

# DETAILED PLANNING

## AGENDA DÉTAILLÉ

From Tuesday 09 September 2014 at 18:30 to Friday 12 September 2014 at 19:00 (CET)

### ► 9 Sept. 2014

18:30 > 20:30

#### Welcome reception and preliminary registration

Centre de recherche et de restauration des musées de France  
(14, quai François Mitterrand, palais du Louvre, Porte des Lions, 75001 Paris)

### ► 10 Sept. 2014 | Musée du Louvre (Auditorium)

08:45

Recommended arrival time at the Richelieu 'group entrance'

09:00

Museum Opens (Access through the Richelieu 'group entrance')

09:00 > 09:30

Registration

09:30 > 10:00

Official Opening

#### ► Chair: Barbara Berrie

#### CONSERVATION AND ALTERATION I SESSION

10:00 > 10:30

O-01

#### Investigation of historical paintings by X-ray techniques

Invited Speaker: Matthias Alfeld, Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany

10:30 > 10:50

O-02

#### Synchrotron studies of the migration of lead soaps in old master paintings and model systems

Speaker: Annelies van Loon, Van't Hoff Institute for Molecular Sciences / Paint Studies, University of Amsterdam, Amsterdam, The Netherlands

10:50 > 11:10

O-03

#### Neutron radiography for the quantitative analysis of water uptake and swelling of painting canvases and preparation layers

Speaker: Roel Hendrickx, Swiss Institute for Art Research, Kunsttechnologie Department, Zürich, Switzerland

11:10 > 11:30

O-04

#### Non-invasive in situ spectroscopic techniques and synchrotron radiation-based X-ray methods to examine the state of conservation of chrome yellow pigments in Van Gogh's Sunflowers

Speaker: Letizia Monico, CNR-ISTM/Centre Smaart and Antwerp University, Chemistry Department, Perugia, Italy

11:30 > 11:50

O-05

#### SR-XRD analysis of bole layers in popular and erudite Portuguese gilded baroque retables

Speaker: Carolina Barata, Universidade de Aveiro, Geosciences Department, Geobiotec Research Unit, Aveiro, Portugal

12:00 > 13:40

Lunch (On Your Own)

#### ► Chair: Christiane Alba-Simionesco

#### NEW METHODS AND ANALYTICAL PROCESSES I SESSION

13:40 > 14:00

O-06

#### Detection of platinum in gold with D<sup>2</sup>XRF

Speaker: Martin Radtke, BAM Federal Institute For Materials Research and Testing, Analytical Chemistry, Berlin, Germany

14:00 > 14:20

O-07

#### Spectroscopic pulsed neutron imaging and its application to metal cultural heritage

Speaker: Yoshinori Shiota, Nagoya University, Graduate School of Engineering, Nagoya, Japan

14:20 > 14:40

O-08

#### A scanning nano-XRF study of a 19<sup>th</sup> century daguerreotype photograph

Speaker: Edward Vicenzi, Smithsonian Institution, Museum Conservation Institute, Suitland, USA

14:40 > 15:00

O-09

#### In-situ time-lapse X-ray diffraction of silver corrosion

Speaker: Rosie Grayburn, Universiteit Gent, Department of Analytical Chemistry, Gent, Belgium

15:00 > 15:30

Break

▶ **10 Sept. 2014** | Musée du Louvre (Auditorium)

▶ SUITE

▶ **Chair: Solenn Reguer****PROCESSES AND CHAÎNES OPÉRATOIRES I SESSION**

<b>15:30 &gt; 15:50</b>	<b>O-10</b>	<b>Non-invasive characterization of two Japanese swords from the Wallace collection</b> <i>Speaker: Elisa Barzagli, ISC-CNR and University of Firenze, Sesto Fiorentino (Firenze), Italy</i>
<b>15:50 &gt; 16:10</b>	<b>O-11</b>	<b>Reducing manufacturing conditions of medieval blue glass revealed by <math>\mu</math>-XANES</b> <i>Speaker: Myrtille Hunault, Institut de Minéralogie, de Physique des Matériaux et de Cosmochimie, CNRS, UMPIC, IRD, MNHN, Paris, France</i>
<b>16:10 &gt; 16:30</b>	<b>O-12</b>	<b>Pablo Picasso's The Blue Room (1901): an intensive technical investigation of a blue period painting</b> <i>Speaker: Jennifer Mass, Winterthur Museum, Scientific Research and Analysis Laboratory, Winterthur, USA</i>
<b>16:30 &gt; 17:00</b>	<b>Break</b>	
	NB: Last admission to Musée du Louvre at 19:00	
<b>17:00 &gt; 20:00</b>	<b>POSTER SESSION (salle des 80)</b> in parallel to <b>PUBLIC SESSION</b>	
	<b>O-13</b>	<b>X-ray fluorescence imaging: from Archimedes to Archaeopteryx and beyond</b> <i>Invited Speaker: Uwe Bergmann, SLAC National Accelerator Laboratory, California, USA</i>
	<b>O-14</b>	<b>What have we learned from Neutron Transmission Radiography and Time-of-Flight Neutron Diffraction on Renaissance bronzes?</b> <i>Invited Speaker: Robert van Langh, Rijksmuseum Amsterdam, Amsterdam, The Netherlands</i>
	<b>O-15</b>	<b>How to use the hierarchical heterogeneous structure of ancient ceramics to trace their firing protocol</b> <i>Invited Speaker: Philippe Sciau, CNRS, CEMES, Toulouse, France</i>
<b>20:00</b>	<b>Adjourn</b>	
<b>21:30</b>	<b>Museum Closes</b> (Extended Hours for Wednesday)	

▶ **11 Sept. 2014** | Musée du Louvre (Auditorium)**08:45** Recommended arrival time at the Richelieu 'group entrance'**09:00** Museum Opens (Access through the Richelieu 'group entrance')▶ **Chair: Douglas Galante**

<b>09:30 &gt; 10:00</b>	<b>O-16</b>	<b>Role of S K-edge X-ray absorption spectroscopy in conservation efforts of the Mary Rose</b> <i>Invited Speaker: Ritimukta Sarangi, SLAC National Accelerator Laboratory, California, USA</i>
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**NEW METHODS AND ANALYTICAL PROCESSES II SESSION**

<b>10:00 &gt; 10:20</b>	<b>O-17</b>	<b>Combined structural analysis of ancient ill-ordered carbon-based cosmetics and inks</b> <i>Speaker: Pauline Martinetto, CNRS-UJF, Institut Néel Département MCMF, Grenoble, France</i>
<b>10:20 &gt; 10:40</b>	<b>O-18</b>	<b>X-ray powder diffraction mapping and tomography for analysis of (degraded) paint layer systems</b> <i>Speaker: Frederik Vanmeert, University of Antwerp, Chemistry - Axes Research Group, Antwerp, Belgium</i>
<b>10:40 &gt; 11:00</b>	<b>O-19</b>	<b>Virtual X-ray reading (VXR) of ancient administrative handwritten documents</b> <i>Speaker: Fauzia Albertin, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland</i>

**11:00 > 11:30****Break**▶ **Chair: Marine Cotte****CONSERVATION AND ALTERATION II SESSION**

<b>11:30 &gt; 11:50</b>	<b>O-20</b>	<b>Degradation mechanisms of reinforcement iron rebars in monuments: influence of porosity on the formation of corrosion products studied by X-ray tomography</b> <i>Speaker: Mathieu Jacot-Guillarmod, Bern University of Applied Sciences, Bern, Switzerland</i>
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► **11 Sept. 2014** | Musée du Louvre (Auditorium)

► SUITE

**11:50 > 12:10**    **O-21**    **De Colorando Auro: revealing different surface treatments of the silver gilded statuettes of a 13<sup>th</sup> century shrine using XANES**  
*Speaker:* **Amandine Crabbé**, Vrije Universiteit Brussel, Brussels, Belgium

**12:10 > 12:30**    **O-22**    **Degradation mechanisms of reinforced concrete monuments study of initial corrosion processes in chlorinated environments**  
*Speaker:* **Solenn Reguer**, Synchrotron SOLEIL, Gif-sur-Yvette, France

**12:30 > 14:10**    **Lunch (On Your Own)**

**13:00 > 14:00**    **Book signing session in the Louvre Bookshop**

► **Chair: Uwe Bergmann**

**14:10 > 14:40**    **O-23**    **Synchrotron radiation for ancient and historical materials**  
*Invited Speaker:* **Marco Stampanoni**, Paul Scherrer Institut - ETH Zürich, Swiss Light Source, Institute for Biomedical Engineering, Zürich, Switzerland

**PALAEONTOLOGY AND PALAEO-ENVIRONMENTS I SESSION**

**14:40 > 15:00**    **O-24**    **Conservation of lignitized pyritic woods in the light of synchrotron measurements**  
*Speaker:* **Giliane Odin**, Muséum National d'Histoire Naturelle, Paris, France

**15:00 > 15:20**    **O-25**    **When photons meet fossils: the chemistry of ancient life**  
*Speaker:* **Nicholas Edwards**, University of Manchester, School of Earth, Atmospheric and Environmental Sciences, Manchester, UK

**15:20 > 15:40**    **O-26**    **Fossilization and diagenesis in the Djebel Oum Tkout Lagerstätte (upper Cretaceous, Morocco): insights from rare earth elements microscale spectroscopy**  
*Speaker:* **Pierre Gueriau**, Muséum National d'Histoire Naturelle, CR2P, Paris, France

**15:40 > 16:00**    **O-27**    **Remnants of life: integrated geochemical methods for the analysis of exceptionally preserved specimens**  
*Speaker:* **Roy Wogelius**, University of Manchester, School of Earth, Atmospheric and Environmental Sciences, Manchester, UK

**16:00 > 16:30**    **Break**

► **Chair: Pierre Gueriau**

**PALAEONTOLOGY AND PALAEO-ENVIRONMENTS II SESSION**

**16:30 > 16:50**    **O-28**    **Confocal X-ray fluorescence and the biogenic uptake of strontium in colonial Antigua**  
*Speaker:* **Treana Swanston**, University of Saskatchewan, Anatomy and Cell Biology, Saskatoon, Canada

**16:50 > 17:10**    **O-29**    **Pigment preservation in Egyptian mummified tissues**  
*Speaker:* **Philip Manning**, University of Manchester, School of Earth, Atmospheric and Environmental Sciences, Manchester, UK

**17:10 > 17:40**    **O-30**    **Rock art pigments: alteration and weathering processes in caves and open sites**  
*Invited Speaker:* **Emilie Chalmin**, Université de Savoie, CISM-EDYTEM, Le Bourget-du-Lac, France

**17:40**    **Adjourn**

**18:00**    **Museum Closes**

**20:30**    **Conference dinner at the Musée d'Orsay**  
(entrance includes access to museum before the dinner)

► **12 Sept. 2014** | Musée du Louvre (Auditorium)

**08:45**    **Recommended arrival time at the Richelieu 'group entrance'**

**09:00**    **Museum Opens**

► **Chair: Laszlo Rosta**

**09:30 > 10:00**    **O-31**    **Materials, techniques and conservation of 15<sup>th</sup> to 19<sup>th</sup> centuries stain glass "grisailles"**  
*Invited Speaker:* **Trinitat Pradell**, Universitat Politècnica de Catalunya, Física, Castelldefels, Spain

► **12 Sept. 2014** | Musée du Louvre (Auditorium)

► SUITE

**PROCESSES AND CHAÎNES OPÉRATOIRES II SESSION**

**10:00 > 10:20**    **O-32**    **Deciphering ancient ceramic firing conditions through replication**  
 Speaker: **Ilaria Cianchetta**, Getty Conservation Institute, Los Angeles, USA

► **Chair: Magnus Sandström****CONSERVATION AND ALTERATION III SESSION**

**10:20 > 10:40**    **O-33**    **Difference between sub-microscopic and macroscopic preservation states of marine archaeological elephant tusks revealed by micro-SAXS/WAXS analysis**  
 Speaker: **Marie Albéric**, LAMS, CNRS, UPMC, Ivry-sur-Seine, France

**10:40 > 11:00**    **O-34**    **The use of synchrotron radiation for the analysis of the distribution of additives in ABS design objects and model samples**  
 Speaker: **Daniela Saviello**, Politecnico di Milano, Dipartimento di Chimica Materiali e Ingegneria Chimica, Milano, Italy

**11:00 > 11:30****Break**► **Chair: Romain Thomas**

**11:30 > 11:50**    **O-35**    **X-ray spectroscopic characterization of sulfur compounds in marine archaeological wood**  
 Speaker: **Magnus Sandström**, Stockholm University, Department of Materials and Environmental Chemistry, Stockholm, Sweden

**11:50 > 12:10**    **O-36**    **Synchrotron X-ray scattering of ethylene vinyl acetate copolymer based art conservation adhesives: elucidation of morphological differences**  
 Speaker: **Chris McGlinchey**, The Museum of Modern Art, New York, USA

**12:10 > 12:30**    **O-37**    **Optimization of an ammonium oxalate treatment for the protection of monumental limestone and marble surfaces**  
 Speaker: **Domagoj Mudronja**, Croatian Conservation Institute, Natural Science Laboratory, Zagreb, Croatia

**12:30 > 13:40****Lunch (On Your Own)**► **Chair: Katrien Keune**

**14:10 > 14:40**    **O-38**    **Learning from the past: the formation process of rare  $\epsilon$ -Fe<sub>2</sub>O<sub>3</sub> in the ancient black-glazed Jian (Tenmoku) wares**  
 Invited Speaker: **Catherine Dejoie**, ETH Zurich, Laboratory of Crystallography, Zürich, Switzerland

**NEW METHODS AND ANALYTICAL PROCESSES III SESSION**

**14:40 > 15:00**    **O-39**    **Synchrotron laminography for micrometer-scale three-dimensional region-of-interest imaging of flat artwork**  
 Speaker: **Lukas Helfen**, Karlsruhe Institute of Technology, Institute for Photon Science and Synchrotron Radiation, Karlsruhe, Germany

**15:00 > 15:20**    **O-40**    **Combined synchrotron-based micro-spectroscopic analyses of painting thin-sections**  
 Speaker: **Émeline Pouyet**, ESRF, Grenoble, France

**15:20 > 15:40**    **O-41**    **New developments and opportunities in synchrotron ultraviolet luminescence microscopy**  
 Speaker: **Matthieu Réfrégiers**, Synchrotron SOLEIL, Gif-sur-Yvette, France

**ROUND TABLE, CONFERENCE CLOSURE AND STUDY VISITS**

**15:40 > 16:40**    **Round Table: Global Methodology**  
 Moderator: **Robert van Langh**

**16:40 > 17:00**    **Conference prizes and Closure**

**17:00 > 19:00**    **Study visits at the musée du Louvre**

**19:00**    **Adjourn**

**21:30**    **Museum Closes (Extended Hours for Friday)**