

## Scientific Programme

### Tuesday, October 15, 2019

08.00 - 09.00 Registration and check-in at "Museo Diocesano"

09.00 - 09.10 Opening Remarks

09.10 - 11.00 *S1: Methods and Instrumentation - Session Chair:*

9.10 - 9.40	<b>Rapid Scanning XRF of Cultural Materials at the Australian Synchrotron's XFM Beamline</b> Daryl Howard	INV1
9.40 - 10.00	<b>Depth-resolved MA-XRPD: possibilities and limitations</b> Frederik Vanmeert, Steven de Meyer, Ermanno Avranovich, Nouchka de Keyser, Annelies van Loon, Abbie Vandivere and Koen Janssens	O1
10.00 - 10.20	<b>Development of a new MA-XRF instrument integrating UV PhotoLuminescence and Reflectance spectrometry</b> Thomas Calligaro, Laurent Pichon, Brice Moignard, Raphaël Moreau and Didier Gourier	O2
10.20 - 10.40	<b>On the interaction of X-rays and samples by quantification of energy deposition</b> Timo Wolff, Roald Tagle, Falk Reinhardt and Ulrich Waldschläger	O3
10.40 - 11.00	<b>A new automated XRF background subtraction method for MA-XRF technique</b> Paula R. P. Allegro, David Ciro and Marcia De Almeida Rizzutto	O4

11.00 - 11.25 COFFE BREAK

**11.30 - 13.10 S2: Paintings - Session Chair:**

11.30 - 11.50	<b>New Light on Verrocchio's Paintings: Spectral Imaging</b> John Delaney, Kathryn Dooley, Gabrieli, Costanza Cucci and Marcello Picollo	05
11.50 - 12.10	<b>Tudor court portraiture before Holbein: Unprecedented insights achieved with MA-XRF scanning</b> Christine Slottved Kimbriel, Claudia Caliri, Giulia Privitera and Francesco Paolo Romano	06
12.10 - 12.30	<b>Sorting the Palettes of Rembrandt – Three New Approaches to Cluster MA-XRF Data</b> Matthias Alfeld, Joan Belder, Barend Thijsse, Joris Dik, Thomas Höllt, Anna Vilanova and Robert Erdmann	07
12.30 - 12.50	<b>Amedeo Modigliani's Woman in a yellow dress: non invasive analysis using macro X-ray fluorescence imaging</b> Marco Nervo, Claudia Caliri, Anna Piccirillo, Sara Abram, Melissa David, Daniele Demonte, Michela Cardinali, Laura Cantone and Francesco Paolo Romano	08
12.50 - 13.10	<b>The "Scream" by Edvard Munch (1910): non invasive integrated spectroscopic investigations of the painting materials</b> Laura Cartechini, Sandu, Francesca Rosi, Chiara Grazia, Letizia Monico, Aldo Romani, Renato Pereira de Freitas, Godzimirska, Chan, Landro, Tvei, Pettersen and Costanza Miliani	09

**13.10 - 14.25 LUNCH**

**14.30 - 16.00 S3: Paintings & Methods - Session Chair:**

14.30 - 15.00	<p><b>Imaging secondary reaction products at the surface of Vermeer's Girl with the Pearl Earring by means of macroscopic X-ray powder diffraction scanning</b></p> <p>Steven De Meyer, Frederik Vanmeert, Rani Vertongen, Annelies Van Loon, Victor Gonzalez, Abbie Vandivere, Geert van der Snickt and Koen Janssens</p>	INV2
15.00 - 15.20	<p><b>Advantages of MA-XRF scanning during conservation treatments of paintings</b></p> <p>Susan Smelt, Katrien Keune, Petria Noble and Gwen Tauber</p>	O10
15.20 - 15.40	<p><b>Identification and investigation of the fading of eosin lakes in oil paints: an analytical review</b></p> <p>Alba Alvarez Martin, Ivan Susakov, Sabine van Doorslaer, Stijn Legrand, Geert van der Snickt, Timothy P. Cleland, Asher Newsome and Koen Janssens</p>	O11
15.40 -16.00	<p><b>Picasso's Acrobat Family: an integrated non-invasive study of materials, techniques and state of preservation</b></p> <p>David Buti, Laura Cartechini, Francesca Rosi, Aldo Romani, Marco Raffaeli, Alice Dal Fovo, Aurélie Tournié, Anne Michelin, Christine Andraud, Eva Nygård and Mariateresa Pullano</p>	O12

**16.00 - 16.25 COFFE BREAK**

**16.30 - 18.10 S4: New objects - Session Chair:**

16.30 - 16.50	<p><b>MA-XRF imaging to feature Tibetan Thangka</b></p> <p>Jessica Brocchieri, Carlo Sabbarese, Marion Boyer and Laurence de Viguerie</p>	O13
16.50 - 17.10	<p><b>MA-XRF imaging of Bronze Age wall-painting pigments</b></p> <p>Andreas Karydas, Claudia Caliri, Vasiliki Kantarelou, Francesco Paolo Romano, Eleni Kokiasmenou and Hariclia Brekoulaki</p>	O14

17.10 - 17.30	<p><b>Neskhonsuennekhy's coffin lid. A study case by combining MA-XRF, multispectral imaging and micro-sampling</b></p> <p>Paola Buscaglia, Claudia Caliri, Tiziana Cavaleri, Enrico Ferraris, Marco Nervo and Francesco Paolo Romano</p>	O15
17.30 - 17.50	<p><b>The use of X-ray fluorescence imaging for the distinction of iron-gall ink inscriptions on artefacts from Stradivari's workshop</b></p> <p>Marie Radepont, Oulfa Belhadj, Hortense De la Codre, Jean-Philippe Echard, Stéphane Vaiedelich and Véronique Rouchon</p>	O16
17.50 - 18.10	<p><b>MA-XRF analysis of metal objects from the archaeological site of Ferento</b></p> <p>Giorgia Agresti, Giuseppe Bonifazi, Giuseppe Capobianco, Elisabetta De Minicis, Claudia Pelosi and Silvia Serranti</p>	O17

**18.10 - 19.10 POSTER SESSION**

## Scientific Programme

### Wednesday, October 15, 2019

8.30 - 10.20 *S5: Paintings - Session Chair:*

8.30 - 9.00	<b>'Operation Night Watch': Macro-X-ray Fluorescence Imaging of Rembrandt's Largest Painting</b> Annelies van Loon	INV3
9.00 - 9.20	<b>Caravaggio's painting technique and the contribution of Ma-XRF imaging. Some case-studies</b> Marco Cardinali et al.	O18
9.20 - 9.40	<b>Combining MA-XRF and OCT in the investigation of the dark background of Vermeer's Girl with a Pearl Earring</b> Joris Dik, Guusje Hartevelde, Tom Callewaert, Jeroen Kalkman, Abbie Vandivere and Annelies van Loon	O19
9.40 - 10.00	<b>Comparative scanning on two versions of Head of Medusa by P.P. Rubens</b> Nouchka De Keyser, Stijn Legrand, Geert Van der Snickt, Gerlinde Gruber, Petr Tomášek and Koen Janssens	O20
10.00 - 10.20	<b>Venus and Mars beneath Caravaggio's David with the Head of Goliath</b> Katharina Uhlir, Gudrun Swoboda, Elke Oberthaler, Ingrid Hopfner, Michael Eder, Stefan Weppelmann and Martina Griesser	O21

10.20 - 10.45 **COFFE BREAK**

**10.50 - 12.50 S6: Paintings - Session Chair:**

10.50 - 11.10	<p><b>Combining XRF and Vis-NIR Imaging Spectroscopic techniques: its potentials showcased in the analysis of Marco D'Oggiono panel paintings</b></p> <p>Marcello Picollo, Costanza Cucci, Andrea Casini, Lorenzo Stefani, Francesco Paolo Romano, Claudia Caliri, Monica Gulmini, Anna Piccirillo, Paola Buscaglia and Elena D'Elia</p>	O22
11.10 - 11.30	<p><b>A journey into Gauguin's Poèmes Barbares: using MA-XRF and Spectral Imaging instrumentation to map a hidden landscape</b></p> <p>Marc Walton, Katherine Eremin, Emeline Pouyet, Georgina Rayner, Kate Smith and Gianluca Pastorelli</p>	O23
11.30 - 11.50	<p><b>Rogier van der Weyden's Lamentation: combining MA-XRF and reflectance imaging spectroscopy</b></p> <p>Carol Pottasch, Annelies van Loon, John K. Delaney and Kathryn A. Dooley</p>	O24
11.50 - 12.10	<p><b>Modigliani's studio practice revealed by MA-XRF and non-invasive spectral imaging techniques</b></p> <p>Anaïs Genty-Vincent, Marie-Amélie Senot and Michel Menu</p>	O25
12.10 - 12.30	<p><b>Complementary use of MA-XRF micro-Raman and AFM for investigating Leonardo da Vinci</b></p> <p>Marina Bicchieri, Paola Biocca, Claudia Caliri and Francesco Paolo Romano</p>	O26
12.30 - 12.50	<p><b>Complementary Non-Invasive Imaging Techniques to Study the Painting Technique of Pieter de Hooch</b></p> <p>Anna Krekeler, Francesca Gabrieli, Victor Gonzalez, Anneliese Földes, John Delaney and Annelies van Loon</p>	O27

**12.50 - 14.05 LUNCH**

**14.10 - 16.00 S7: Methods & Instrumentations - Session Chair:**

14.10 - 14.40	<b>MA-XRF at the Northwestern University/Art Institute of Chicago Center for Scientific Studies in the Arts</b> Emeline Pouyet	INV4
14.40 - 15.00	<b>Machine Learning Analysis of a Painting using Macro-XRF Mapping, Hyperspectral Imaging and Macro-Raman Mapping</b> Luke Butler, Yu Li, Sotiria Kogou, Chi Shing Cheung and Haida Liang	O28
15.00 - 15.20	<b>Artifacts in X-ray spectra and how to deal with them</b> Piet Van Espen, Stijn Legrand, Ana Cabal and Koen Janssens	O29
15.20 - 15.40	<b>New Computational Methods for the Correction of 3D Effects in Laboratory-based Scanning XRF</b> Stephen Parsons, Seth Parker, Douglas MacLennan, Catherine Schmidt Patterson and Brent Seales	O30
15.40 - 16.00	<b>An automated combined analysis of MA-XRF and spectral imaging using machine learning methods</b> Sotiria Kogou, Lynn Lee, Golnaz Shahtahmassebi and Haida Liang	O31

**16.00 - 16.25 COFFE BREAK**

**16.30 - 18.10 S8 - Session Chair:**

16.30 - 16.50	<b>Non invasive Macro X-ray Fluorescence Scanning analysis of lacquered oriental and japanning artworks furniture from Piedmont Castles</b> Paola Croveri, Claudia Caliri, Gianna Ferraris, Valentina Gucciardi, Laura Guidorzi, Alessandro Lo Giudice, Paolo Luciani,	O32
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	Anna Mazzinghi, Marco Nervo, Alessandro Re, Francesco Paolo Romano, Chiara Ruberto, Francesco Tacetti and Silvia Tagliante	
16.50 - 17.10	<b>The combined use of MA-XRF scanning and MRS point analyses to reveal different hands in the 15th century Breviary of Geraardsbergen</b> Marina Van Bos, Lieve Watteeuw and Dominique Vanwijnsberghe	O33
17.10 - 17.30	<b>The Averbode's Evangeliary : MA-XRF and Hyperspectral imaging</b> David Strivay, Aleuna Macarenko, Francois-Philippe Hocquet and Cécile Oger	O34
17.30 -17.50	<b>The importance of being little: MA-XRF on manuscripts on a Venetian island</b> Anna Mazzinghi, Chiara Ruberto, Lisa Castelli, Paola Ricciardi, Caroline Czelusniak, Lorenzo Giuntini, Pier Andrea Mandò, Lara Palla and Francesco Taccetti	O35
17.50 - 18.10	<b>Analysis of MAXRF data with special consideration of overlapping peaks observed in the analysis of a group of paintings from the Princes Czartoryski collection</b> Paulina Krupska, Julio M. del Hoyo-Meléndez, Michał Obarzanowski and Katarzyna Novlajković	O36

**18.10 - 19.30 POSTER SESSION + FINAL COCKTAIL**