

Dr. Emeline POUYET

Email: emeline.pouyet@upmc.fr

Née le 24/08/1988 - Nationalité: Française

Web of Science ResearcherID : AAK-5772-2021

PROFIL

EXPERTISE ANALYTIQUE

Développement au sein d'institutions culturelles, laboratoires de recherche et lignes de lumière synchrotron d'une expertise analytique variée basée sur l'utilisation de :

- techniques d'imagerie des rayons X portable, de laboratoire et de synchrotron : macro / micro Fluorescence (MA / μ -XRF) et Diffraction des Rayons X (DRX), spectroscopie d'absorption des rayons X (XAS) par micro balayage et imagerie plein champ
- techniques d'imagerie en réflectance dans le domaine de la lumière UV, visible, proche infrarouge (UV-VIS-NIR RIS)
- Macro / micro-spectroscopie InfraRouge à Transformée de Fourier moyen (MA / μ -IRTF)
- Microscopie Electronique à Balayage (MEB) couplée à différents systèmes de spectroscopie (EDS, WDS)
- techniques innovantes de préparation d'échantillons pour une analyse multimodale de matériaux complexes

EXPERTISE DANS LE DOMAINE DU PATRIMOINE

Connaissances robustes de l'histoire des techniques (en particulier pour les matériaux peints, verres, céramiques et métaux) acquises à travers de nombreuses collaborations interdisciplinaires (historiens de l'art, conservateurs, restaurateurs, archéologues).

FORMATION

Doctorat spécialité Physique des matériaux (Université Grenoble Alpes)

2011 - 2014

ID21, X-ray imaging group, European Synchrotron Radiation Facility, ESRF, Grenoble, France - *Directeurs M. Cotte and F. Sette*
« Nouvelles méthodes de préparation et d'analyse par combinaison de techniques synchrotron hyperspectrales (μ -IRTF, μ -XRF, μ -DRX et μ -XAS) pour l'étude de micro-fragments de peinture et autres matériaux du patrimoine culturel. »

Master Recherche Matériaux du patrimoine culturel (Mention Bien)

2009 - 2011

Université Michel Montaigne, Bordeaux III, France

Licence Sciences de l'Environnement et des Planètes (STEP)

2006 - 2009

Université Denis Diderot, Paris VII, France

EXPERIENCES PROFESSIONNELLES

Chargée de recherche CNRS, LAMS (UMR 8220), Sorbonne Université, Paris, France

Oct. 2020 – actuellement

Développement d'une approche analytique multi-échelle pour l'étude des matériaux du patrimoine afin de comprendre les mécanismes de dégradation des pigments inorganiques.

Chercheur Associé, Center for Scientific Studies in the Arts, Northwestern University, Evanston, IL, U.S.A.

Août. 2018 – Déc. 2019

Coordonner le programme de projet de recherche externe du Centre en assurant la direction du soutien scientifique à l'investigation des collections d'art et au développement de nouvelles technologies pour étudier et conserver les matériaux artistiques.

Etudiant boursier post-doctoral, Center for Scientific Studies in the Arts, Northwestern University, Evanston, IL, U.S.A.

Jan. 2016- Août. 2018

Développement instrumentaux, et utilisation d'approches de traitement du signal innovantes inspirés par l'étude de matériaux du patrimoine d'intérêt pour les institutions culturelles internationales collaborant étroitement avec le laboratoire d'accueil.

Chargé d'étude, ARC-Nucléart,

Sept. 2014 - Déc. 2015

Commissariat à l'Energie Atomique et aux Energies Alternatives, CEA, Grenoble, France

Etude de la méthodologie de production de brocarts appliqués en Savoie (1450-1530 ap. JC). Caractérisation *in-situ* par DRX et XRF

REFERENCES BIBLIOGRAPHIQUES

PUBLICATIONS

Publications dans des revues internationales avec comité de lecture

- (28) P. Martinetto, N. Blanc, P. Bordet, S. Champdavoine, F. Fabre, T. Guiblain, J.-L. Hodeau, F. Lelong, O. Leynaud, A. Prat, E. Pouyet, E. Uher, Ph. Walter, **Non-invasive X-ray investigations of medieval sculptures: New insights on “applied tin-relief brocade” technique**, *Journal of Cultural Heritage*, Volume 47, 2021.
- (27) L. Cooper, S. Costello, K. Eremin, M. Moy, K. King, M. Walton, E. Pouyet, A. Shortland, L. Dussubieux, **Numbered Jun Ware – a technical study**. *Journal of the American Institute for Conservation* (pp. 1-14), 2020.
- (26) E. Pouyet, N. Barbi, H. Chopp, O. Healy, A. Katsaggelos, S. Moak, R. Mott, M. Vermeulen, & M. Walton, **Development of a highly mobile and versatile large MA-XRF scanner for in-situ analyses of painted work of arts**, *X-Ray Spectrometry*, 2020.
- (25) E. Pouyet, J. Delaney, K. Brummel, S. Webster-Cook, C. Dejoie, G. Pastorelli, M. Walton, **New insights into Pablo Picasso’s La Miséreuse accroupie (Barcelona, 1902) using X-ray fluorescence imaging and reflectance spectroscopies combined with micro-analyses of samples**, *SN Applied Sciences*, 2020.
- (24) E. Pouyet, M. Ganio, A. Motlani, A. Saboo, F. Casadio, M. Walton, **Casting Light on 20th-Century Parisian Artistic Bronze: Insights from Compositional Studies of Sculptures Using Hand-Held X-ray Fluorescence Spectroscopy**, *Heritage*, 2(1), 2019.
- (23) N. Rohani, E. Pouyet, M. Walton, O. Cossairt, & A.K. Katsaggelos, **Pigment Unmixing of Hyperspectral Images of Paintings Using Deep Neural Networks**. *Speech and Signal Processing (ICASSP)* (pp. 3217-3221), IEEE, 2019.
- (22) Q. Dai, H. Chopp, E. Pouyet, O. Cossairt, M. Walton, A. Katsaggelos, **Adaptive Image Sampling using Deep Learning and its Application on X-Ray Fluorescence Image Reconstruction**, *IEEE Transactions on Multimedia*, 2019.
- (21) N. Rohani, E. Pouyet, M. Walton, O. Cossairt, A. K. Katsaggelos, **Nonlinear unmixing of hyperspectral datasets for the study of painted works of art**, *Angewandte Chemie*, 2018.
- (20) E. Pouyet, N. Rohani, A. K. Katsaggelos, O. Cossairt, M. Walton, **Innovative data reduction and visualization strategy for hyperspectral imaging datasets using t-SNE approach**, *Pure and Applied Chemistry*, 2018.
- (19) M. Ganio, E. Pouyet, S. Webb, C.M.S. Patterson, M.S. Walton, **From lapis lazuli to ultramarine blue: investigating Cennino Cennini’s recipe using sulfur K-edge XANES**, *Pure and Applied Chemistry*, 2018.
- (18) E. Pouyet, S. Devine, T. Grafakos, R. Kieckhefer, J. Salvant, L. Smieska, A. Wool, A. Katsaggelos, O. Cossairt, M. Walton, **Revealing the biography of a hidden medieval manuscript using synchrotron and conventional imaging techniques**, *Analytica Chimica Acta*, 2017.
- (17) Q. Dai, E. Pouyet, O. Cossairt, M. Walton, A.K. Katsaggelos, **Spatial-Spectral Representation for X-Ray Fluorescence Image Super-Resolution**. *IEEE Transactions on Computational Imaging*, 2017.
- (16) Q. Dai, E. Pouyet, O. Cossairt, M. Walton, F. Casadio, A.K. Katsaggelos. **X-Ray fluorescence image super-resolution using dictionary learning**, In *Image, Video, and Multidimensional Signal Processing Workshop (IVMSP)*, 2016 IEEE 12th, 2016.
- (15) M. Cotte, E. Pouyet, M. Salomé, C. Rivard, W. De Nolf, H. Castillo-Michel, T. Fabris, L. Monico, K. Janssens, T. Wang, P. Sciau, L. Verger, L. Cormier, O. Dargaud, E. Brun, D. Bugnazet, B. Fayard, B. Hesse, A. Elena Pradas del Real, G. Veronesi, J. Langlois, N. Balcar, Y. Vandenberghe, V. Armando Solé, J. Kieffer, R. Barrett, C. Cohen, C. Cornu, R. Baker, E. Gagliardini, E. Papillon, J. Susini, **The ID21 X-ray and infrared microscopy beamline at the ESRF: status and recent applications to artistic materials**, *Journal of Analytical Atomic Spectrometry*, 2017.
- (14) C. Larue, H. Castillo-Michel, R. Stein, B. Fayard, E. Pouyet, J. Villanova, A. Pradas del Real, V. Magnin, N. Trcera, S. Legros, S. Sorieul, Géraldine Sarret, **Innovative combination of spectroscopic techniques to reveal nanoparticle fate in a crop plant**, submitted, *Spectrochimica Acta Part B: Atomic Spectroscopy*, 2016.
- (13) T. Wang, T. Q. Zhu, Z. Y. Feng, B. Fayard, E. Pouyet, M. Cotte, W. de Nolf, Ph. Sciau, **Synchrotron radiation-based multi-analytical approach for studying underglaze color: The microstructure of Chinese Qinghua blue decors (Ming dynasty)**, *Analytica Chimica Acta*, 2016.
- (12) A. Lluveras-Tenorio, I. Bonaduce, F. Sabatini, I. Degano, C. Blaensdorf, E. Pouyet, M. Cotte, M. Linyan, M. P. Colombini, **The organic materials used in the Five Northern Provinces’ Assembly Hall mural paintings (Ziyang, China): disclosing the painting technique of the Qing Dynasty painters in civil buildings**, *Applied Physics A*, 2015.
- (11) E. Pouyet, M. Cotte, B. Fayard, M. Salomé, F. Meirer, A. Mehta, E. S. Uffelman, A. Hull, F. Vanmeert, J. Kieffer, M. Burghammer, K. Janssens, F. Sette and J. Mass, **2D X-ray and FTIR micro-analysis of the degradation of cadmium yellow pigment in paintings of Henri Matisse**, *Applied Physics A*, 1-14, 2015.
- (10) E. Pouyet, B. Fayard, M. Salomé, Y. Taniguchi, F. Sette and M. Cotte, **Thin-sections of painting fragments: opportunities for combined synchrotron-based micro-spectroscopic techniques**, *Heritage Science*, vol. 3, no 1, 3, 2015.
- (9) K. Keune, J. Mass, F. Meirer, C. Pottash, A. van Loon, A. Hull, J. Church, E. Pouyet, M. Cotte and A. Mehta, **Tracking the transformation and transport of arsenic sulfide pigments in paints: synchrotron-based X-ray micro-analyses**, *Journal of Analytical Atomic Spectrometry*, 30(3), 813-827, 2015.

(8) I. Cianchetta, K. Trentelman, J. Maish, D. Saunders, B. Foran, M. Walton, Ph. Sciau, T. Wang, E. Pouyet, M. Cotte, F. Meirer, Y. Liu, P. Pianetta and A. Mehta, **Evidence for an unorthodox firing sequence employed by the Berlin painter: deciphering ancient ceramic firing conditions through High-Resolution material characterization and replication**, *Journal of Analytical Atomic Spectrometry*, 2015.

(7) E. Pouyet, M. Cotte, A. Lluveras, A. Nevin, D. Saviello and F. Sette, **Preparation of thin-sections of painting fragments: classical and innovative strategies**, *Analytica Chimica Acta*, 822, 51-59, 2014.

(6) P. Paleo, E. Pouyet and J. Kieffer, **An implementation of SIFT in OpenCL**, *Journal of synchrotron radiation*, 21(2), 0-0, 2014.

(5) D. Saviello, E. Pouyet, M. Cotte, L. Toniolo, A. Nevin, **Synchrotron FTIR microspectroscopy for the mapping of photo-oxidation and additives in ABS in model samples and historical object**, *Analytica Chimica Acta*, 843, 59-72, 2014.

(4) B. Fayard, E. Pouyet, G. Berruyer, D. Bugnazet, C. Cornu, M. Cotte, V. De Andrade, F. Di Chiaro, O. Hignette, J. Kieffer, T. Martin, E. Papillon, M. Salomé, A. V. Solé, **The new ID21 XANES full-field end-station at ESRF**, *Journal of Physics: Conference Series*, 251, 2013.

(3) M. Salomé, M. Cotte, R. Baker, R. Barrett, N. Benseny-Cases, G. Berruyer, D. Bugnazet, H. Castillo-Michel, C. Cornu, B. Fayard, E. Gagliardini, R. Hino, J. Morse, E. Papillon, E. Pouyet, C. Rivard, V. A. Solé, J. Susini and G. Veronesi, **The ID21 Scanning X-ray Microscope at ESRF**, *Journal of Physics: Conference Series*, 425, 182004, 2013.

(2) F. Meirer, Y. Liu, E. Pouyet, B. Fayard, M. Cotte, C. Sanche, A. Mehta and P. Sciau, **Full-field XANES analysis of Roman ceramics to estimate firing conditions—A novel probe to study hierarchical heterogeneous materials**, *Journal of Analytical Atomic Spectrometry*, 28, 1870-1883, 2013.

(1) M. Cotte, E. Pouyet, M. Radepont, J. Susini, **Application des méthodes de spectroscopie d'absorption X pour l'analyse des matériaux anciens et artistiques**, *Techniques de l'ingénieur*, 2012.

Publications sans comité de lecture

(8) Lelong F., Pouyet E., Champdavoine S., Guiblain T., Martinetto P., Cersoy S., Walter P., Rousselière H., Cotte M., Lefèvre M., Terpent C., **Exemple de brocarts appliqués dans la sculpture savoyarde : vers une caractérisation interdisciplinaire**, CEROArt (special issue for the symposium "Textile imitation in painting by the end of the Middle Ages. Applied brocade example: the challenge of a multidisciplinary approach"), 2021.

(7) E. Pouyet and M. Ganio, **Recent applications of synchrotron radiation for the study of historical paintings**, *APS DPB Newsletter*, 2017.

(6) E. Pouyet, V. Rose, C. Soriano, & M.S. Walton, **Synchrotron Radiation and Neutrons in Art and Archaeology (SR2A) Conference 2016**, *Synchrotron Radiation News*, 2017.

(5) J. Mass, E. Pouyet, M. Cotte, F. Meirer, A. Mehta, E. Uffelman, U. Plahter, I. Grimstad, B. Buckley, A. Hull, J. Church, R. Opila, **Cadmium Yellow Degradation Mechanisms in Henri Matisse's Le Bonheur de vivre (1905-1906) Compared to the Munch Museum's The Scream (c. 1910) Part 1: Chemical Speciation as a Function of Depth**, "Public Paintings by Edvard Munch and His Contemporaries, Change and Conservation Challenges, Munch 150 Conference Proceedings (Archetype Press, 2015), pp. 294-307.

(4) E. Pouyet, M. Cotte, **Combined synchrotron-based X-Ray and FTIR micro-spectroscopies for studying Cultural Heritage artefacts**, *ALMA conference proceeding*, 2014.

(3) E. Pouyet, M. Cotte, A. Nevin, D. Saviello, **Insight into artistic materials: the importance of an appropriate sample preparation exemplified by the micro-FTIR study of the polymer degradation in design objects**. *ESRF Highlight*, 2014.

(2) I. Commandré, F. Martin, P. Bascou, B. Gratuze, E. Pouyet, A. Riols, **Entre tradition et modernité : l'atelier verrier des Salines au coeur des hautes Corbières (Aude) fin XVIIe- début XVIIIe s.**, *Bulletin AFAV*, 2013.

(1) M. Cotte, M. Radepont, E. Pouyet, M. Salomé, J. Susini., **Synchrotron based X-Ray and FTIR microspectroscopy for the Cultural Heritage at the ID21 beamline, ESRF**, *IAEA technical report*, 2011.

COMMUNICATIONS

Communications orales invitées

(4) **MA-XRF scanning at the Northwestern University / Art Institute of Chicago Center for Scientific Studies in the Arts**, E. Pouyet, MA-XRF in Conservation, Art and Archaeology, Catania, IT, 15-16 October 2019.

(3) **Innovative strategies for the use of in-situ and SR-based X-Ray techniques to reveal artistic technology and relight history**, E. Pouyet, H. Chopp, O. Cossairt, Q. Dai, A. Katsaggelos, M. Walton, IXCOM-25, Lombard, USA, 5-9 August 2019.

(2) **Artistic materials watched under synchrotron micro-beam**, E. Pouyet, M. Cotte, ALMA, Prague, Czech Republic, 20-21 November 2014.

(1) **Cultural Heritage applications at the European Synchrotron Radiation Facility**, E. Pouyet, M. Cotte, B. Fayard, WIRMS, Lorne, Australia, 10-14 November 2013.

Communications orales

- (28) **A journey into Gauguin's Poèmes Barbares: using MA-XRF and Spectral Imaging instrumentation to map a hidden landscape**, *M. Walton*, K. Eremin, E. Pouyet, G. Rayner, K. Smith and G. Pastorelli, MA-XRF in Conservation, Art and Archaeology, Catania, IT, 2019.
- (27) **Innovative solutions for data analysis of hyperspectral datacube acquired on historical painted objects**, *E. Pouyet*, N. Rohani, A. K. Katsaggelos, O. Cossairt, M. Walton, Technart, Bruges (Belgium), 2019.
- (26) **Accounting for appearance: Characterizing the surfaces of works of art to better understand art historical, archaeological and conservation problems**, *M. Walton* and E. Pouyet, Technart, Bruges (Belgium), 2019.
- (25) **New insights into Pablo Picasso's Blue Period paintings using in-situ infrared reflectance and x-ray fluorescence imaging spectroscopy combined with synchrotron-based x-ray micro-analyses of samples**, *E. Pouyet*, K. Brummel, S. Webster-Cook, J. Delaney, C. Dejoie, M. Walton, Picasso Symposium, Barcelona (Spain), 2018
- (24) **Innovative solutions for data analysis of hyperspectral datacube acquired on historical painted objects**, *E. Pouyet*, N. Rohani, A. K. Katsaggelos, O. Cossairt, M. Walton, IASIM, Seattle (USA), 2018
- (23) **Characterizing radiation damage effects on ultramarine pigment at the S K-edge using synchrotron macro/ μ X-Ray Absorption Near-Edge Spectroscopy (XANES)**, *E. Pouyet*, M. Ganio, C. Schmidt Patterson, S. Webb, M. Walton, IAEA, Amsterdam (Netherlands), 2017
- (22) **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, Technart, Bilbao (Spain), 2017
- (21) **Jun Ware – A Technical Study**, *L. Cooper*, K. Eremin, M. Walton, E. Pouyet, A. Shortland and L. Dussubieux, Technart, Bilbao (Spain), 2017
- (20) **Materials, Makers and Multiples: In situ elemental study of Picasso's Bronze Sculptures from the Musée National Picasso**, *F. Casadio*, E. Pouyet, M. Walton, Picasso Sculptures symposium, Paris (France), 2016
- (19) **Object Biography Down to the Atomic Scale**, *M. Ganio*, E. Pouyet, D. Isheim, M. Walton, Gordon, Sunday River Newry, ME (USA), 2016
- (18) **The combined use of in-situ and SR-based techniques for revealing artistic technology and relighting history - NU-ACCESS case studies**, *E. Pouyet*, J. Salvant, M. Ganio, L. Smieska, A. Woll, A. Katsaggelos, O. Cossairt, M. Walton, SR2A, Chicago (USA), 2016
- (17) **From Lapis Lazuli to Ultramarine Blue: investigating Cennino Cennini's recipe using Sulfur K-Edge XANES**, *M. Ganio*, E. Pouyet, S. Webb, C. Schmidt Patterson, M. Walton, SR2A, Chicago (USA), 2016
- (16) **Evidence for a Buried Underslip on a Painted Athenian Ceramic from 5th Century BCE**, *A. Mehta*, T. Wang, J. Villanova, P. Sciau, C. Pantigny, E. Pouyet, SR2A, Chicago (USA), 2016
- (15) **Characterization of applied brocades from Savoie duchy, France, by means of combined micro-analytical techniques**, *E. Pouyet*, *T. Guiblain*, S. Cersoy, S. Champdavoine, M. Cotte, F. Lelong, P. Martinetto, P. Walter, i) TECHNART, Catania, Italy, and ii) GMPCA, Besançon (France), 2015
- (14) **Synchrotron-based micro-analytical techniques for the studies of paintings**, *E. Pouyet*, M. Cotte, 4th Course of the International School of structural and molecular archaeology « Hubert Curien », Erice (Italy), 2015
- (13) **Synchrotron-based micro-analytical techniques in the studies of art and historical artifacts**, *M. Cotte*, E. Pouyet, K. Janssens, AIC-SILS, 2014
- (12) **Combined synchrotron-based micro-spectroscopic analyses of painting thin-sections**, *E. Pouyet*, M. Cotte, B. Fayard, A. Lluveras-Tenorio, J. Mass, D. Saviello, A. Nevin, P. Sciau, SR2A, Paris (France), 2014
- (11) **The use of synchrotron radiation for the analysis of the distribution of additives in ABS design objects and model samples**, *D. Saviello*, E. Pouyet, D. Comelli, S. Goidanich, M. Cotte, A. Nevin, L. Toniolo, SR2A, Paris (France), 2014
- (10) **The combination of FTIR and X-Ray micro-spectroscopies for the analysis of thin sections of artistic materials at the ID21 beamline**, *E. Pouyet*, M. Cotte, B. Fayard, A. Lluveras-Tenorio, F. Meirer, A. Nevin, D. Saviello, Ph. Sciau, M. Salomé, CHEMCH14, Vienna (Austria), 2014
- (9) **Full-field X-ray spectroscopy offers new possibilities for the study of paintings**, *E. Pouyet*, M. Cotte, B. Fayard, L. Monico, J. Mass, G. Nuyts, M. Radepon, P. Sciau, ISA, Los Angeles (USA), 2014
- (8) **Chemical imaging applied to artistic materials using full-field X-ray spectroscopy**, *E. Pouyet*, M. Cotte, B. Fayard, L. Monico, J. Mass, G. Nuyts, M. Radepon, P. Sciau, ICXOM, Hamburg (Germany), 2013
- (7) **Combined synchrotron-based micro-spectroscopic analyses of painting thin-sections**, *E. Pouyet*, M. Cotte, B. Fayard, A. Lluveras-Tenorio, J. Mass, D. Saviello, A. Nevin, SSD2013, Val Cenis (France), 2013
- (6) **Synchrotron radiation-based microscopy and spectroscopy applied to the material science of art objects**, *M. Cotte*, E. Pouyet, B. Fayard, *Analytical Spectroscopy in Art and Archaeology*, Technart2013, Rijksmuseum (Netherlands), 2013
- (5) **Synchrotron FTIR micro-spectroscopy analysis of ABS design objects after solar photo-oxidation**, *D. Saviello*, E. Pouyet, D. Comelli, S. Goidanich, M. Cotte, A. Nevin, L. Toniolo, *Analytical Spectroscopy in Art and Archaeology*, Technart2013, Rijksmuseum Amsterdam (Netherlands), 2013
- (4) **Investigation of potassium distribution and speciation in agricultural soils by combination of micro X-ray fluorescence and micro X-ray absorption spectroscopy**, *C. Rivard*, B. Lanson, B. Fayard, E. Pouyet and M. Cotte, *50th Anniversary Annual Meeting of The Clay Minerals Society* (USA), 2013
- (3) **Analysis of artistic paintings by FTIR and X-ray microspectroscopy at the ID21 beamline**, *E. Pouyet*, M. Cotte, M. Salomé, D. Bugnazet, B. Fayard, M. Radepon, Francesco Sette, European Synchrotron Radiation Facility, YOCOCU (Belgium) 2012

(2) **Pushing the limits of X-ray absorption spectroscopy for the analysis of artistic materials**, M. Cotte, E. Pouyet, M. Radepont, B. Fayard, M. Salomé, V. De Andrade, *Synchrotron Radiation in Art and Archaeology, SR2A 2012*, New York (USA), 2012

(1) **Synchrotron-based X-ray and FTIR micro-spectroscopy for the cultural heritage science at the ID21 beamline, ESRF**, M. Cotte, M. Radepont, E. Pouyet, M. Salomé, J. Susini, *International Atomic Energy Agency Technical Meeting on Applications of synchrotron radiation sources for compositional and structural characterization of objects in cultural heritage, forensics and materials science (TM40771)*, IAEA Headquarters, Vienna (Austria), 2011

POSTERS

(4) **Innovative solutions for data analysis of hyperspectral datacube acquired on historical painted objects**, E. Pouyet, N. Rohani, A. K. Katsaggelos, O. Cossairt, M. Walton, *Scientific Methods in Cultural Heritage Research – Gordon* (Spain), 2018

(3) **The combination of FTIR and X-ray micro-spectroscopies for the analysis of thin sections of paintings at the ID21 beamline, European Synchrotron Radiation Facility**, E. Pouyet, M. Cotte, A. Burnstock, B. Fayard, J. Kieffer, A. Lluveras, J. Mass, D. Saviello, A. Nevin, M. Salomé, K. Jan van den Berg., Poster, Technart, Amsterdam (Netherlands), 23-26 September 2013

(2) **Analysis of artistic materials by FTIR and X-ray microspectroscopy at the ID21 beamline**, E. Pouyet, M. Cotte, V. A. Solé, European Synchrotron Radiation Facility, IRUG, Barcelona (Spain), 28-31 March 2012

(1) **The combination of FTIR and X-ray microscopes for the analysis of artistic materials at the ID21 beamline, ESRF**, E. Pouyet, M. Cotte, M. Salomé, D. Bugnazet, B. Fayard, M. Radepont, F. Sette, EMC, Manchester (UK), 16-21 September 2012

EXPERIENCES EN ARCHEOLOGIE

Chef de secteur sur le site du Palais Gallien site, Bordeaux, France, <i>D. Hourcade</i>	Juil. 2011 – Aoû. 2011
Chef de secteur sur le site verrier de Candessous, France, <i>I. Commandré</i>	Juillet 2009
Responsable chantier Rempart sur le site du Palais Gallien, Bordeaux, France	Août 2010
Fouilles d'un village Pre-hispanique, Belen, Chili, <i>T. Saintenoy</i>	Juil.2013 – Aoû. 2013
Fouilles du site verrier des Salines , Sougraine, France, <i>I. Commandré</i>	Mai 2010 – Juin 2010
Fouilles du château de Villandraut, France, <i>M. Ibanez</i>	Avril 2010
Fouilles du site verrier de Candessous, France, <i>I. Commandré</i>	Juin 2008 – Jul. 2008
Fouilles du Roman forum Voconii, <i>supervisor</i> , Le Cannet des Maures, France, <i>F. Marcos</i>	Sept. 2007
Fouilles du de l'amphithéâtre romain de Drevant, France, <i>C. Cribellier</i>	Jui. 2006
Participation à la restauration du site de Coustouge (chantier Rempart), France	Jui. 2008
Stage Musée Saint Vicq, Saint Amand Montrond, France	Avril 2003