

## ORAL COMMUNICATIONS PROGRAMME



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Thematic sessions	
A - Analytical methods	K - Varnishes and resins
B - Ceramics	L - Mural paintings
C - Glass and related materials	M - Polymers
D - Sustainable conservation	N - Scientific and technological heritage
E - Archaeological materials and sites	O - Modern materials and contemporary art
F - Leather	P - Metals
G - Easel Paintings	Q - Paints
H - Textiles	R - Stone
I - Graphic documents	S - Wood
J - Pigments and dyes	

Sunday 7th		Building C3 - Hall
14h00	Registration	
17h00	Welcome reception	
18h00		
Monday 8th		Building C3 - Auditorium 3.2.14
08h30	Registration	
09h00	Opening Session	
<b>Session A - Analytical methods   Chaired by Koen Janssens</b>		
09h20	ID	António Candeias <i>Non-invasive and imaging techniques for the study and conservation of cultural heritage - the HERCULES Lab experience</i>
10h00	441	Sebastian Schöder, Katharina Müller, Emilie Bérard, Angélique Rouquié, Laurent Tranchant, Pierre Gueriau, Mathieu Thoury, Serge Cohen and Loïc Bertrand <i>First results from the PUMA synchrotron beamline, dedicated to heritage studies</i>
10h15	1082	Maria Eugenia Villafane, Nathan Daly, Christine Kimbriel, Catherine Higgitt and Pier Luigi Dragotti <i>Registration of multimodal images of artworks: an approach based on mutual information</i>
10h30	891	Giuseppe Capobianco, Lucilla Pronti, Martina Romani, Simone Di Filippo, Giuseppe Bonifazi, Mariangela Castellì Guidi and Silvia Serranti <i>Multi-sensor imaging coupled with chemometric techniques for the characterization of pictorial materials</i>
11h00	Coffee break	
<b>Session A - Analytical methods   Chaired by António Candeias</b>		
11h30	1597	Kalliopi Tsampa, Effrosyni Androulakaki, Panagiotis Assiouras, Pawel Wrobel and Andreas Germanos Karydas <i>Development and characterization of a modular MA-XRF spectrometer for Cultural Heritage applications</i>
11h45	1883	Francesca Assunta Pisu, Stefania Porcu, Pier Carlo Ricci, Carlo Maria Carbonaro, Carla Cannas, Valentina Mameli, Rita Teresa Melis, Stefano Naitza and Daniele Chiriu <i>Innovative method for provenance study: a new algorithm based on observables from high-resolution Raman spectra</i>
12h00	1403	Francesco Paolo Romano, Costanza Miliani, Claudia Caliri, Claudia Giuseppina Fatuzzo, Giulia Maria Privitera, Eva Luna Ravan, Dario Zappalà and Zdenek Preisler <i>A novel MA-XRD/MA-XRF scanner for pigment-specific mapping of paintings</i>
12h15	6005	Candida Moffa, Fernando Jr. Piamonte Magboo, Luigi Palumbo, Anna Candida Felici and Massimo Petrarca <i>Non-invasive identification of coloring materials based on terahertz continuous-waves (THz-CW) spectroscopy</i>
12h30	6281	Claudia Conti, Alessandra Botteon, Alberto Lux, Marco Realini, Pavel Matousek and Pietro Strobbia <i>Evolution of Raman Spectroscopy for Cultural Heritage: advanced prototypes</i>
13h00	Lunch break	
<b>Session A - Analytical methods   Chaired by Francesco Grazi</b>		
14h30		Matthias Alfeld <i>Integrated Multi-modal approaches for Imaging of Cultural Heritage Objects</i>
15h00	6459	Giulia Marcucci, Antonella Scherillo and Daniela Di Martino <i>Advances in neutron resonance absorption imaging for material characterisation</i>
15h15	6566	Eugenia Geddes da Filicaia, David Peggie and Richard Evershed <i>Direct inlet pyrolysis GC-QToF-MS for the study of organic materials in cultural heritage</i>
15h30	7153	Claudia Caliri, Claudia Giuseppina Fatuzzo, Danilo Paolo Pavone, Giulia Maria Privitera, Eva Luna Ravan, Zdenek Preisler, Costanza Miliani and Francesco Paolo Romano <i>A novel mobile MA-XRF scanner based on a hodoscopic multi-detector system for application in the cultural heritage field</i>
15h45	7475	Loïc Bertrand, Sebastian Schoeder, Ineke Joosten, Samuel Webb, Mathieu Thoury, Thomas Calligaro, Étienne Anheim and Aliz Simon <i>Ten years of practical advances towards safer analysis of heritage samples and objects</i>
16h00	7802	Matteo Cataldo, Adrian D. Hillier, Katsu Ishida, Massimiliano Clemenza, Oliviero Cremonesi, Francesco Grazi and Simone Porcinai <i>Using negative muons for the characterization of thin layers in cultural heritage science</i>
16h15	9580	Vasiliki Kantarelou, Timofej Chagovets, Nina Gamaiunova, Maksym Tryus, Filip Grepl, Francesco Schillaci, Daniele Margarone and Lorenzo Giuffrida <i>Optimization of a laser-driven X-ray source for X-ray Fluorescence applications on Cultural Heritage</i>
16h30	Coffee break	
17h00	Poster session 1	
18h30		
Monday 8th		Building C3 - Auditorium 3.2.15
<b>Session B - Ceramics   Chaired by Marcia Rizzutto</b>		
10h00	2340	Weronika Patrycja Polańska, Lavinia de Ferri, Knut Ivar Austvoll and Calin Constantin Steindal <i>A multi-method approach to Bronze Age ceramics from Hunn, Eastern Norway</i>
10h15	4502	Luís Filipe Vieira Ferreira, Isabel Ferreira Machado, Manuel Francisco Costa Pereira and Celso Mangucci <i>Archaeometry of 16th to 18th c. tiles produced in the Lisbon area</i>

10h30	4735	<a href="#">Eduardo Jussiani</a> , Carlos Appoloni, Fabiola Silva, Marcia Rizzutto, Avacir Andrello and Nemitala Added <i>Characterization of ceramic fragments from Kootinemo indigenous territory (oriental Amazon) by X ray computed microtomography and multivariate analysis</i>
10h45	5808	<a href="#">Mario Bandiera</a> , Umberto Veronesi, Marta Manso, Alexandre Pais, Lurdes Esteves, Andreia Ruivo, Marcia Vilarigues and Susana Coentro <i>Unveiling the colours of the 17th-18th century azulejos using a multi-analytical non-invasive approach</i>
11h00		Coffee break
<b>Session B + C - Ceramics + Glass and related materials   Chaired by Francesca Rosi</b>		
11h30	6445	<a href="#">Paolo d'Imporzano</a> , Haske Reiling, Jolanda van Iperen, Isabelle Garachon, Katrien Keune and Gareth Davies <i>Lead Isotope Analysis of Delftware via Portable Laser Ablation</i>
11h45	7645	<a href="#">David Butj</a> , Claudia Caliri, Brenda Doherty, Davide Domenici, Giulia Privitera, Donata Magrini, Costanza Miliani, Loretta Paderni, Aldo Romani, Francesco Paolo Romano, Francesca Sabatini and Francesca Rosi <i>Mesoamerican Mosaics from the collection of Museo delle Civiltà (MUCIV): A Multi-analytical scientific study</i>
12h00	9268	<a href="#">Maria Labate</a> , Maurizio Aceto, Mauro Palumbo, Lorenza Operti and Angelo Agostino <i>Predictions by pXRF raw spectra: classification of medieval enamels by machine learning</i>
12h15	4756	<a href="#">George Karagiannis</a> , Theodoros Karagiannis, Evdoxios Mimis, Thomas Mafredas, Chrysfenia Pardalidou, Mattheos Koutsoumanis and Emmanuel Karagiannis <i>A holistic in-situ non-destructive approach for supporting the conservation on archaeological sites. The case of conservation of mosaics from ancient Plotinopoli, Didymoteicho, Greece.</i>
12h45		Lunch break
<b>Session D + E + F - Sustainable conservation + Archaeological materials + Leather   Chaired by Ilaria Costantini</b>		
15h00	1053	<a href="#">Martina Romani</a> , Simone Lemmers, Lucilla Pronti, Gihan Kamel, Kirsi Lorentz and Mariangela Cestelli Guidi <i>Optimization of the methodology for the FT-IR spectroscopic characterization of archaeological human long bone samples</i>
15h15	1263	<a href="#">Laura Giuliani</a> , Chiara Genova, Valeria Stagno, Alessandro Ciccola, Silvia Capuani and Gabriele Favero <i>HVPD-hydrogel as a smart cleaning solution for removal of corrosion patinas on carbonate stone materials</i>
15h30	2718	<a href="#">Noemi Proietti</a> , Valeria Di Tullio, Cristina Carsote, Ilaria Quaratesi and Elena Badea <i>NMR spectroscopy and micro-analytical techniques for studying the corami (gilt and painted leather) wall coverings from Chigi Palace, Italy</i>
15h45	3545	<a href="#">Federica Nardella</a> , Marco Mattonai, Riccardo Andreozzi and Erika Ribechini <i>Long-lasting flavor compounds of myrtle and helichrysum from ancient Egyptian tombs: a study by multi-shot analytical pyrolysis</i>
16h00	2283	<a href="#">Mingrui Zhang</a> , Zonghui Zhang, Fang Wang, Jie Liu, Yong Lei and Keyong Tang <i>Pyrolysis Kinetics and Product Analysis of Vegetable-tanned Leather by TG and TG-FTIR-MS</i>
16h30		Coffee break
17h00		Poster session 1
18h30		

<b>Monday 8th Building C3 - Auditorium 3.2.16</b>		
<b>Session G - Easel paintings   Chaired by Idoia Etxebarria</b>		
10h00	146	<a href="#">Catherine Defeyt</a> , Kevin Thomas, Dominique Marchal and David Strivay <i>Jean-Auguste-Dominique Ingres' pictorial praxis by a multi-analytical approach</i>
10h15	880	<a href="#">Marcella Ioele</a> , Alessandro Ciccola and Paolo Postorino <i>The Deposition by Raffaello Sanzio, analytical insights on cross sections for the characterization of pictorial palette</i>
10h30	1354	<a href="#">Giulia Sara de Vivo</a> , Francesca Gabrieli and Annelies van Loon <i>New findings on the Rijksmuseum Holy Family attributed to Giovanni Larciani. The role of complementary non-invasive analytical techniques such as MA-XRF and RIS.</i>
10h45	1858	<a href="#">Francesco Caruso</a> , Tine Frøysaker, Silvia Garrappa, Noëlle L.W. Streeton, Jan Dariusz Cutajar, Lena Porsmo Stoveland, Thierry Ford and Maite Maguregui <i>Non-destructive vibrational spectroscopy study of Edvard Munch's monumental Aula Paintings</i>
11h00		Coffee break
<b>Session G - Easel Paintings   Chaired by Ana Luisa Silva</b>		
11h30	2875	Anna Mazzinghi, Chiara Ruberto, <a href="#">Lisa Castelli</a> , Pier Andrea Mandò, Lorenzo Giuntini and Francesco Taccetti <i>The Portrait of Leo X by Raffaello: characterisation of the painting materials and techniques by means of MA-XRF</i>
11h45	2936	<a href="#">Guusje Harteveld</a> , Francesca Gabrieli, Kathrin Pilz, Muriel Geldof, Inez van der Werf, Luc Megens, Maarten van Bommel, Lars Maxfield, Dominique van Berkum, Anna Vilanova and Ana Martins <i>Multi-scale and multi-technical survey of Van Gogh's Small Pear Tree in Blossom to create a digital twin</i>
12h00	3468	<a href="#">Frederik Vanmeert</a> , Elke Oberthaler, Sabine Penot, Katharina Uhler, Annelies van Loon, Anna Krekeler, Ige Verslype, Abbie Vandiver, Carol Pottash, Katrien Keune and Koen Janssens <i>An investigation into the materials of Vermeer's The Art of Painting using MA-XRF and MA-XRPD</i>
12h15	4550	<a href="#">Elvira Scialla</a> , Jessica Brocchieri, Marianna Merolle, Palma Maria Recchia, Roberto Della Rocca, Antonio D'Onofrio and Carlo Sabbarese <i>Study of the 'Adoration of the Magi' by Artemisia Gentileschi with multispectral imaging and XRF analysis</i>
12h30	6842	<a href="#">Raphael Moreau</a> , Svetlana Gasanova, Nikolas Bakirtzis and Sorin Hermon <i>New insights on Titian's Ecce Homo materiality by coupled MA-XRF, RIS and LIS scanning</i>
12h45	7402	<a href="#">Dafne Cimino</a> , Angelo Agostino, Paola Artoni, Claudia Daffara and Monica Molteni <i>Beyond the youth smile: investigating techniques and materials in Caroto's paintings</i>
13h00		Lunch break
<b>Session G - Easel Paintings   Chaired by Sofia Pessanha</b>		
15h00	7633	<a href="#">Steven De Meyer</a> , Victor Gonzalez, Letizia Monico, Iryn Bijker, Sara Carboni Marri, Francesca Gabrieli, Mathieu Houry, Roald Tagle, Michele Girona, Loic Bertrand and Koen Janssens <i>Casting light on Robert Delaunay's palette: a multimodal approach using MA-XRPD/XRF</i>
15h15	7660	<a href="#">Marcia de Almeida Rizzutto</a> , Renata D.F.M. Rocco, Julia Schenatto, Juliana Bittencourt Bovolenta, Wanda Gabriel Pereira Engel, Marcia Sampaio Barbosa and Ana G. Magalhães <i>Massimo Campigli, an Italian painter, studied with non-invasive and portable analytical techniques</i>
15h30	7844	<a href="#">Ana Machado</a> , Sara Valadas, Peter Vandenabeele, António Candeias, Ana Teresa Caldeira, Luis Piorro and Teresa Reis <i>Combining in situ Elemental and Molecular Analysis: the Vice-Roys Portraits in Old Goa, India</i>
15h45	8384	<a href="#">Frédérique Broers</a> , Annelies van Loon, Victor Gonzalez, Francesca Gabrieli, Jorien Duivenvoorden, Jan Garrevoet, Petria Noble, Koen Janssens, Florian Meirer and Katrien Keune <i>Correlative X-ray Fluorescence and Ptychography Tomography at the Nanoscale Elucidate Different Small Mixtures used in The Night Watch</i>
16h00	8765	<a href="#">Kostas Hatzigiannakis</a> , Kristalia Melessanaki, Anna Moutsatsou, Agni Terlixi, Elina Kavalieratou, Kallioi Tsampa, Effrossyni Androulakaki, Panagiotis Assiouras, Demetrios Anglos and Andreas Germanos Karydas <i>Evaluation of the combined application of elemental and imaging spectroscopies for the non-invasive analytical characterization of 19th century paintings</i>
16h15	6635	<a href="#">Francesca Gabrieli</a> , Annelies Van Loon, Anna Krekeler, Ige Verslype and Katrien Keune <i>Johannes Vermeer under different wavelengths</i>
16h30		Coffee break
17h00		Poster session 1
18h30		

Tuesday 9th		Building C3 - Auditorium 3.2.14
<b>Session H - Textiles   Chaired by Paula Nabais</b>		
09h00	ID	Diego Tamburini <i>From Europe to Asia: on the introduction of early synthetic dyes in traditional dyeing practice</i>
09h30	1288	Ludovico Geminiani, Cristina Corti, Moira Luraschi, Sila Motella and Laura Rampazzi <i>Analytical investigation into cellulosic materials from traditional Japanese samurai armours</i>
09h45	1470	Alessia Melelli, Camille Goudenhooff, Loren Morgillo, Sylvie Durand, Johnny Beauprand, Anita Quiles, Timm Weitkamp, Mario Scheel, Frédéric Jamme and Alain Bourmaud <i>Cutting-edge techniques for the investigation of ancient flax textiles</i>
10h00	1682	Constantina Vlachou-Mogire, Moira Bertasa, John R Gilchrist, Jon Danskin and Kathryn Hallett <i>Historic tapestry dye analysis with hyperspectral imaging</i>
10h15	3848	Hortense de La Codre, Rémy Chapouille, Laurent Servant and Aurélie Mounier <i>A comprehensive methodology for the characterisation of 18th-century tapestry dyeing materials: between point analyses and hyperspectral imaging</i>
10h30	5773	Pauline Claisse, Francesca Galluzzi, Floréal Daniel, Rémy Chapouille, Mohamed Dallel and Aurélie Mounier <i>SWIR hyperspectral imaging to unveil the numerous restorations of the Lady and the Unicorn tapestry (15th C, Musée de Cluny)</i>
10h45	9005	Mila Crippa, Paula Nabais, João Carlos Lima and Dominique Cardon <i>New insight into lac dye reds: optimization of portable molecular fluorescence for the characterization of dyed textiles</i>
11h00		Coffee break
<b>Session A - Analytical methods   Chaired by Francesco Paolo Romano</b>		
11h30	3322	Zdenek Preisler, Rosario Andolina, Andrea Busacca, Claudia Caliri, Costanza Miliani and Romano Paolo <i>MA-XRF imaging of paintings: comparative studies by using classical analysis and artificial intelligence</i>
11h45	3373	Lauren Dalecky, Simo Huotari, Jean-Pascal Rueff, Christoph Sahle, Alessandro Mironne, Laure Cazals, Agnès Desolneux, Ilaria Bonaduce, Uwe Bergmann, Aurélie Chevalier and Loïc Bertrand <i>Inelastic X-ray Scattering: A new probe to identify and image artists' materials</i>
12h00	5251	Amelia Suzuki, Cristiano Riminesi and Haida Liang <i>Assessment of synchrotron X-ray alteration on paintings with time and spatially resolved VIS-NIR Hyperspectral imaging</i>
12h15	5756	Emmanuel Grifoni, Emma Vannini, Irene Lunghi, Petra Farioli, Andrea Santacesaria, Marina Ginanni and Raffaella Fontana <i>Multi-sensor points cloud Data Fusion for metrological analysis and monitoring of a Renaissance panel paintings</i>
12h30	4133	Clément de Meccquenem, Myriam Eveno, Katharina Müller, Sebastian Schoeder, Marine Cotte and Ina Reiche <i>Investigation of the influence of lead white on the alteration mechanism of smalt in paintings by SR <math>\mu</math>XRD and <math>\mu</math>XANES</i>
12h45	8874	Tiago Veiga, Paula Nabais, Andreia Ruivo, João Carlos Lima, Vanessa Otero and Mária Vilarigues <i>Improving the identification of red lake pigments on historical hand-painted magic lantern glass slides</i>
13h00		Lunch break
<b>Session A - Analytical methods   Chaired by Matthias Alfeld</b>		
14h30		Francesca Rosi <i>Strengthening the MOLAB platform of E-RHS through advanced hyperspectral chemical imaging at the macro-scale</i>
15h00	3394	Maximilian Kiss, Francien G. Bossema, Paul van Laar, Suzan Meijer, Tristan van Leeuwen, K. Joost Batenburg and Felix Lucka <i>Object-tailored CT scans for cultural heritage objects</i>
15h15	3699	Miriana Marabotto, Leila Es Sebar, Sabrina Grassini, Oleh Yatsuk, Monica Gulmini, Leandro Sottili, Alessandro Lo Giudice and Alessandro Re <i>Characterization of portable X-Ray Fluorescence instruments for non-invasive analyses in archaeometry</i>
15h30	9941	Francien Bossema, Paul van Laar, Daniel O'Flynn, Joanne Dyer, Tristan Van Leeuwen, Suzan Meijer, Erma Hermens and K. Joost Batenburg <i>Fusing 3D imaging modalities for the interior and external investigation of cultural heritage objects</i>
15h45	9948	Alessia Di Benedetto, Marta Ghirardello, Daniela Comelli and Gianluca Valentini <i>A novel multi-modal optical microscope combining Raman and photoluminescence mapping</i>
16h00	2953	Vaclav Krupicka, Florent Grelard, Landry Blanc, Julie Arslanoglu, Nicolas Desbenoit and Caroline Tokarski <i>Paint cross-section layer composition identification and prediction using MALDI-MSI</i>
16h30		Coffee break
17h00		Poster Session 2
18h30		

Tuesday 9th		Building C3 - Auditorium 3.2.15
<b>Session I - Graphic documents   Chaired by João Cruz</b>		
09h30	431	Floriana Coppola, Luca Frigau, Jernej Markelj, Jasna Malešič, Claudio Conversano and Matija Strlič <i>Machine learning and NIR spectroscopy for dating of books</i>
09h45	1313	Jacek Bagnik, Dominika Pawcenis, Monika Koperska, Adriano Mosca Conte, Mauro Missori and Joanna Profic-Paczkowska <i>Characterization of ancient paper degradation state – micro- and noninvasive multimethod approach</i>
10h00	1610	Catarina Miguel, Silvia Bottura-Scardina, Ana Teresa Caldeira, Pedro Flor and António Candeias <i>To be or not to be – what can material analysis say about the so-called Infante D. Henrique in the Crónica Geral da Guiné?</i>
10h15	1728	Marc Vermeulen, Claudia Conti and Alessandra Botteon <i>Seeing through the surface – micro-Spatially Offset Raman Spectroscopy Imaging on paper-based archival documents</i>
10h30	1885	Lucile Brunel-Duverger, Laurence de Viguierie, Victorien Georges, Jeremy Le Bellego, Leila Sauvage and Emline Pouyet <i>In-situ multimodal study of 18th c. pastels</i>
10h45	9150	Raphaël Moreau, Charlotte Denoël, Laurent Pichon and Thomas Calligaro <i>Investigating the polychromy of the Saint-Sever Beatus illuminated manuscript by exploiting spatially coupled XRF/RIS/LIS mappings</i>
11h00		Coffee break
<b>Session I - Graphic documents   Chaired by Oliver Hahn</b>		
11h30	2120	Ekaterina Parnak, Silvia Sequeira and Jasna Malešič <i>Multi-analytical survey of the Norwegian Sea Trade Archive collection of manuscripts with iron-gall ink</i>
11h45	2324	Linguan Cao, Xinyan Jiang, Chunsheng Yan and Hui Zhang <i>Research on Near-infrared Spectroscopy and Raman Spectroscopy of Handmade Paper Based on Machine Learning</i>
12h00	2357	Márcia Vieira, Maria João Melo and Paula Nabais <i>Going green: The secret behind a fragile yet remarkable medieval color</i>
12h15	3045	Zina Cohen, Till Hennings, Oliver Hahn, Philippe Depreux and Ira Rabin <i>Ink Analysis in Carolingian Manuscripts: A Study in black and red</i>
12h30	3504	Gael Latour, Margaux Schmeltz, Laurianne Robinet, Sylvie Heu-Thao, Giulia Galante and Marie-Claire Schanne-Klein <i>Non-invasive quantitative assessment of collagen degradation in parchments by polarization-resolved SHG microscopy</i>

12h45	3948	<a href="#">Luís Manuel de Almeida Nieto</a> , Lukasz G. Migas, Joris Dik, Matthias Alfeld and Raf Van de Plas <i>Advancing the Analysis of Historical Manuscripts by Combining Machine Learning with Reflectance Imaging Spectroscopy</i>
13h00		Lunch break
<b>Session I - Graphic documents   Chaired by Catarina Miguel</b>		
15h00	4507	<a href="#">Gianluca Pastorelli</a> , Annette S. Ortiz Miranda, Ermanno Avranovich Clerici, Paolo d'Imporzano, Koen Janssens, Gareth R. Davies and Niels Borring <i>A multi-analytical study of lead white darkening in old master drawings at the National Gallery of Denmark</i>
15h15	5343	<a href="#">Fabiana Di Gianvincenzo</a> , Hassan Ebeid, Irena Kralj Cigić and Matija Strlič <i>Chromatographic analysis of natural dyes used in Islamic paper manufacture</i>
15h30	5578	<a href="#">Arthur Gestels</a> , Thomas De Kerf, Frederik Vanmeert, Francesca Gabrieli, Koen Janssens, Gunther Steenackers and Steve Vanlanduit <i>Calibration of reflectance imaging spectroscopy using MA-XRPD for 16th century illuminated manuscript</i>
15h45	5757	<a href="#">Barbara Wagner</a> , Jakub Karasiński, Ludwik Halicz, Piotr Targowski, Dorota Jutrzenka-Supryn, Ewa Chlebus, Paulin Pludra-Żuk, Monika Opalińska and Zofia Stos-Gale <i>Pb isotope-based studies of manuscripts' origin: non-invasive tracing of parchment fragments to the 11th century</i>
16h00	6022	<a href="#">Natércia Teixeira</a> , Hugo Cruz, André Neto E Silva, Luís Cunha-Silva, Paula Nabais, Fernando Pina, Victor de Freitas and Maria João Melo <i>Medieval writing: the chemistry behind iron gall inks</i>
16h15	6086	<a href="#">Grzegorz Nehring</a> , Oliver Hahn and Ira Rabin <i>Exotic writing inks and how to identify them</i>
16h30		Coffee break
17h00		Poster Session 2
18h30		

<b>Tuesday 9th Building C3 - Auditorium 3.2.16</b>		
<b>Session C - Glass and related materials   Chaired by Sophie Wolf</b>		
09h30	2651	<a href="#">Emma Paolin</a> , Fabiana Di Gianvincenzo, Irena Kralj Cigić and Matija Strlič <i>Chemical and sensory analysis of a perfume flask with gas chromatography-olfactometry</i>
09h45	1743	<a href="#">Victoria Corregidor</a> , Luís C. Alves, Inês I. Mendes da Silva, Ana L. Rodrigues, António P. Gonçalves, Luís Ferreira, Miguel Reis, Cristina Chaves, Dulce Russo and Rosa Marques <i>Non-destructive characterization of colored mineral glazed beads</i>
10h00	2284	<a href="#">Grégoire Chêne</a> , Bernard Gratuze, Patrick Degryse, David Strivay and Line Vanwersch <i>Early medieval age glass production techniques studies : an Inter-laboratory and multi-analytical techniques intercomparison campaign</i>
10h15	5939	<a href="#">Francesca Gherardi</a> , Marine Cotte, Ewan Campbell, Rachel Tyson and Sarah Paynter <i>Investigating the role of iron and manganese oxides in colouring late antique glass by XANES and micro-XRF spectroscopies</i>
10h30	5718	<a href="#">Carla Machado</a> , Mohamed Oujja, Marina Martínez-Weinbaum, Laura Maestro-Guijarro, Marta Castillejo, Márcia Vilarigues and Teresa Palomar <i>Laser-based techniques for the characterization of historically accurate grisaille paint reproductions</i>
10h45	6015	<a href="#">Hon Wen Chen</a> and Chin Ssu Cheng <i>Nondestructive XRD (X-ray Diffraction) crystallization and XRF (X-ray fluorescence) analysis of Taiwan indigenous glass beads</i>
11h00		Coffee break
<b>Session C + A - Glass and related materials + Analytical methods   Chaired by Andreas Karydas</b>		
11h30	6341	Sophie Wolf, <a href="#">Alessandra Vichi</a> and Francesco Caruso <i>Unveiling the secrets of 'verre églomisé' paintings: potential and limits of a non-destructive analysis</i>
11h45	8160	<a href="#">Oleh Yatsuk</a> , Sabrina Molinaro, Patrizia Davit, Anzhelika Kolesnychenko, Stanislav Zadnikov, Iryna Shramko, Lorena Carla Giannossa, Annarosa Mangone, Giulia Berruto, Roberto Giustetto and Monica Gulmini <i>Analysis of vitreous beads from the Iron Age site of Bilsk hillfort (Ukraine): an insight into glass-making technology and trade networks.</i>
12h00	9426	<a href="#">Stefania Martinello</a> , Claudia Sciuto, Antonella Capitanio, Giulia Lorenzetti, Stefano Legnaioli, Filippo Sala, Paolo Torriti and Simona Raneri <i>Portable XRF and Raman spectroscopies to outline the story of Medieval precious objects</i>
12h15	1573	<a href="#">Alexandra Rodrigues</a> , Mario Bandiera, Paul van Laar, Erma Hermens and Márcia Vilarigues <i>Blue enamels. A preliminary non-invasive study of the blue enamels in objects from the Fitzwilliam Museum</i>
12h30	4474	Joana Palmeirão, Margarida Nunes, Ana Manhita, Maria Coutinho, Eduarda Vieira and <a href="#">Teresa Ferreira</a> <i>The ceroplastic simulacra of Vitoria, Eleonora and Martian</i>
13h00		Lunch break
<b>Comercial session   Chaired by Mauro Guerra</b>		
15h00		Emilien Leonhardt, Hiox <i>100 billion pixel 3D color scan of Vermeer's Girl with a Pearl Earring using the Hiox digital microscope</i>
15h15		Marta Ghirardello, NIREOS <i>HERA: a novel hyperspectral camera for cultural heritage analysis</i>
15h30		Michele Girona, Bruker Nano Analytics <i>Bruker Nano Analytics, Iconic Instruments for Art</i>
15h45		Hannah Conway-Laws, Opus Instruments <i>An Introduction to Opus Instruments: Leaders in Art &amp; Analysis</i>
16h00		Forenscope
16h15		Jani Santos, XpectralTEK <i>Optimization of Art Analysis methods based on the XpeCAM Solution</i>
16h30		Coffee break
17h00		Poster Session 2
18h30		

<b>Wednesday 10th Building C3 - Auditorium 3.2.14</b>		
<b>Session J - Pigments and dyes   Chaired by Kostas Hatzigiannakis</b>		
09h00	ID	Victor Gonzalez <i>Investigating the synthesis, use and alteration of historical pigments at the multi-scale</i>
09h30	4352	<a href="#">Sanne Berbers</a> , Rika Pause, Inez van der Werf, Klaas Jan van den Berg and Maarten van Bommel <i>Fanal® pigments in the spotlight</i>
09h45	4366	<a href="#">Silvia Garrappa</a> , Valentina Pintus, Anthony J. Baragona, David Hradil, Ferenc Szabo and Katja Sterflinger <i>Different shades of cadmium soaps in mock-up oil paints: first multi-analytical investigation</i>
10h00	6025	<a href="#">Nina Deleu</a> , Steven De Meyer, Frederik Vanmeert, Geert Van der Snickt, Jana Sanyova and Koen Janssens <i>Combined in situ MA-XRPD and cross-section SR-μ-XRPD imaging for the study of copper sulfates: an overlooked group of green copper pigments in Flemish Renaissance art</i>

10h15	6174	<a href="#">Paula Nabais</a> , Mara Santo, Natércia Teixeira, Mila Crippa and Dominique Cardon <b>Molecular fluorescence: disclosing the dyeing formulations of weld yellows from 18th-century recipe books</b>
10h30	7057	Cyrielle Messager, <a href="#">Lucile Beck</a> , Dominique Blamart, Patricia Richard, Katarina Batur, Victor Gonzalez and Eddy Foy <b>Carbon isotopes in lead white: absolute dating and manufacturing process identification of the pigment</b>
10h45	8529	<a href="#">Camilla Tartaglia</a> , Maria Pia Riccardi, Gianlorenzo Bussetti and Alberto Grimoldi <b>Micromorphological observations as a potential method to study indigo blues</b>
11h00		Coffee break
<b>Session J - Pigments and dyes   Chaired by Victor Gonzalez</b>		
11h30	1349	<a href="#">Giovanni Cavallo</a> , Mariapia Riccardi and Roberto Zorzin <b>A mineralogical and geochemical database of Fe-bearing mineral pigments from North-Eastern Italy</b>
11h45	1820	<a href="#">Marta Magalini</a> , Alessandro Lo Giudice, Alessandro Re, Laura Guidorzi, Alessandro Borghi, Massimo Vidale, Dennys Frenez, Toshi Nozaka, Leonardo La Torre, Laurent Pichon, Quentin Lemasson, Brice Moignard and Claire Pacheco <b>New light on the provenance of lapis lazuli found in Shahr-i Sokhta site using Ion Beam Analysis.</b>
12h00	5131	<a href="#">Corentin Cou</a> , Hortense de la Codre, Xavier Granier and Aurélie Mounier <b>Pearson correlation-based method on hyperspectral images for the study of similarity of pigments and dyes</b>
12h15	6901	Lucia Burgio <b>The Renaissance of Indigenous American Lacquer – a Review of Current Research</b>
12h30	7462	<a href="#">Ekaterina Morozova</a> , Irina Kadikova and Svetlana Pisareva <b>Titanium dioxide-based paints produced in the USSR: a study of archival materials and reference samples</b>
12h45	8288	<a href="#">Jorien Duivenvoorden</a> , Federico Caporaletti, Sander Woutersen, Katrien Keune and Joen Hermans <b>DSC and cryo-FTIR indicate presence of water clusters in zinc-white oil paint</b>
13h00		Lunch break
<b>Session K - Varnishes and resins   Chaired by Demetrios Anglos</b>		
14h30		Stamatis C. Boyatzis <b>Non-invasive infrared spectroscopy of varnishes on artworks</b>
15h00	2243	<a href="#">Victoria Beltran</a> , Andrea Marchetti, Patricio Guerrero, Ferenc Borondics, Christophe Sandt, Mario Scheel, Wim Dewulf, Ligia Maria Moretto and Karolien De Wael <b>The interaction between geranium lake particles and drying oil assessed by SR-<math>\mu</math>FTIR and SR-XCT</b>
15h15	3633	<a href="#">Chiara Chillè</a> , Charis Theodorakopoulos and Marianne Odlyha <b>Further studies on the breakdown of selected natural and synthetic artists' varnishes upon Er:YAG laser irradiation</b>
15h30	8131	<a href="#">Valentina Pintus</a> , Carlotta Cozzani, Silvia Miklin, Paula Gassmann and Katja Sterflinger <b>Mind the cracks! Chemical and physical changes of blended Thitsiol/Urushiol Asian lacquers elucidated through a novel multi-analytical study</b>
15h45	5207	<a href="#">Elisabet Serrat</a> , Javier Becerra, Anna Vila and Aleix Barberà <b>Use of 3D Scanning to the study of craquelures on Joan Miró's "Pintura"</b>
16h30		Coffee break
17h00		Poster session 3
18h30		
20h00		Dinner at Casa do Alentejo

Wednesday 10th Building C3 - Auditorium 3.2.15		
<b>Session L - Mural paintings   Chaired by Maite Maguregui</b>		
09h30	2586	<a href="#">Alice Dal Fovo</a> , Jana Striova, Enrico Pampaloni, Irene Lunghi, Marco Raffaelli and Raffaella Fontana <b>Revealing unseen evidence of the hand of Masolino, Masaccio and Lippi in the Brancacci Chapel frescoes</b>
09h45	2623	<a href="#">Iliaria Costantini</a> , Idoia Etxebarria, Iñaki Vázquez de la Fuente, Julene Aramendia, Gorka Arana, Irantzu Martínez-Arkarazo, Juan Manuel Madariaga, Macarena Sanz, Lucía Pérez, Ángel Yedra, Beatriz Yécora and Tamara Oroz <b>Multi-technical approach for the study of the conservation state of mural paintings of Navacerrero (Spain)</b>
10h00	2885	<a href="#">Tiziana Lombardo</a> , Marta Caroselli, Camilla Martinucci, Erwin Hildbrand, Patrizia Moretti and Patrick Casitti <b>Investigation of the Carolingian and Romanesque wall paintings detached from the church of St. Johann in Müstair</b>
10h15	9809	<a href="#">Valeria Di Tullio</a> , Noemi Proietti, David Buti, Sveva Longo, Alberto Felici, Donata Magrini and Cristiano Riminesi <b>Water profile distribution inside wall paintings by NMR-MOUSE in combination with evanescent-field dielectrometry technique and near-IR reflectance spectroscopy</b>
10h30	719	<a href="#">Sihan Zhao</a> , Zhibo Zhou, Lin Zhang and Hui Zhang <b>Identification of Fake Gold Gilding Material in the Ancient Wall Paintings by Mass Spectrometry Imaging</b>
11h00		Coffee break
<b>Session L - Mural paintings   Chaired by Milene Gil</b>		
11h30	3854	<a href="#">Giasemi Frantzi</a> , Harikleia Brekoulaki, Andreas Germanos Karydas, Georgios P. Mastrotheodoros, Stamatios Boyatzis and Panayiotis Theoulakis <b>Investigating colour on Archaic architecture: A case study on the Peisistrateion Telesterion at Eleusis</b>
11h45	3863	<a href="#">Francesca Sabatini</a> , David Buti, Fauzia Albertin, Brenda Doherty, Letizia Monico, Aldo Romani, Francesca Rosi, Maria Sileo, Nicodemo Abate, Antonio M. Amodio, Nicola Masini, Antonio Pecci and Laura Cartechini <b>Urban art in Milan: non-invasive analytical strategies for the study of street art murals</b>
12h00	4468	<a href="#">Maite Maguregui</a> , Francesco Caruso, Francesco Giannici, Alessandra Vichi, Claudio Ventura Bordenca, Olivier Mathon and Marine Cotte <b>Metallic mercury, at last! Synchrotron radiation-based study on Pompeian cinnabar wall paintings</b>
12h15	7854	<a href="#">Ermanno Avranovich Clerici</a> , Steven De Meyer, Frederik Vanmeert, Letizia Monico, Costanza Miliani and Koen Janssens <b>Cumengeite in wall paintings, intentional application or secondary product?</b>
12h30	4249	<a href="#">Zhenkai Chen</a> , Wenjing Zhou, Hongbo Zhang, Liang Qu, Guanghua Li and Yingjie Yu <b>Identification of Mural Damages with Laser Holographic Speckle Interferometry with Acoustic Excitation</b>
13h00		Lunch break
<b>Session I - Graphic documents   Chaired by Victoria Corregidor</b>		
15h00	6148	<a href="#">Michela Perino</a> , Edoardo Colonna, Anna Candida Felici, Vittoria Bruni, Domenico Vitulano and Michela Rosellini <b>New insight into the palimpsests of Ars Prisciani</b>
15h15	6315	<a href="#">Sara Mazzocato</a> , Dafne Cimino and Claudia Daffara <b>Integrated microprofilometry and multispectral imaging for full-field analysis of ancient manuscripts</b>
15h30	6494	<a href="#">Heinz-Eberhard Mahnke</a> , Tzulia Angos, Tobias Arit, Klaus Lips, Joseph E. McPeak and Verena Lepper <b>A New Approach for Accessing Hidden Text on Papyri Written with Carbon Ink*</b>
15h45	7594	<a href="#">Lucia Pereira-Pardo</a> , Paul Dryburgh, Marc Vermeulen, Elizabeth Biggs, Peter Crooks, Adam Gibson, Molly Fort, Constantina Vlachou-Mogire, Moira Bertasa, John R Gilchrist and Jon Danskin <b>Reading the Unreadable. Advanced Imaging to Recover Illegible Text in Historic Documents</b>
16h00	7948	<a href="#">Juliana Bittencourt</a> , Márcia Rizzutto, Wanda Engel, Maria Aparecida Borrego, Phablo Fachin, Regina Hauy, Jean Souza, Igor Cassemiro, Maria Luiza Lamardo and Mariza Koga

<i>Material investigation on Italian and Portuguese papers from the Republican Museum Convention of Itu, Brazil</i>	
16h15	8493 <a href="#">Andrei Kazanskii</a> , Jitka Neoralová, Rita Lyons Kindlerová, Dana Novotná, Petra Vávrová, Daniel Vavřík, Ivana Kumpová, Michal Vopálenký and Tomáš Kyncl <i>The use of X-ray computed tomography and X-ray fluorescence in the research of historical printing from the 17th century</i>
16h30	Coffee break
17h00	Poster Session 3
20h00	Dinner at Casa do Alentejo

Wednesday 10th		Auditorium 3.2.16
Session M + A - Polymers + Analytical methods   Chaired by Paula Carmona-Quiroga		
09h30	148	<a href="#">Eva Mariasole Angelin</a> , <a href="#">Anna Micheluz</a> and Marisa Pamplona <i>Investigation of the discoloration of polyurethane elastomeric plastics in computer heritage: have we met an analytical challenge?</i>
09h45	288	<a href="#">Tjaša Rijavec</a> , Matija Strlič and Irena Kralj Cigić <i>Predicting the yellowing of PVC objects in heritage collections</i>
10h00	635	<a href="#">Jacek Bagniuł</a> , Monika A. Koperska, Dominika Pawcenis and Joanna Profic-Paczkowska <i>A systematic approach to study natural polymer ageing and condition. Analysis contra model</i>
10h15	1262	<a href="#">Irene Bargagli</a> , Laura Cartechini, Brenda Doherty, Francesca Sabatini, Martina Alunni Cardinali, Lucia Comez, Marco Paolantoni, Valeria Di Tullio, Noemi Proietti, Costanza Miliani, Daniele Fioretto, Elisa Storage, Sara Russo, Rafaela Trevisan and Francesca Rosi <i>Mechano-chemical monitoring of plastic degradation: surface and sub-surface modification of artificially aged ABS</i>
10h30	5972	<a href="#">Ioanna Mantouvalou</a> , Leona Bauer, Oleksandra Marushchenko, Ioannis Siouris, Maram Naes and Birgit Kanngießer <i>SynC Lab for cultural heritage – joint X-ray imaging and spectroscopy measurements at the synchrotron and in the laboratory</i>
10h45	5852	<a href="#">Wolfgang Kautek</a> , <a href="#">Valentina Ljubic Tobisch</a> , Klaudia Hradil, Karin Whitmore, Christina Strelj and Peter Wobruschek <i>Surface Characterization of Austrian Daguerreotypes</i>
11h00	Coffee break	
Session N - Scientific and technological heritage   Chaired by Isabel Tissot		
11h30	902	<a href="#">Aurore Malmert</a> , Clarisse Chavanne, Alain Brunelle and Emeline Pouyet <i>Non-invasive analyses of E. Chevreul's chromatic circles</i>
11h45	3785	<a href="#">Jacopo La Nasa</a> , Catharina Blaensdorf, Eleonora Dolcher, Riccardo Ducoli, Serena Del Seppia, Jeannette J. Lucejko, Antonella Mannariti, Anna Micheluz, Francesca Modugno, Neva Capra, Lucia Giovannini, Maria Luisa Tomasi, Marisa Pamplona, Maria Perla Colombini, Ilaria Degano and Ilaria Bonaduce <i>Aerospace technology as part of our heritage: characterization of aircraft materials and study of their degradation processes by analytical pyrolysis</i>
12h00	4606	<a href="#">Lorna Brundrett</a> , Rebecca Ploeger, Aaron Shugar, Jiu-an Jiu-an Chen, Emily Hamilton and Theresa J. Smith <i>19th-Century Medical Saddlebag: An Analysis of the Medicinal Contents</i>
12h15	2101	<a href="#">Miriam Pressato</a> , Teresa Lança Ruivo, Catarina Miguel, António Candeias and Sara Valadas <i>Study of 18th century Chinese wallpapers from the National Museum of Ancient Art (Lisbon): a multi-analytical approach</i>
12h30	4288	<a href="#">Taren Ginter</a> , Megan Gallagher, Shaelyn Horvath, Josephine La Macchia, Sonia Marotta and Fiona E. McNeill <i>The Beautifying Properties of Historical White Lead Makeup</i>
12h45	5051	<a href="#">Jens Gold</a> , Francesco Caruso, Noëlle Lynn Wenger Streeton and Maite Maguregui <i>Discovering Lippmann interferential colour photography at the Preus Museum through a non-invasive multianalytical approach</i>
13h00	Lunch break	
Session O - Modern materials and contemporary art   Chaired by Claudia Caliri		
15h00	8390	<a href="#">Tea Ghigo</a> , Kelly Domoney, Daniel Bone and Andrew Beeby <i>Archival research and material analyses to explore artists' attitudes towards pigments' durability: John Ruskin and the 19th-century Colour Revolution</i>
15h15	8043	<a href="#">Francesca Galluzzi</a> , Rémy Chapoulie, Floréal Daniel, Regine Bigorne, Laurent Vedrine and Aurélie Mounier <i>Goupil &amp; Cie and the democratisation of art in the 19th century: A non-invasive investigation of mechanical reproductions of artworks</i>
15h30	8343	<a href="#">Fauzia Albertin</a> , Aldo Romani, Claudio Costantino, David Buti, Letizia Monico, Francesca Sabatini, Donata Magrini, Claudia Caliri, Claudia G. Fatuzzo, Zdenek Preisler, Francesco Paolo Romano, Costanza Miliani, Aurélie Tournie, Christine Andraud, Irina Crina Anca Sandu, Jiu Strand Ferrer, Giorgio Luciano, Laura Cartechini and Francesca Rosi <i>Multi-source data fusion of modern complex paintings</i>
15h45	9962	Pierre Taugeron, Sullivan Bricaud, Cindie Kehlet and <a href="#">Jens Dittmer</a> <i>New techniques for NMR depth profiles with enhanced resolution and sensitivity and the study of mobile phases in paint layers, applied to a white Nevelson sculpture</i>
16h00	297	Stefano Legnaioli, Giulia Lorenzetti, <a href="#">Luca Nodari</a> , Rosa Costantini, Patrizia Tomasin and Luciano Pensabene Buemi <i>"Ce n'est pas la colle qui fait le collage": the analytical challenge of Ernst's multi-material artworks</i>
16h30	Coffee break	
17h00	Poster Session 3	
18h30		
20h00	Dinner at Casa do Alentejo	

Thursday 11th		Building C3 - Auditorium 3.2.14
Session P - Metals   Chaired by Robert Van Langh		
09h00	ID	<a href="#">Isabel Tissot</a> <i>Through a metal darkly: How analytical techniques brighten the conservation of cultural heritage metallic objects</i>
09h30	603	<a href="#">Stephen Merkel</a> , Paolo D'Imporanzo, Rory Naismith, Gareth Davies and Jane Kershaw <i>New application of portable laser sampling for Pb isotope analysis of silver</i>
09h45	2594	<a href="#">Isabel Rute Fontinha</a> , Maria João Correia and Elsa Eustáquio <i>Electrochemical techniques for patinas and coatings assessment in conservation studies</i>
10h00	2762	<a href="#">Alexandre Gillon</a> , Charbel Koumeir, Charlene Pelé-Méziani, Gildas Salaün, Ferid Haddad and Guy Louarn <i>Investigation of the new world silver provenance and trade in Europe during the 16th and 17th centuries: HE-PIXE and p-XRF spectroscopic analysis</i>
10h15	4056	<a href="#">Javier Moreno-Soto</a> , Miguel A. Respaldiza, Simona Scrivano, Ruth Pliego, Blanca Gómez-Tubío, Enrique García-Vargas and Francisca Chaves-Tristan <i>An approach to the metallic composition of the Carthage mint coins from the tetrarchic hoard of Tomares</i>
11h00	Coffee break	

		Session A+ Q - Analytical methods + Paints   Chaired by Stamatis Boyatzis
11h30	6957	<a href="#">Pedro Alexandre Caetano Alves</a> and Francesca Caterina Izzo <i>The Molecular Clock of Ageing Oils</i>

11h45	2880	Ophélie Ranquet, Giulia Caroti, Rafaella Georgiou, Patrick Dietemann, Norbert Willenbacher, Celia Duce and <a href="#">Ilaria Bonaduce</a> <b>Mass spectrometry and thermoanalytical techniques to understand the transition from egg tempera to oil paint in Italian Renaissance</b>
12h00	4783	<a href="#">Ida Fazlic</a> , Marine Cotte, Victor Gonzalez, Frederik Vanmeert, Arthur Gestels, Steven De Meyer, Frédérique Broers, Joen Hermans, Annelies van Loon, Ermanno Avranovich Clerici, Koen Janssens, Petria Noble, Jitte Flapper, Bas De Bruin and Katrien Keune <b>Lead(II) Formate: from Historical to Model Paints</b>
12h15	3533	Lucie Laporte, Guylaine Ducouret, Sophie Rochut, Frédéric Gobeaux and <a href="#">Laurence de Viguier</a> <b>Influence of lead driers on oil paint properties</b>
12h30	3713	<a href="#">Lucilla Pronti</a> , Martina Romani, Marcella Ioele, Ilaria Sinceri, Elena Cianca, Eleonora Gorga, Gloria Tranquilli, Francesca Fumelli and Mariangela Costelli Guidi <b>Micro and Macro FT-IR spectroscopic imaging and mapping as a tool for the detection of degradation products and for monitoring the cleaning processes of painted surfaces</b>
12h45	7043	<a href="#">Alba Alvarez Martin</a> , Teresa Scovacricchi, Jusal Quanic, Ermanno Avranovich Clerici, Geert Baggerman, Frederik Vanmeert, Arthur Gestels and Koen Janssens <b>Tracking secondary products in aged paint cross-sections by MALDI-MS Imaging</b>
13h00		Lunch break
<b>Session P - Metals   Chaired by Costanza Miliani</b>		
14h30		Francesco Grazi <b>Non-invasive analysis of historical and archaeological metal artefacts through neutron imaging and neutron diffraction: highlights and case studio</b>
15h00	790	<a href="#">Giulia Festa</a> , Claudia Caliri, Giulia Privitera, Claudia G. Fatuzzo, Danilo P. Pavone, Claudia Scatigno, Enrico Ferraris, Johannes Auenmüller, Costanza Miliani and Francesco Paolo Romano <b>Studying Ancient Egyptian metal vessels by X-ray diffraction and Machine Learning.</b>
15h15	955	<a href="#">Yueer Li</a> , Lambert van Eijck, Francesco Cantini, Oriol Sans Planell, Marta Magalini, Johannes Auenmüller, Sara Aicardi, Valentina Turina, Luisa Vigorelli, Lorenzo Dotto, Alessandro Re, Alessandro Lo Giudice, Leila Es Sebar, Miriana Marabotto, Sabrina Grassini, Nicla Gelli and Francesco Grazi <b>New insights into ancient Egyptian bronze votive coffins for animal mummies through Neutron Imaging and Neutron Activation Analysis</b>
15h30	8437	<a href="#">Francesco Abate</a> , Michela De Bernardin, Maria Stratigaki, Giulia Franceschin, Fauzia Albertin, Matteo Bettuzzi, Rosa Brancaccio, Anita Bressan, Maria Pia Morigi, Salvatore Daniele and Arianna Traviglia <b>Renewing archaeological practice with modern technology: <math>\mu</math>XCT for the facile screening of excavated copper coins</b>
15h45	8566	<a href="#">Francesco Armetta</a> and Maria Luisa Saladino <b>Methodological approaches for underwater archeological metals investigation</b>
16h30		Coffee break
17h00		Poster session 4
18h30		

<b>Thursday 11th Building C3 - Auditorium 3.2.15</b>		
<b>Session D - Sustainable conservation   Chaired by Katrien Keune</b>		
09h30	276	<a href="#">Maduka Lankani Weththimuni</a> , Chaehoon Lee, Chiara Milanese, Barbara Viganì, Marco Malagodi, Silvia Rossi and Maurizio Licchelli <b>A Comparative study of "green" and synthetic gels as tools for the cleaning of artifacts</b>
09h45	2796	<a href="#">Lucrezia Barchi</a> , Gabriele Cencetti, Massimiliano Frattoni, Marco Michelozzi, Cristiano Riminesi, Aldo Romani, Francesca Rosi, Diego Sali, Francesca Vichi and Costanza Miliani <b>New strategies for VOCs control in museums showcases</b>
10h00	3363	<a href="#">António Carrapico</a> , Maria Rosário Martins, Ana Teresa Caldeira, Ana Cardoso, Elisabete Carreiro, José Mirão and Luís Dias <b>AgNPs applied to Cultural Heritage: Exploring its antimicrobial potential using "Green" approaches</b>
10h15	6250	<a href="#">Chaehoon Lee</a> , Maduka L. Weththimuni, Francesca Di Turo, Barbara Viganì, Fabio Beltram, Pasqualantonio Pingue, Silvia Rossi, Maurizio Licchelli, Marco Malagodi, Haejin Park, Yongjae Chung, Francesca Volpi and Giacomo Fiocco <b>Not Just for Eating! Alginate-based Gels and Their Application Studies</b>
10h30	7074	<a href="#">Chiara Genova</a> , Marzia Beccaccioli, Alessandro Lazara, Alessandro Ciccola, Simona Sennato, Gabriele Favero and Alessia Masi <b>Development of environmentally-friendly biocidal systems based on chitosan-nanoparticles loaded with R-(+)-pulegone to protect wood from fungal attack</b>
10h45	1612	<a href="#">Francesca Ramacciotti</a> , Laure Cazals, Giorgia Sciutto, Rocco Mazzeo, Silvia Prati, Loïc Bertrand and Mathieu Thoury <b>Photoluminescence MA-imaging for the assessment and study of new cleaning systems</b>
11h00		Coffee break
<b>Session E + R - Archaeological Materials and Sites + Stone   Chaired by Francesco Caruso</b>		
11h30	3698	<a href="#">Iñaki Vázquez de la Fuente</a> , Idoia Etxebarria, Ilaria Costantini, Marco Veneranda, Nagore Prieto Taboada, Giuseppe Di Girolami, Angela Di Lillo, Marina Caso, Mario Notomista, Rossella Di Lauro, Kepa Castro, Gorka Arana and Juan Manuel Madariaga <b>Degradation of tuff buildings at the Archaeological park of Herculaneum (Italy): preliminary multianalytical study</b>
11h45	4798	<a href="#">Ewa Bulska</a> , Mariusz Ziolkowski <b>Analytical scenario for the investigation of Machu Picchu cultural heritage in Peru</b>
12h00	9285	<a href="#">Jorge Sanjurjo Sánchez</a> , Rebeca Blanco-Rotea, Rosa Benavides, David Freire Lista, Jose Carlos Sánchez-Pardo, Isabel Prudêncio, Isabel Dias and Chris Burbidge <b>Absolute dating of building materials from the Santalla de Bóveda Monument (Lugo, NW Spain)</b>
12h15	7999	Rana Nur Karataş, <a href="#">Amine Seyhun Alkan Reis</a> , Mahmud Çavur, Murat Güvenc, Yonca Erkan, Sude Erkmen and Füsün Alioğlu <b>Remote Sensing for Land Use and Land Cover Change: Interpretation of Iznik's Rural Heritage</b>
12h30	7243	<a href="#">Fernanda Carvalho</a> , Maria Margarida Lima and João Pedro Veiga <b>Mineralogical identification of historical mortars from built heritage using Raman spectroscopy</b>
13h00		Lunch break
<b>Session R - Stone   Chaired by Patrizia Tomasin</b>		
15h00	783	<a href="#">Sara Calandra</a> , Claudia Conti, Irene Centauro and Emma Cantisani <b>Micro-Raman spectroscopy for identification of calcite types in historical mortars: applications in archaeometry</b>
15h15	3043	<a href="#">Milena Anfosso</a> , Doria Costa, Laura Gaggero, Silvia Vicini, Francesca Piqué, Mauro Matteini and Angelita Mairani <b>A new consolidation protocol with Di-ammonium phosphate for Italian Stones</b>
15h30	4670	<a href="#">Paulina Guzman Garcia Lascrain</a> , Sara Goidanich, Irene de Giuli, Carlos Rodríguez-Navarro and Lucia Toniolo <b>Study of the influence of micro- &amp; nano-cellulose on the growth and carbonation kinetics of portlandite particles</b>
15h45	6147	<a href="#">Andrea Campostriani</a> , Sabrina Manente, Alessandro Di Michele, Elena Ghedini, Michela Signoretto and Federica Menegazzo <b>High-tech multifunctional marmorino plaster with antimicrobial and self-cleaning properties</b>
16h00	6297	Luis Almeida, <a href="#">António Santos Silva</a> , Rosário Veiga and José Mirão <b>Combined application of petrography and SEM-EDS: outputs for accurate identification of binders in hydraulic mortars</b>
16h15	6775	Laura Maestro-Guijarro, Sagrario Martínez-Ramírez, Santiago Sanchez-Cortes, José Francisco Marco, Juan de la Figuera, Marta Castillejo, Mohamed Oujja and <a href="#">Paula Carmona-Quiroga</a> <b>Calcium-silicate-hydrate SERS substrate for cement characterization</b>
16h30		Coffee break
17h00		Poster session 4
18h30		

Thursday 11th		Building C3 - Auditorium 3.2.16
<b>Session A + R - Analytical methods + Rock art   Chaired by Márcia Vilarigues</b>		
09h30	2221	<a href="#">Clarissa Dominici</a> , Chiaramaria Stani, Giovanni Birarda, Francesco Boschin, Lisa Vaccari and Adriana Moroni <i>Monitoring changes in human activities across the Upper Palaeolithic: a statistical approach for the critical assessment of ancient organic residues through SR-FTIR microscopy</i>
09h45	5178	Daniela Puzio, Alessia Andreotti, Luca Bachechi, Giulia Lorenzetti, <a href="#">Stefano Legnaioli</a> , Simona Raneri and Vincenzo Palleschi <i>Discovering the rock paintings of the Ethiopian plateau: the Goda Daga Barru and Enda Aba Shillemun shelters</i>
10h00	5751	<a href="#">Laura Rabbachin</a> , Guadalupe Piñar, Irit Nir, Ariel Kushmaro, Mariela Pavan, Elisabeth Eitenberger, Monika Waldherr, Alexandra Graf and Katja Sterflinger <i>From the desert to the Alps: a study to unveil biodeterioration patterns of historical petroglyphs integrating metagenomics with analytical techniques</i>
10h15	5839	<a href="#">José Tapia</a> , Myriam Eveno, Pablo Arias, Thomas Calligaro, Laurent Pichon, Sebastian Schöder, Katharina Müller and Ina Reiche <i>Confocal XRF depth profiling combined with XRF mapping to non-destructively understand the stratigraphy of prehistoric cave art</i>
10h30	5922	<a href="#">Victory Jaques</a> and Katarína Holcová <i>Calcareous nanofossils assemblage in paintings chalk ground for provenance analysis: 3 original paintings compared to European source materials</i>
10h45	5145	Pablo Pérez-Vasallo, David Juanes and <a href="#">Eusebio Solórzano</a> <i>WideXcan: An automated high resolution X-ray radiography system for large artwork pieces</i>
11h00		Coffee break
<b>Session E + A - Archaeological materials + Analytical methods   Chaired by Ewa Bulska</b>		
11h30	1729	<a href="#">Dorothy Parungao</a> , António Candeias, Joao Lopes and Catarina Miguel <i>Are Infrared and Chemometrics up to the Tusk? On the Use of In-situ Infrared Spectroscopic Techniques for the Study of the Provenance of Historic Ivories</i>
11h45	8045	<a href="#">Laurent Tranchant</a> , Pierre Gueriau, Sebastian Schöder, Serge Cohen, Loïc Bertrand and Mathieu Thoury <i>Detecting visual and chemical modifications induced by the high-flux synchrotron X-ray analysis of ancient teeth</i>
12h00	7832	<a href="#">Enrico Greco</a> , Andrea Maria Gennaro, Daniela Costanzo, Dario Piombino-Mascali, Simona Accardo, Sabina Licen, Pierluigi Barbieri, Sara Signoretti, Caterina Gabriele and Marco Gaspari <i>Dental proteomic analyses reveal the sex of human remains from the Greek cemetery of San Giorgio Extra, Reggio Calabria (Italy)</i>
12h15	7909	<a href="#">Calin Steindal</a> , Pia Edqvist, Enrico Greco, Sabina Licen, Pierluigi Barbieri, Anastasia Serena Gaetano, Alberto Pallavicini, Fiorella Florian, Sara Signoretti, Caterina Gabriele and Marco Gaspari <i>Waterlogged pelt: from conservation to species identification</i>
12h30	4916	<a href="#">Leila Birolo</a> , Georgia Ntasi, Andrea Carpentieri, Manuela Rossi, Schisano Chiara, Chiara Melchiorre, Miriam Alberico, Brunella Cipolletta, Giovanna Scarano and Alessandro Vergara <i>Ancient proteins: from identification to characterization. A review and the case of the funeral equipment in a Hellenistic young woman tomb from Battipaglia</i>
12h45		Lunch break
<b>Session S + A - Wood + Analytical methods   Chaired by Diego Tamburini</b>		
15h00	3189	<a href="#">Costanza Cucci</a> , Juri Agresti, Giovanni Bartolozzi, Francesco Grazi, Marcello Picollo, Lorenzo Stefani, Teresa Brancolini, Giulia Basilissi and Anna Consonni <i>Technical studies in Egyptology. Multi-modal imaging and multi-range spectroscopies shed light on a rare wooden polychrome chest</i>
15h15	4882	<a href="#">Sveva Longo</a> , Enza Fazio and Silvia Capuani <i>Non-destructive identification of wood from XVII Century panel painting using clinical X-ray computed tomography Hounsfield Units scale</i>
15h30	8880	<a href="#">Chiara Ricci</a> , Paola Buscaglia, Debora Angelici, Anna Piccirillo, Federica Pozzi, Paola Manchinu, Leila Es Sebar, Luca Lombardo, Sabrina Grassini, Federico Di Iorio, Sara Croci, Laura Vigo and Davide Quadrio <i>Aiding the conservation of two wooden Buddhist sculptures with 3D imaging and spectroscopic techniques</i>
15h45	9209	<a href="#">Eva Hartlieb</a> , Pascal Ziegler, Andreas Baumann, Peter Schöler and Peter Eberhard <i>Newly developed transportation frame for a fragile wooden panel painting</i>
16h00	1910	<a href="#">Chiaramaria Stani</a> , Claudia Invernizzi, Giovanni Birarda, Patrizia Davit, Lisa Vaccari, Marco Malagodi, Monica Gulmini and Giacomo Fiocco <i>Revealing new secrets behind the Stradivari's craftsmanship: an infrared investigation at the nanoscale.</i>
16h30		Coffee break
17h00		Poster session 4
18h30		Closing Ceremony
<b>Friday 12th</b>		
<b>Azulejo National Museum</b>		
10h		Visit to MNaz
13h		