



inArt 2022

***5th International Conference
on Innovation in Art Research and Technology***

Program for oral communications

Tuesday 28 June - Friday 1st July 2022

Campus Pierre et Marie Curie

Sorbonne Université

4 Place Jussieu

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<https://inart2022.sciencesconf.org/>

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CONFERENCE PROGRAM

Tuesday 28th June**8 h** **Registration****9 h 15** **Opening****Session chair:** Danilo Bersani**9 h 30** **KN1** - Analysis for understanding heritage and its degradation: insights from wall paintings, easel paintings and archeological materials - [Nevin Austin](#)**10 h** **O1** - Time-resolved hyperspectral imaging for the mapping of weakly luminescent pigments in paintings – [Marta Ghirardello](#)**10 h 25** **O2** - Non-destructive exploration of Late Gothic panel painting using dual-energy X-ray microtomography - [Vavřík Daniel](#)**10 h 50** **O3** - The contribution of archaeometry in characterization of decorative materials from the site of Villa di Teodorico in Galeata (Italy) – [Saviane Luciana](#)**11 h 15** **Coffee/Tea break****Session chair:** Lavinia De Ferri**11 h 45** **O4** - The Dagulf Psalter: an interdisciplinary approach to study inks, dyes and pigments of this early Carolingian manuscript - [Jembrih-Simbürgerr Dubravka](#)**12 h 10** **O5** - Micro- and sub- μ X-ray CT scanning of Congolese heritage objects for wood identification and conservation - [Genbrugge Siska](#)**12 h 35** **O6** -Arena scriptoria from the Portuguese Inquisition documents - occurrence, properties and chemical aspects of this writing tool - [Nunes Margarida](#)**13 h** **Lunch****14 h** **POSTER SESSION 1 (poster P1 to P45)****Session chair:** Manfred Schreiner**15 h** **O7** - Reconstitution of historical recipes: understanding the influence of oil treatment on the properties of artistic oil paint - [Laporte Lucie](#)**15 h 25** **O8** - SuPerStAr - Sustainable Preservation Strategies for Street Art: an Italian research project for the knowledge and the safeguard of public art in urban contexts - [Modugno Francesca](#)**15 h 50** **O9** - Chasing an Alligator: an integrated approach for the study of severe paint defects in a 19th century oil painting - [Marques Raquel](#)**16 h 15** **Coffee/Tea break**

Session chair: Lucile Beck

- 16 h 45 **P110** - Displaying Russian space suits based on conservation research at the Deutsches Museum - [Holzer Charlotte](#)
- 17 h 10 **O11** - Asbestos cement panel paintings - Degradation issues - [Pheulpin Elise](#)
- 17h 35 **O12** - Metal soaps formation in painted miniatures: non-invasive evidence and experimental study - [Garrappa Silvia](#)
- 18 h **O13** - Evidence of metal soaps in commercial paints containing ferrous pigments: yellow ocher - [Costa Thiago](#)
- 18 h 25 End**
- 18 h 30 - 21 h 30 WELCOME COCKTAIL**

[Wednesday 29th June](#)

Session chair: Ina Reiche

- 9 h **KN2** - Archaeometallurgy of iron. Some tentative global approaches - [Dillmann Philippe](#)
- 9 h 30 **O14** - Understanding the manufacturing techniques of Renaissance amour: a coupling between metallographic and SR-XRD investigations - [Bérard Emilie](#)
- 9 h 55 **O15** - Trace element analysis of silver coins from XVI-XVII centuries and fire-gilding thickness of a Romanesque crucifix by X-Ray spectroscopy - [Charlène Pele-Meziani](#)
- 10 h 20 **O16** - The work of gold at Abydos in the Middle Kingdom: analysis of gold jewellery and leaf - [Guerra Maria Filomena](#)
- 10 h 45 Coffee/Tea break**

Session chair: Philippe Dillmann

- 11 h 15 **O17** - The use of in-situ Fourier Transform hyperspectral imaging in the infrared to characterise artist's materials and paintings - [Sherwood Alice](#)
- 11 h 40 **O18** - A multi-technical study of Native North American objects dating from the 17th to 19th centuries - [Daher Céline](#)
- 12 h 05 **O19** - A multi-technique study of historical natural dyes - [De Ferri Lavinia](#)
- 12 h 30 **O20** - New insights into the chemistry of Justicia spicigera dyestuff from Central America - [Arberet Lucie](#)
- 12 h 55 Lunch**
- 14 h POSTER SESSION 2 (poster P46 to P91)**

Session chair: Aurélie Verney-Carron

- 15 h **O21** - Vibrations and cultural heritage preservation: a new approach to protect objects - [Forma Loïc](#)
- 15 h 25 **O22** - Violin varnish technology developments of the 18th century: Radical conversion from classical oil resin mixtures to shellac-based spiritus varnishes - [Zumbühl Stefan](#)
- 15 h 50 **O23** - Investigating the effect of oil binders on the paper supports: modeling deterioration via FTIR and VOC analysis using GC-MS - [Banou Penelope](#)

16h15 Coffee/Tea break

Session chair: António Candeias

- 16 h 45 **O24** - Macro-Raman-mapping: a novel tool to study the pigment distribution of art - [Vandenabeele Peter](#)
- 17 h 10 **O25** - Data fusion of Py-GC-MS and FT-IR data for the evaluation of degradation patterns in modern paints due to ozone and humidity exposure - [Pagnin Laura](#)
- 17h35 **O26** - Studying "Justice" a scientific approach to Violeta Parra's studio practice - [Godoy Valeria](#)
- 18 h **O27** - Tel père, tels fils: a technical study of seven paintings by Camille, Lucien, and Georges Manzana Pissarro - [Chipkin Alexandra](#)
- 18 h 25 End**

Thursday 30th June

Session chair: Aurélie Tournié

- 9 h **KN3** - Life in a large national museum: scientific research at the Victoria and Albert Museum - [Burgio Lucia](#)
- 9 h 30 **O28** - The use of madder lake in the production of the "Fayum" portraits - [Brunel-Duverger Lucile](#)
- 9 h 55 **O30** - Funerary inscriptions in the Siracusa catacombs: white marbles, decorative stones and painted plaster - [Coccatto Alessia](#)
- 10 h 20 **P109** – Painted metals of industrial heritage: characterization and conservation - [Gordon Julie](#)
- 10 h 45 Coffee/Tea break**

Session chair: Lucia Burgio

- 11 h 15 **O31** - Corrosion protection of copper statuary by carboxylates-doped sol-gel coatings - [Lob Silvia](#)
- 11 h 40 **O32** - MiCorr, a transdisciplinary tool for the documentation and the diagnosis of corrosion forms on heritage metal artefacts: building bridges between conservation professionals and material scientists - [Gutknecht Naima](#)
- 12 h 05 **O33** - Studying ancient glass to bring to light new insights into the mechanism of glass corrosion - [Zanini Roberta](#)
- 12 h 30 **O34** - Application of Hyperspectral Imaging for characterizing VOC-induced historical glass corrosion - [Sharma Deepshikha](#)
- 12 h 55 Lunch**
- 14 h – 17 h VISITS**
- 19 h - 23 h CONFERENCE DINNER**

Friday 1st July

Session chair: Simona Raneri

- 9 h **KN4** - Conservation Science: a Human-Centered Approach - [Dufourmantelle Kenza](#)
- 9 h 30 **O35** - The right material for the right application - characterization of the physico-mechanical properties of animal glues in different environments - [Bridarolli Alexandra](#)
- 9 h 55 **O36** - Better preserving the archives of Nature for the future: effectiveness of historical and modern sealants in fluid collections - [Zuber Baptiste](#)
- 10 h 20 **O37** - Gecko-inspired dry adhesives - a case study in testing methodology - [Olender Jacek](#)
- 10 h 45 Coffee/Tea break**

Session chair: Kenza Dufourmantelle

- 11 h 15 **O38** - s-SNOM characterisation of carboxylates growth in a time-depending model - [Stani Chiaramaria](#)
- 11 h 40 **O39** - New nano-Mg(OH)₂ modified siloxane coating for the preservation of gypsum and gypsum-based plasters artifacts - [Bergamonti Laura](#)
- 12 h 05 **O40** - Treating a missing part on cast plaster artefacts: a multidisciplinary methodology adapted to the characterization of filling materials - [Robin Dupire Juliette](#)
- 12 h 30 **O41** - Influence of physicochemical properties of different limestone on microbial colonization and on biodeterioration - [Reboah Paloma](#)

13 h **Lunch**

14 h **POSTER SESSION 3 (poster P92 to P135)**

Session chair: Ludovic Bellot-Gurlet

15 h **O42** - Transmission Kikuchi Diffraction, a powerful imaging technique for nanoscale structural characterisation of cultural heritage materials - [Holé Clément](#)

15 h 25 **O43** - Combining LE-XRF and SR-FTIR microscopy for residue analysis of lithic artefacts - [Dominici Clarissa](#)

15 h 50 **O44** - A mobile instrument for joint X-ray fluorescence and diffraction measurements on complex-shape Cultural Heritage objects - [Poline Victor](#)

16 h 15 **Coffee/Tea break**

Session chair: Peter Vandenabeele

16 h 45 **O45** - Identification and manufacturing technology of a Late Bronze Age IA shellfish purple pigment from Ialysos, Rhodes - [Facorellis Yorgos](#)

17 h 10 **O46** - Impact of pH conditions in the SERS analysis of synthetic colorants: case study of monoazo dyes - [Cañamares Arribas María Vega](#)

17h35 **O47** - Identification of plant fibers from Central Africa used for the creation of textiles and the creation of a reference database in framework of the CAPTex project - [De Paepe Anoek](#)

18 h **Closing Remarks**