestor in Pylos V. Kantarelou, A. G. Karydas, J. L. Davis, S. R. Stocker
12:10-12:30	Combined μ -XRF and μ -PIXE/ μ -EBS analysis of ancient copper coins. J. Cruz, V. Corregidor, M. Manso, L.C. Alves, L. Carvalho
12:30-12:50	Chemical analysis of the Pharaonic Period bronze mirrors stored in the Museo Egizio and study of the degradation phenomena. A completely non-invasive approach. S. Robotti, P. Rizzi, C. Soffritti, G. L. Garagnani, C. Greco, M. Borla, L. Operti, A. Agostino
12:50-13:10	Metallurgy of the earliest lost-wax cast. M. Thoury, B. Mille, T. Séverin-Fabiani, L. Robbiola, M. Réfrégiers, A. Didier, L. Bertrand
13:10-13:30	
13:30-15:00	Lunch
15:00-15:50	Plenary Lecture 7: Structure, Coordination Environment and Dynamics of Lead Carboxylates implicated in Soap Deterioration in Oil Paintings by Silvia Centeno.
Parallel session A (Mitxelena Hall)	
15:50-16:10	The use of smalt in Rembrandt's Homer – new research combining MA-XRF, quantitative microanalysis, paint reconstructions and OCT. A. van Loon, P. Noble, D. de Man, G. Van der Snickt, K. Janssens, M. Alfeld, T. Callewaert, J. Dik
16:10-16:30	Jan Davidsz. de Heem: a technical examination of fruit and flower still lifes combining MA-XRF scanning, cross-section analysis and technical historical sources. N. De Keyser, G. Van der Snickt, A. Van Loon, S. Legrand, A. Wallert, K. Janssens
16:30-16:50	A New Innovative Sampling Technique for Analysis of Microorganisms on Angkor Temples in Cambodia. J.-D. Gu, Y. Katayama
16:50-17:10	A comprehensive study of the effects induced by brown rot fungi on archaeological waterlogged wood. J. J. Lucejko, M. Mattonai, M. Zborowska, C. Cartwright, D. Tamburini, G. Cofta, F. Modugno, M. P. Colombini, E. Ribechini
Parallel session B (Baroja Hall)	
15:50-16:10	GC-MS and HPLC-APCI-MS for the research, valorization and dissemination of the Iberian Culture. D. J. Parras, A. Sánchez, J. A. Tuñón, C. Rueda, J. F. García-Reyes
16:10-16:30	Identification of organic residues in archaeological ceramic vessels used by Basque whalers from 16 th to 17 th century. L. Blanco-Zubiaguirre, E. Ribechini, I. Degano, J. La Nasa, J. García-Iñáñez, M. Olivares, K. Castro
16:30-16:50	DMFDMA: a new/old GC-MS derivatization agent for the analysis of binders in cultural heritage objects. F. Caruso, B. Ebert, E. Platania, C. C. Steindal, N. L.W. Streeton

16:50-17:10	Development of a qualitative and quantitative analytical method for the characterisation of mixtures of free fatty acids and metal soaps in paint samples. J. La Nasa, A. Lluveras Tenorio, F. Modugno, I. Bonaduce
Parallel session C (Oteiza Gallery)	
15:50-16:10	Effectiveness of optical micro-profilometry for monitoring the surface morphology in metals and pictorial layers under aging process. C. Daffara, N. Gaburro, G. Marchioro, I. Ciortan, A. Giachetti, G. Karagiannis and M. Galeotti
16:10-16:30	None invasive Synchrotron based X-ray Diffraction investigations of Archaeological Bronze and Gold. M. Freudenberg, A. Rothkirch, L. Glaser
16:30-16:50	Armourers' marks and their detection A. Williams, N. Kardjilov, F. Grazzi, D. Edge
16:50-17:10	
17:10-17:30	Closing

POSTER SESSION

1. Tuesday, May 2

P01: On the modification of photoluminescence properties of zinc white induced by carboxylate formation.

A. Artesani, F. Gherardi, A. Nevin, G. Valentini, D. Comelli

P02: Profiling of free fatty acids and acylglycerols in oil paint by a novel HPLC-ESI-Q-ToF method.

I. Degano, J. La Nasa, F. Di Gianvincenzo, F. Modugno, I. Bonaduce

P03: Identifying the origin of pink pigmentation on mural paintings in churches from Romania.

I. Gomoiu, D. Mohanu, I. Mohanu, R. R dvan, M. Enache, S. Neagu, I. Maria Cortea, R. Cojoc

P04: Analysis of materials applied in the Banner of Sanlúcar de Barrameda.

A. Kriznar, A. Gómez Morón, C. Ángel Gómez, J.M. Santos Madrid, M.A. Respaldiza

P05: Characterization of the Inkaterra rock shelter paintings exposed to tropical climate (Machupicchu, Perú).

H. Morillas, M. Maguregui, J. Bastante, G. Huallparimachi, F. Astete, J.M. Madariaga.

P06: Data integration schemes from UV imaging analysis for mapping and dating restorations on two Egyptian sarcophagi.

N. Ludwig, J. Orsilli, L. Bonizzoni, M. Gargano

P07: Development of a simple method for the identification of proteinaceous binders in easel paintings.

O. Su Yin, C. Salvador, A. Candeias, A. Pereira, J.P. Prates Ramalho, A. Teresa Caldeira

P08: Scientific study for the evaluation of intervention methodologies in polychrome stone treatments.

L. Ferrazza, M.A. García, P.P. Pérez

P09: The effect of different silver nanoparticle substrates on SERS spectra of selected synthetic organic pigments.

C. Sessa, R. Weiß, N.P. Ivleva, H. Stege

P10: Investigation of Color Layers of Bohemian Panel Paintings by Confocal Micro-XRF.

R. Proke, R. efc, S. Chlumská, V. Antuková, T. Trojek, T. echák

P11: Automated integration of 3D Multispectral data from works of art using Image Based Modeling technique.

B. Campanella, E. Grifoni, S. Legnaioli, G. Lorenzetti, S. Pagnotta, V. Palleschi

P12: A preliminary XRF study of Bernardino Luini's use of smalt in the Storie della Passione di Cristo in Santa Maria degli Angeli church in Lugano.

E. Manship, G. Cavallo, J. Gilardi

P13: Preparation of SERS substrates by gel encapsulation of Ag nanoparticles prepared by laser ablation.

M.V Cañamares, M. Oujja, M. Sanz, M. Castillejo, S. Sanchez-Cortes

P14: Multi-analytical Study of Antimony Based Yellow Pigments on Czech Paintings around 1900.

V. Antuková, M. Kmoníčková, H. Bilavíková, V. Pittthard, R. efc

P15: Raman Spectroscopy for the Assessment of an Artwork's Authenticity.

V. Antuková, R. efc, I. Turková

P16: Nannofossil record in the chalk ground layers of Medieval paintings – a tool for the sediment provenance identification.

L. vábenická, R. efc, S. Chlumská

P17: Investigation of environmental effects on decay of alizarin in egg tempera paints.

K. Retko, L. Legan, M. Kaví, P. Ropret, R. Cerc Koroec, S. Sanchez-Cortes, M.V. Cañamares

P18: Microchemical investigation of nanocrystalline CdS.

S. Pedetti, G. Patriarche, Ph. Walter

P19: Analytical characterization of Jorge Afonso palette and painting techniques, the great master of Lisbon painting workshop.

V. Antunes, A. Candeias, M.L. Carvalho, C. Barrocas Dias, A. Manhita, M.J. Francisco, A. Lauw, M. Manso

P20: Combined use of MA-XRF scanning and XRD for the noninvasive investigation of illuminated manuscripts.

C. Caliri, P. Ricciardi, F.P. Romano

P21: The Paston Treasure: a non-invasive elemental imaging by using a real-time MA-XRF technique.

C. Caliri, F.P. Romano, S. Bucklow, J. David, C. Titmus, F. Vanke

P22: The Sicilian period of Old Masters of painting in 17th century: common patterns and differences investigated by a non-invasive MA-XRF scanning.

F.P. Romano, C. Caliri, A. Orlando, S. Gammìno, L. Pappalardo, F. Rizzo, H. C. Santos

P23: Multi-technique non-invasive investigation of visible and hidden compositions of Titian's studio Ecce Homo.

S. Gasanova, N. Bakirtzis, S. Hermon

P24: Non-invasive multi-technique characterization of polychromed sculptures from Cyprus.

S. Gasanova, S. Pagès-Camagna, S. Hermon

P25: Potential of Micro-SORS for Cultural Heritage.

C. Conti, A. Botteon, C. Colombo, M. Realini, P. Matousek

P26: The role of mineral assemblages in oil paint films: a synergic study of chemical-mineral composition, pH and conductivity.

E. Aguado-Guardiola, L. Fuster-López, O. Chiantore, F. Gambino, A. Borghi, P. Croveri, M. Nervo

P27: Alteration phenomena occurring in modern oil paints: non-invasive and micro-invasive spectroscopic investigations on Cobalt Blue paint films.

L. Nodari, F. C. Izzo, S. Buttignol, P. Tomasin

P28: Conservation of Contemporary Art: materials, technique and alteration phenomena on Alexis Harding artworks.

L. Nodari, V. Causin, M.K. Tufano, P. Tomasin

P29: In situ non-invasive characterization of the Pompeian pigments palette composition.

I. Marcaida, M. Maguregui, S. Fdez-Ortiz de Vallejuelo, H. Morillas, R. Castro, N. Prieto-Taboada, M. Veneranda, J.M. Madariaga

P30: Investigation of markers related to the degradation of binding media in wall paintings.

S. Sotiropoulou, J. Mazurek, M. Schilling, A. Lluveras Tenorio, S. Prati, G. Sciutto, R. Mazzeo, M.P. Colombini

P31: Depth Profiling of Paint Layers with a Conventional Handheld X-ray Fluorescence Analyser.

H. Bártoová, T. Trojek, T. echák

P32: A complete Raman approach for the identification of synthetic colorants in works of art.

A. Cesaratto, F. Pozzi, S.A. Centeno, J.R. Lombardi, M. Leona

P33: Multi-analytical approach to evaluate CaCO₃ crystalline evolution in fresco paintings.

L Pocostales Plaza, A. Pitarch Martí, N. Guasch-Ferré, J.L. Prada Pérez

P34: How well constrained are Pb white provenance studies of paintings?.

P. D'Imporzano, K. Keune, E. Hermens, P. Noble, G.R. Davies

P35: A Unique Colours' Workshop in the Ancient Aegean World: Physicochemical characterisation of the iron-containing pigments found at the site.

A. Kostomitsopoulou-Marketou, K. Kouzeli, Y. Facorellis, J.A. Stratis

P36: Insights on multi-analytical study for documentation and treatment of the oil painted dome of Archangel Gabriel church.

S. Adel, I. El Rifai, G. Mahgoub, I. Osticioli, A. Elnaggar

P37: Experimental study for monitoring the physical changes in oil based wall paintings.

S. Adel, A. Nevin, G. Mahgoub, A. Elnaggar

P38: Pigments characterization for image reconstruction of wall paintings of Am r ti wooden church.

O.H. Barbu, I. Mohanu, L. Florea, D. Mohanu

P39: Study of the organic material in polychromed samples from the Alhambra using GC-MS.

P. Arjonilla, A. Domínguez Vidal, M.J. Ayora, E. Correa Gómez, R. Rubio Domene, M.P. Colombini, A. Lluveras Tenorio

P40: At the archaeological excavation site: Spectroscopic investigation of pigments in Egyptian funerary artifacts.

A. Domínguez-Vidal, M.J. Ayora-Cañada, V. de la Torre, A. Jiménez Serrano

P41: Technology and materials of ancient encaustic media.

R. Stacey, J. Dyer, J. Mazurek, M. Schilling, A. Lluveras Tenorio, M.P. Colombini, S. Sotiropoulou, S. Prati, G. Sciutto, R. Mazzeo, F. Rosi, C. Miliani, L. Cartechini, M. Sablier, M. Küppers.

P42: A multi-analytical approach for the non-invasive and micro-invasive study of inorganic and organic materials and for assessing conservation state of the 16th century Italian wall painting.

V. Di Tullio, N. Proietti, L. Luvidi, D. Rigaglia, V. Romè, D. Capitani

P43: Multispectral Imaging Reveals New Insights on the Tomb of Iti and Neferu.

E. Barberis, M. Manfredi, B. Moiso, C. Greco, E. Marengo

P44: Luminescence of Egyptian Blue particle size - a parameter affecting the life time emission of the pigment?.

R. Linn, A. Nevin, G. Valentini, D. Comelli

P45: In-situ characterization of the paintings found in the Galleries of Punta Begoña (Getxo) by Raman Spectroscopy and X-Ray Fluorescence.

E. Lama, I. Madariaga, N. Prieto-Taboada, G. Arana, M.D. Rodríguez Laso, J.M. Madariaga

P46: Advantages and limitations of X-ray techniques in attribution investigations.

B. Jędraba-Kopczyńska, J. Czop Piotr Frączek, A. Klisińska-Kopacz, M. Obarzanowski

P47: A multi-analytical approach for non-destructive in-situ characterization of early 20th century Portuguese Paintings.

R. Bordalo, C. Bottaini, A. Candeias

P48: Multi-analytical characterization of 18th-20th centuries votive paintings in southern Portugal.

R. Bordalo, C. Bottaini, A. Candeias

P49: Magritte on practice: multi analytical study of sixty-three paintings from 1921 to 1963.

C. Defeyt, E. Herens, F. Leen, F. Vandepitte, D. Strivay

P50: Study of organic materials in wall paintings by ¹H HR-MAS NMR spectroscopy.

N. Proietti, V. Di Tullio, D. Capitani

P51: Building a fingerprint with multispectral analysis for modern Brazilian artist: Tarsila do Amaral.

M.A. Rizzutto, J.F. Curado, N.F. Agüero, W.G.P. Engel, P.R. Costa, N. Added, W.S. Silva, M. Barbosa, A.G. Magalhães

P52: An hyperspectral database for modern and contemporary pigments and its application to La bête by Karel Appel.

E. Herens, C. Defeyt, P. Walter, M. Alfeld, D. Strivay

P53: Novel double pulse LIPS for metal characterization using passively Q-Switched laser source and CCD detector.

J. Agresti, A. Azelio Mencaglia, S. Siano

P54: Local structure of Sb through Synchrotron Radiation X-Ray Absorption Spectroscopy in 19th century glazed tiles from the Pena National Palace, Sintra, Portugal.

J.P. Veiga, M. Cotte, M. Larsson Coutinho, T. Pereira da Silva

P55: Physical and Chemical Properties of Water-mixable Oil Paints Assessed Using Gas Chromatography and Single-Sided NMR.

N. A. Udell, R. E. Hodgkins, B.H. Berrie, T. Meldrum

P56: Preliminary scientific investigations on constitutive materials from Pagoda n.1205 Bagan valley (Myanmar).

M.L. Amadori, F.M. Mini, P. Fermo, V. Raspugli, D. Angellotto, A. Tinti, Y. Maekawa

P57: (Un)stability of azurite and malachite in fresco mural paintings: the role play by high humidity environment.

M.Gil, S. George, A. Candeias, José Mirão

P58: Infrared spectroscopic study of the formation of fossil resin analogs with temperature using trans-communic acid as precursor.

O. R. Montoro, A. Lobato, V.G. Baonza, M. Taravillo

P59: Identification of plastic bookbinding materials using system SurveNIR.

P. Vávrová, J. Neoralová, L. Palánková, M. Souková, D. Hebecká, K. Boumová

2. Wednesday, May 3

P01: Roman glass tesserae: a combined Raman and XRF spectroscopic investigation.

J. Van Pevenage, M.K. Donais, D.B. George, L. Moens, L. Vincze, P. Vandenabeele

P02: A study of building stones from structures dating back to the period of Ivan IV the Terrible in Kazan Kremlin and the Island town of Sviyazhsk.

R.Kh. Khramchenkova, A.N. Kolchugin, P. Yu. Kaplan, A.G. Sitdikov

P03: Micro X-ray fluorescence and micro computed tomography applied to characterize the limestone of a quoin of Castello Svevo, Bari, Italy.

G.S. Senesi, I. Allegretta, C. Porfido, R. Terzano, O. De Pascale

P04: Identification of elemental markers in historical musical instruments through XRF spectroscopy combined with Principal Component Analysis.

G.V. Fichera, T. Rovetta, G. Fiocco, M. Licchelli, M. Malagodi

P05: μ -Raman spectroscopy of rock paintings from the Galb Budarga and Tuama Budarga rock shelters, Western Sahara.

M. Iriarte, A. Hernanz, J.M. Gavira-Vallejo, A. Sáenz de Buruaga.

P06: The possible use of Mesopotamian bevelled rim bowls: results from organic content analyses.

J. Sanjurjo-Sánchez, J. Kaal, J.L. Montero Fenollós

P07: Calcium alkoxides for stone consolidation: investigating the carbonation process.

G. Mondin, L. Maria Moretto, M. Zuena, N. El Habra, L. Nodari, P. Tomasin

P08: Are the biocolonizations dangerous for the conservation state of Machupicchu? A multi-spectroscopic study of the Sacred Rock monolith.

H. Morillas, M. Maguregui, G. Huallparimachi, F. Astete, I. Salcedo, J.M. Madariaga

P09: MALDI-FT-ICR-MS for the analysis of resinous materials.

A. Teearu, S. Vahur, I. Leito

P10: Micro-chemical evaluation of ancient potsherd by mean of Micro-Libs-Scanning on thin section negatives.

E. Grifoni, S. Legnaioli, M. Lezzerini, G. Lorenzetti, S. Pagnotta, V. Palleschi, S. Raneri

P11: NIR m-Raman spectroscopy investigation on Early Bronze IV potteries from Khirbat Iskandar.

D. Chiriu, P. Carlo Ricci, M. Scattini, A. Polcaro, M. D'Andrea, S. Richard

P12: In situ analyses of Himalayan paintings to strengthen Ladakhi cultural identity

L. de Viguerie, E. Brunet, N. Martin, N. Rieuf

P13: Wine organic biomarkers in archaeological potteries: detection by GC-MS at ultratrace levels.

L. Blanco-Zubiaguirre, M. Olivares, R. Castro, J.A. Carrero, J.G. Iñáñez, J.M. Madariaga

P14: Unraveling the composition of coloured glass by the comparison of complementary spectroscopic methodologies: the case of beads from the Kongo Kingdom.

B. Laforce, A. Rousaki, A. Coccato, M. Costa, B. Clist, K. Karklins, K. Bostoen, B. Vekemans, L. Moens, J. Mirão, L. Vincze, P. Vandenabeele

P15: A fixative fixation: Historical and analytical study of fixatives for pastel paintings.

S. Settini, L. Sauvage, I. van Leeuwen

P16: Non destructive chemical analyses of the "Red Marble" from Santa Maria del Fiore Cathedral (Florence, Italy).

E. Pecchioni, F. Fratini, D. Magrini, C. Nosengo, A.P. Santo, E. Cantisani, C.A. Garzonio

P17: Preliminary considerations on the technology of manufacture of glass mosaics tesserae of the Rotunda in Thessaloniki, based on in situ colour and XRF measurements.

S. Sotiropoulou, M. Kyranoudi, K.T. Raptis

P18: On-site analysis of Limoges enamels from the 18th c. Research of technological links with painted enamels from Qing Dynasty.

Ph. Colomban, L. Arberet, A. Forray-Carlier, B. Quette

P19: Why the cement is not proper to consolidate stone monuments? The case of Tello Obelisk, Lima (Peru).

H. Morillas, M. Maguregui, G. Huallparimachi, L. Lumbreras, F. Astete, J.M. Madariaga

P20: Chemical Composition of the Ancient Silk Road glasses determined by Portable XRF.

M. Murakushi, I. Nakai

P21: X-ray computed microtomography of Late Copper Age decorated bowls with cross-shaped foots from central Slovenia and the Trieste Karst (north-eastern Italy): a provenance and production technology study.

E. Leghissa, F. Bernardini, A. Velušček, A. De Min, D. Lenaz, D. Dreossi, C. Tuniz, M. Montagnari Kokelj

P22: SEM and Micro-XRF analysis to investigate stained glass windows.

Manfred Torge, Ines Feldmann, Roald Tagle

P23: Ceramic glazes from Gaudi's Modernism Architecture: Non-destructive study of tiles from Casa Vicens.

I. Queralt, J.L. Prada, N. Guasch, S. Pessanha, M.L. Carvalho

P24: A non-destructive protocol for the evaluation of dual wavelength Nd:YAG laser cleaning of gypsum black crusts on granite.

J.S. Pozo-Antonio, K. Hatzigiannakis, K. Melessanaki, A. Phillipidis, A. Papanikolaou, A. Ramil, A.J. López, T. Rivas, P. Pouli

P25: On-line photoacoustic monitoring of laser cleaning on stone: Effectiveness evaluation and induced microdamage detection.

G.J. Tserevelakis, J.S. Pozo-Antonio, P. Siozos, K. Melessanaki, T. Rivas, A. Ramil, P. Pouli, G. Zacharakis

- P26:** ToF-SIMS study of pentacyclic triterpenic acids and birch bark pitch.
L. Tortora, P. Biocca, G. Sotgiu, G. Sidoti, B. Holbom
- P27:** Metal Nanoinks as Chemically Stable Surface Enhanced Scattering (SERS) Probes for Analysis of Blue BIC Ballpoint Pens.
A. Alyami, D. Saviello, M.A.P. McAuliffe, A. Mirabile, L. Lewis, D. Iacopino
- P28:** Byzantine glass bracelets from the Lower Danube.
R. Bugoi, I. Poll, C. Pacheco, P. Lehuédé
- P29:** Multidisciplinary approach on prehistoric pottery from South East Romania.
R. Bugoi, T. Ignat, M. Şeclăman, A. Luca, D. Dimofte, C. Lazăr, F. Constantin
- P30:** Green Thessalian Stone: The Roman and Byzantine ornamental material characterization.
E. Lykartsis, V. Melfos, T. Zorba, K.M. Paraskevopoulos
- P31:** Single-point and imaging procedures to analyze non-destructively the decorative glazes on ceramics from Punta Begoña Galleries.
E. Calparsoro, M. Maguregui, J.G. Iñáñez, A. Azkarate Garai-Olaun, J.M. Madariaga
- P32:** Colorimetric analysis of Balearic medieval stone polychromy through Digital Image Analysis.
L. Bosch Rubio, M.A. Gómez Morón, M. Jardón Cabezas, P. Ortiz, T. Sabater
- P33:** Transparency of blue paint layers probed by OCT.
J. Striova, V. Fontani, A. Dal Fovo, M. Barucci, E. Pampaloni, R. Fontana
- P34:** Islamic polychromatic glazed pottery technology in South Western Iberia: the case of the town port of Mértola (Portugal).
M. Beltrame, L. Dias, S. Gómez Martínez, P. Barrulas, A. Candeias, J. Mirão
- P35:** Method development for the detection of indoor sources of styrene in museums.
S. Vasilca, M. Vîrgolici, M. Cutrubinis, V. Moise, I. Stănculescu, *Q. Khôi Tran, A. Medvedovici*
- P36:** Spectroscopic analysis of white pigments and substrata of prehistoric paintings of Prado del Navazo rock-shelter (Albarracín, Spain).
S. Fdez-Ortiz de Vallejuelo, J.F. Ruiz, M. Maguregui, I. Martinez-Arkarazo, A. Giakoumaki, R. Alloza, J.M. Madariaga
- P37:** Evaluation of the usefulness of Kudzu starch as adhesive: ageing test and spectroscopic analysis.
E. Lama, N. Prieto-Taboada, M.D. Rodríguez Laso, J.M. Madariaga
- P38:** Raman Spectroscopy and X-Ray Fluorescence as a restoration tool in the removal of whitish crusts in ceramics of the 20th century (Punta Begoña, Getxo).
I. Madariaga, E. Lama, N. Prieto-Taboada, G. Arana, M.D. Rodríguez Laso, J.M. Madariaga
- P39:** Pigments and colouration in the 18th century Chinese court paintings of Giuseppe Castiglione (1688-1766).
Tung-Ho Chen, Yun-Chie Chen, Chien-Chi Huang, Chien-Lin Tseng

P40: Mastic incrustations: a study of the medieval sculptures of the San Nicola Church in Bari (Italy).

I. Doroth  van der Werf, G. Germinario, A. Martinelli, P. Acquafredda, L. Sabbatini

P41: Trace element and isotopic analysis for the study of marble provenance.
M. Fonseca, H. Luis, L.C. Alves, J. Cruz, H. Silva, A.P. Jesus

P42: Multi-analytical characterization of glasses from South Spain
M.A. G mez-Mor n, R. Ortiz, J.M. Martin, P. Ortiz

P43: Ancient beads from the Late Minoan cemetery of Armenoi in Crete (Greece): non-destructive examination using Raman Spectroscopy.
K. Kouzeli

P44: Integrated study of a Late Bronze Age axe mold by optical imaging, pXRF, SEM-EDS, XRD, μ FTIR and μ Raman.

E. Figueiredo, C. Bottaini, C. Miguel, A. Lackinger, S. Costa, J. Mir o, B. Comendador Rey

P45: Mortars and binders: from Roman times to 20th century reconstruction periods in built heritage. The case studies of the aqueduct of Carthage, the fortress of Safim and the Knossos palace.

J.P. Veiga, L. Gil, T. Pereira da Silva, A. Lopes, M. Margarida Lima, A. Teixeira, R. Monteiro

P46: Photoacoustic approach to the assessment of stone consolidation.
D. Ciofini, A. A. Mencaglia, S. Siano

P47: The multi-disciplinary approach to determine and monitor the state of conservation of the wall painting of Our Lady of Mellieha (Malta) before, during and after the restoration works.

C. Riminesi, D. Magrini, V. Lupo, S. Penoni, M.G. Zenzani

P48: Portable FTIR spectroscopy to monitor conservation treatments applied on archeological surfaces in Pompeii.

B. Salvadori, C. Riminesi, O.A. Cuzman, F. Fratini, R. Manganelli Del F , B. De Nigris

P49: TiO₂ nanostructured silica-hepoxo resins as photo-bioactive and protective consolidants.

P. Cardiano, P. Lanzafame, O. Gomez-Laserna, M^a Angeles Olazabal, S. Lo Schiavo

P50: Comparison of two direct mass spectrometric methods for the analysis of paint samples.

W. Genuit, E. van Kuijk, K.J.van den Berg

P51: A XANES study of archaeological glass beads

A. Migliori, J. Osan, M. Czyzycki, I. Darby, E. Palamara, V. Kantarelou, N. Zacharias, A.G. Karydas

P52: Analytical pyrolysis of proteins in samples from artistic and archaeological objects.

S. Orsini, A. Lluveras, M.P. Colombini, I. Bonaduce

3. Thursday, May 4

P01: Microbiological extraction of sulfur compounds from simulated waterlogged wood.

M. Albelda Berenguer, M. Monachon, C. Jacquet, P. Junier, C. Rémazeilles, E.J. Schofield, E. Joseph

P02: A comparative analysis of the gesso ground of frescoes in the Cathedral of the Protection of Most Holy Theotokos (Moscow) and the Cathedral of the Assumption of Most Holy Theotokos on the Island of Sviyazhsk (Russia).

R.Kh. Khrumchenkova, T.G. Saracheva, I.A. Chugreeva, A.G. Sitdikov, P. Yu. Kaplan

P03: The ceramic bodies of Hispano-Moresque tiles: chemical and mineralogical characterization.

S. Coentro, L.C. Alves, C. Relvas, M. Nunes, T. Ferreira, J. Mirão, J. Coll Conesa, A. Pleguezuelo, R. Trindade, R.C. da Silva, V.S.F. Muralha

P04: Chemometric studies of analytical data obtained from water sensitive Winsor & Newton Artists' Oil Paint Swatches and twentieth century oil paintings.

J. Lee, I. Bonaduce, F. Modugno, B. Ormsby, R.J. van den Berg

P05: Analysis of Roman Imperial coins by combined PIXE, m-XRF and LIBS techniques.

M. Vadrucchi, M. Chiari, R. Fantoni, A. Gorghinian, V. Lazic, A. Mazzinghi, L. Picardi, C. Ronsivalle, C. Ruberto

P06: Non-destructive investigations of set of French golden coins.

E. Nistratova, I. Cheypesh D. Galkin M. Goldshtrah

P07: Technical characterization of the necklace of El Carambolo treasure.

S. Scrivano, I. Ortega-Feliu, B. Gómez Tubío, F.J. Ager, M.L. de la Bandera, M.A. Respaldiza

P08: Electrochemical screening of Spanish maravedis from different mints.

A. Doménech-Carbó, M.T. Doménech-Carbó, C. Álvarez-Romero, T. Pasíes-Oviedo, M. Buendía-Ortuño, L. Osete-Cortina

P09: Study of submarine lead objects using solid-state electrochemistry techniques.

A. Doménech-Carbó, M.T. Doménech-Carbó, T. Pasíes-Oviedo, M. Buendía-Ortuño, B. Martínez

P10: Biogenic characterization of archaeological organic residual soils using n-alkanes ratios from a stable rock-shelter, Los Husos II, (Upper Ebro Basin, Spain).

J. Gea, M.C. Sampedro, A. Vallejo, A. Polo, J. Fernández-Eraso, R.J. Barrio

P11: Investigation of proteins in samples of a mid-18th century colonial mural painting by MALDI-TOF and nano-LC-ESI-hybrid-Q-orbitrap mass spectrometry.

I.K. Levy, R. Neme Tauil, S. Moreno, G. Siracusano, M.S. Maier

P12: EDXRF analysis of Iberian votive figurines from the southern Spain (4th-3rd centuries BC).

C. Roldán García, J. Vives-Ferrándiz Sánchez

P13: Photography unveiled: a multi-analytical approach for the study of 19th century ambrotypes.

M. Nunes, L.S. Costa, S. Costa, C. Miguel, A. Teresa Caldeira, T. Ferreira

P14: Ancient and Modern Paper: study on degradation process by means of NIR Raman Spectroscopy.

D. Chiriu, P. Carlo Ricci, G. Cappellini, R. Cardia, C. Maria Carbonaro

P15: Investigation on metal adornments from ancient Eastern Europe.

L. Ghervase, R. Radvan, C. Bors, I.M. Cortea

P16: Complementary non-destructive investigations of two Lipovan-style icons.

R. Radvan, I.M. Cortea, L. Ghervase, L. Ratoiu, A. Chelms, L. Angheluta, C. Constantin

P17: Elemental characterization (gold, silver, copper) in Ancient gold jewelry using X-ray fluorescence.

H.S. Gama Filho, R.S. Santos, D.F. Oliveira, C.M. Prado, J.T. Assis, M.L. Carvalho, M.J. Anjos

P18: Goa cathedral former altarpiece: a Portuguese feature? Material and technical assessment to the work of Garcia Fernandes, Portuguese painter from Lisbon workshop.

V. Antunes, A. Candeias, J. Mirão, M.L. Carvalho, V. Serrão, C. Dias, M. Esteves Reis, M. Manso

P19: Trading and stories behind a Bull's eye stamp: unveiling the placement's authenticity of early Brazilian printed stamps through in-situ spectroscopic analysis.

C. Miguel, F. Vasconcelos, A. Candeias

P20: Colours and fibres in ancient Siberian textiles.

D. Tamburini, R. Stacey, C. Cartwright, St John Simpson

P21: Lixiviation pathways of metals in the Corten steel façade of the Euskalduna Palace.

P. Ruíz-Galende, J. Aramendia, L. Gomez-Nubla, K. Castro, I. Martinez-Ararakazo, M. Sagasti, G. Arana, J.M. Madariaga

P22: Neutron and X-ray imaging techniques for the investigation of structures of pearls.

D. Micieli, D. Di Martino, A. Bravin, L. Gori, G. Gorini, A. Kaestner, A. Mittone, M. Musa, R. Navone

P23: Energy-resolved (4D) neutron tomography of natural and cultured pearls at a pulsed spallation source using a microchannel plate camera.

G. Vitucci, D. Di Martino, D. Micieli, T. Minniti, M. Musa, W. Kockelmann, K. Watanabe, A.S. Tremsin, G. Gorini

P24: FTIR and Raman spectroscopy determination of Japanese armour's material composition.

L. Legan, K. Retko, C. Tavzes, P. Ropret

P25: Recent advances in XRF spectrometric analysis combined with Monte Carlo simulation for the non-destructive chemical characterization of museum metal collections.

C. Bottaini, A. Brunetti, R. Silva, J. Mirão, A. Candeias

P26: XRD, SEM/EDX and micro-Raman spectroscopy for mineralogical and chemical characterization of iron slags from the roman archaeological site of Forua (Biscay).

H. Portillo, M.C. Zuluaga, L.A. Ortega, A. Alonso-Olazabal, X. Murelaga, A. Martinez Salcedo

P27: FTIR microscopy for analysis of treated archaeological wood samples.

C.M.A. McQueen, D. Tamburini, Susan Braovac

P28: Dose-dependent effects of gamma irradiation on vegetable leather physical-chemical properties and structure.

E. Badea, C. Carote, C. Iendrea, M. Ignat, L. Miu, P. Budruga

P29: A non-invasive in situ methodology to characterize the lacquers and metals from the Edo period Japanese armour.

M. Maguregui, H. Morillas, I. Marcaida, C. García-Florentino, I. Ortiz de Errazti, C. Aransay, J.M. Madariaga

P30: Canada's National Historic Sites and their contribution to Material Research and Cultural Heritage studies.

D. Kavousanaki,

P31: Sourcing manganese-rich lumps from Middle and Upper Palaeolithic sites in South West France by external PIXE.

A. Pitarch Martí, F. d'Errico

P32: Potentiality of Raman spectroscopy for pearls characterization and authentication.

G. Barone, L. Bergamonti, D. Bersani, L. Fornasini, U. Longobardo, P. Mazzoleni, S. Raneri, P.P. Lottici

P33: Protective effect of linseed oil varnish on archaeological wood treated with alum.

J.J. Lucejko, J. La Nasa, F. Modugno, S. Braovac, M.P. Colombini

P34: A micro XRF study of the bronze statue of Poseidon of Livadostira at the National Archaeological Museum in Athens.

A. Fragkou, V. Kantarelou, G. Moraitou, A.G. Karydas

P35: 2 step algorithm for the segmentation of varnish layers in OCT images of cultural heritage.

T. Callewaert, J. Dik, J. Kalkman

P36: Research of Photographic Materials.

E. Svobodova, I. Kopecka, T. Cechak

P37: Composition analysis of writing materials in Geniza fragments.

Z. Cohen, J. Schlanger, O. Hahn, I. Rabin

P38: FUTURAHMA: an online non invasive spectroscopic database of modern art materials by Lefranc.

L. Cartechini, C. Miliani, R. Fontana, C. Grazia, O. Vilanova, A. Chieli, L. Monico, B. Doherty, A. Romani, M. Patti, D. Kunzelman, E. Buzzegoli, J. Striova, A. Ficini, G. Andreoletti, C. Mannari, R. Manca, A. Dal Fovo, F. Rosi

P39: Silver coins from the Spain Independence's War minted in Catalonia Region: Legal and counterfeit coinage.

I. Queralt, A. Pitarch, J. Pujol, M. Clua, A. Estrada-Rius

P40: PXRF for the characterization of metals used in the Fountain of the New Waterfall. La Granja de San Ildefonso Royal Palace, Segovia (Spain).

D. Martín Freire-Lista, M. Álvarez de Buergo, R. Fort

P41: Use of Metal Nanoinks for Surface Enhanced Raman Spectroscopy (SERS) Investigation of Dyes in Felt-tip Pens.

D. Saviello, M. Trabace, L. Montalbano, A. Mirabile, D. Iacopino

P42: A micro-invasive study of a 15th century Armenian manuscript from Matenadaran Museum.

Y. Keheyan, M. Aceto, E. Calà, M. Gulmini, A. Idone, A. Salis, G. Eliazian, A. Mkrtchyan

P43: The Francisco Pizarro's Banner of Arms: a multi-analytical approach contributing to Latin America history.

D.A. Badillo Sanchez, C. Barrocas Dias, A. Manhita, N. Schiavon

P44: The "Bacile della Nereide". Non invasive P-XRF and XRD investigate an outstanding paleo-byzantine silver basin.

G. Fenoglio, M. Aceto, F. Crivello, L. Fiore, L. Operti, A. Agostino

P45: Surface silver-enriched layer of ancient silver coins studied by means of micro-PIXE.

A. Re, J. Corsi, D. Angelici, L. La Torre, A. Lo Giudice, F. Picollo, V. Rigato, M. Zangirolami, E.G. Ziraldo

P46: Evaluation of handheld X-ray fluorescence spectroscopy results of Roman copper alloy brooches by using archaeological typology.

V. Van Thienen, S. Lycke, P. Vandenabeele

P47: Advanced Codicological Studies of Codex germanicus 6.

M. Geissbühler, O. Hahn, I. Rabin

P48: Modern inks: investigation of felt-tip pens.

G. Germinario, S. Garrappa, I. Dorothé van der Werf, A. Mirabile, L. Sabbatini

P49: SEM-EDX and optical microscope study of bronzes with high tin content: characterization of 'bell metal'.

R. Silva, E. Figueiredo

P50: The new dynamic positioning system of the LABEC XRF scanner for the diagnostics of non-planar CH samples.

C. Ruberto, C. Czelusniak, A. Mazzinghi, L. Palla, L. Castelli, N. Gelli, L. Giuntini, F. Arneodo, P. Andrea Mandò, F. Taccetti

P51: Villa de Noheda (Cuenca, Spain): a multi-analytical approach for mortar characterization.

C. Galacho, P. Moita, M. Tévar, A. Candeias, J. Mirão

P52: SEM-EDS characterization of hard soldering with copper-tin alloy of Roman handle attachments from Conimbriga (Portugal).

F. Lopes, R.J.C. Silva, M. Fátima Araújo, V.H. Correia

P53: Lead provenance of Late Republican Roman artefacts from an archaeological military camp in Portugal.

S. Sousa Gomes, M. Fátima Araújo, A. Monge Soares, J. Pimenta, H. Mendes

P54: Studying the thermal transformation of lead carbonates involved in Antique Roman eye care medicine.

M. Aibin, M. Labonnelie, Ph. Walter, L. Bellot-Gurlet

P55: Analyses of 6 canvases from Osman Hamdi Bey's Paintings using PCA on FTIR-ATR data.

Cüneyt H. Ünlü and Filiz Kuvvetli

INFORMATION FOR THE GALA DINNER

RESTAURANT: Hotel Ercilla (<http://www.hotelercilla.es>), [Ercilla Kalea, 37-39, 48011 Bilbao \(Coordinates: 43.261316,-2.938699\)](#)

GALA DINNER DATE: Wednesday, May 3

GALA DINNER TIME: 21:00 (we will be grateful if you arrive at 20:45)

PUBLIC TRANSPORT INFORMATION: The closest subway (metro) station is Indautxu, Urquijo exit.

HOW TO ARRIVE WALKING: 13 min walking from the conference building, Bizkaia Aretoa ([see map](#)).



EXCURSION INFORMATION

MEETING POINT: Bizkaia Aretoa, the conference building

MEETING TIME: 8:45

EXCURSION DATE: Saturday, May 6

EXCURSION DURATION: From 9:00 to 18:00

EXCURSION ITINERARY: We will visit some of the most interesting places on the coast such as Gaztelugatxe and Bizkaia Bridge, the historical and famous Village of Gernika and we will visit a wine cellar.



WIFI access

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INFORMATION FOR THE FREE ACCESS TO THE MUSEUMS

During all the conference you can use the TECHNART 2017 conference identification card to have free access to the Fine Arts Museum of Bilbao. Please, when you come into the Fine Arts museum show the TECHNART 2017 conference identification card in the ticket office.

In case of the Archaeological museum, you can find a ticket in your conference bag.

Here you have more details about both museums:

FINE ARTS MUSEUM OF BILBAO

How to arrive: [5 minutes walking](#) from the conference site

Address: [Museo Plaza, 2, 48009 Bilbo, Bizkaia](#)

Schedule: From 10:00 to 20:00. On Wednesday from 10.00 to 15.00 the entrance is free for all visitors, so it is possible to find the museum a little bit crowded of people. Tuesday closed.

<https://www.museobilbao.com/in/>

You can visit the permanent exhibition of the museum and the temporary exhibition "Renoir: Intimacy", the first retrospective exhibition in Spain to be devoted to the French Impressionist painter Pierre-Auguste Renoir.

ARCHAEOLOGICAL MUSEUM OF BILBAO

How to arrive: It is located 2.2 Km far from the conference site, in the old town of the city. You can take the tram in front of the conference building and stop in "ARRIAGA". From this stop you can find the museum at 5 min walking.

Address: [Mallona Galtzada, 2, 48006 Bilbo, Bizkaia](#)

Schedule: From 10:00 to 14:00 and from 16:00 to 19:30

http://www.bizkaia.eus/Home2/temas/DetalleTema.asp?Tem_Codigo=4571&Idioma=CA

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