

# GREENART

GREEn ENdeavour in Art ResToration

GREENART proposes new solutions, based on green and sustainable materials and methods, and on the elaboration of advanced tools, to preserve, conserve and restore cultural heritage. The main objective is to produce safe and effective solutions for the remedial and preventive conservation of cultural heritage, based on environmentally friendly and low-impact materials made from renewable natural sources or recycled waste.

The training organized by the European project GREENART and by the musée du quai Branly – Jacques Chirac aims to explore the consortium activities, to spread knowledge generated during the development of the project within academic, professional, potential users and industrial domains in addition to upskill key stakeholders and staff on the use of the novel materials/tools/solutions applied to the conservation of cultural heritage.

## The training focuses on four essential sections:

- Lectures and presentations on the theoretical, research and implementation aspects of the novel materials and solutions
- Five practical workshops around the application methodologies and the use of some developed technologies
- A final open question and answer session
- A multimedia room for looping short video projections about green conservation and preventive conservation projects

### PRACTICAL INFORMATION:

Théâtre Claude Lévi-Strauss (theoretical part of the first day)  
Foyer du théâtre Claude Lévi-Strauss (practical part of the second day)  
Salle de cinéma (for video projections)

ORGANISATION: Éléonore Kissel, musée du quai Branly — Jacques Chirac  
Antonio Mirabile, GREENART project

PROJECT TITLE: GREEn ENdeavour in Art ResToration

ACRONYM: GREENART

STARTING DATE: 1 October 2022

DURATION: 30 September 2025

FUNDED UNDER: Culture, creativity and inclusive society

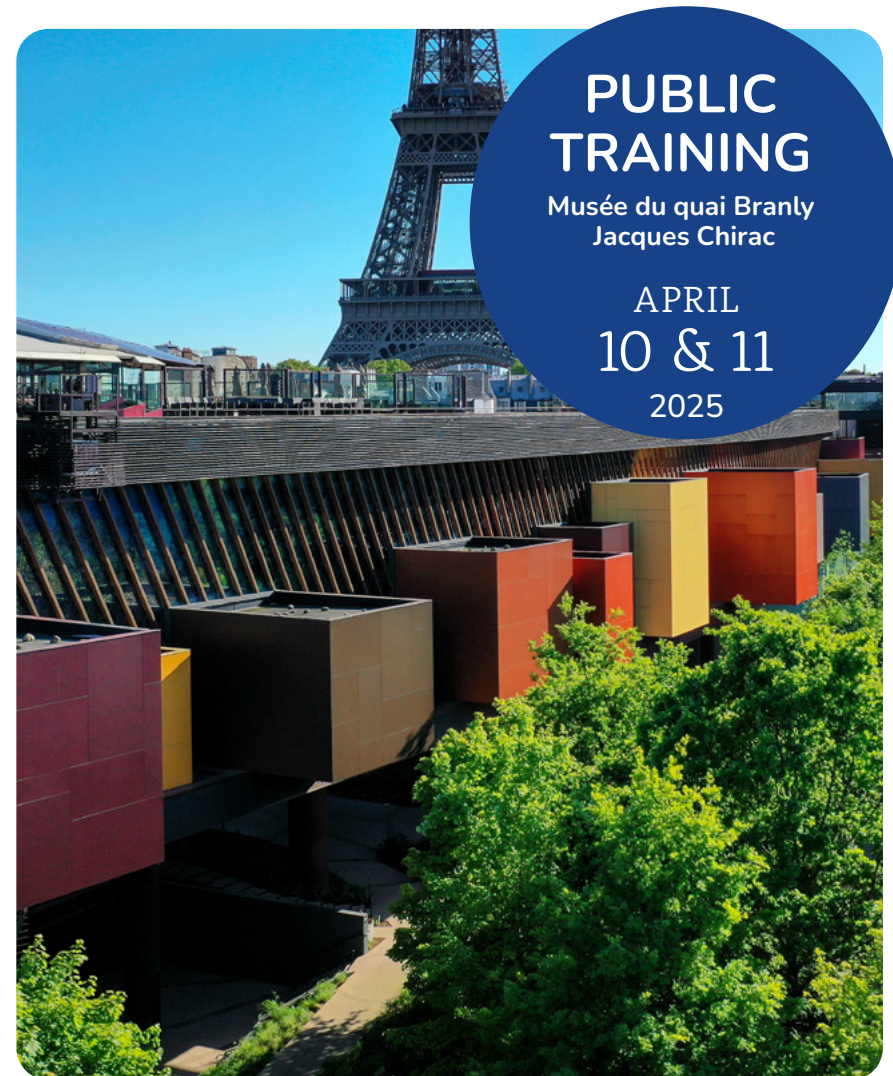
EU CONTRIBUTION: € 3 826 282,50

Photographic credits: © musée du quai Branly - Jacques Chirac, photo Timescope



# GREENART

GREEn ENdeavour in Art ResToration



**10 APRIL 2025****FIRST DAY****09:30 – 09:45: Getting together****SESSION 1****Théâtre Claude Lévi-Strauss****CHAIR: ÉLÉONORE KISSEL,**

Musée du quai Branly — Jacques Chirac

**09:45 – 10:05 Martina Menegaldo:**

Life Cycle Safety and Sustainability Assessment of innovative bio-based solutions for art restoration

**10:05 – 10:25 Manfred Anders and Katharina Schuhmann:**

Active, intelligent and sustainable impulses for archival packaging

**10:25 – 10:45 Costas Galiotis:**

Conservation of cultural heritage through graphene-enabled technologies

**10:45 – 11:05 Salvador Muñoz-Viñas and María Sobrino-Estalrich:**

A greener mounting system for paper artworks

**11:05 – 11:20 Q&A****11:20 – 11:35 Coffee break****SESSION 2****Théâtre Claude Lévi-Strauss****CHAIR: STÉPHANIE ELARBI,**

Musée national d'art moderne – Centre Pompidou

**11:35 – 11:55 Marino Lavorgna and Letizia Verdolotti:**

Innovative sustainable coatings and custom-made composite polyurethane foams for cultural heritage preservation

**11:55 – 12:15 Gabriella Di Carlo:**

Bio-based multifunctional coatings for a tailored and long-term protection of metal cultural objects

**12:15 – 12:35 Camila A. Rezende and Camilla H. M. Camargos:**

Nanocellulose-based coatings and hydrogels for cultural heritage conservation

**12:35 – 12:55 Romain Bordes:**

Development of green dispersion for the consolidation of encaustic paintings

**12:55 – 13:10 Q&A****13:10 – 14:30 Lunch break****SESSION 3****Théâtre Claude Lévi-Strauss****CHAIR: AGNÈS GALL-ORTLIK,**

ARCP Atelier de restauration et conservation des photographies, Ville de Paris

**14:30 – 14:50 Piero Baglioni:**

New "green" and sustainable materials for the wet cleaning of works of art

**14:50 – 15:10 Bronwyn Ormsby:**

Evaluating and assessing novel cleanings systems for the cleaning of works of art: GREENART at Tate

**15:10 – 15:30 Athina Georgia Alexopoulou:**

Proposal of user-friendly methodologies for the evaluation of green materials

**15:30 – 15:50 Balázs Lencz and Norbert Németh:**

Evaluation of green materials, developed in GREENART project, used in the treatment of historical objects at the HNM PCC

**15:50 – 16:05 Q&A****16:05 – 16:20 Coffee break****SESSION 4****Théâtre Claude Lévi-Strauss****CHAIR: ÉMILIE DOMINEY,**

Independent conservator

**16:20 – 16:40 Penelope Banou:**

Varnish removal on works of art on paper. Evaluating the results of gel applications

**16:40 – 17:00 Martina Vuga & Lucija Močnik Ramovš:**

Some observations on the new cleaning systems used for varnish removal

**17:00 – 17:20 Soraya Alcalá :**

Assessing sustainable hydrogels to mitigate discoloration in cotton canvas artworks

**17:20 – 17:40 Laura Maccarelli and Jessica Chasen:**

The LACMA Case study: application of several green gels to polychrome surfaces

**17:40 – 18:00 Q&A****11 APRIL 2025****SECOND DAY****09:30 OPENING OF THE MULTIMEDIA ROOM WHICH WILL FOLLOW THE WORKSHOP CYCLE :****Salle de cinéma**

looping short video projections about green conservation and preventive conservation projects.

**09:30 – 11:00****WORKSHOPS: FIRST CYCLE OF PRACTICAL ACTIVITIES****Foyer du théâtre Claude Lévi-Strauss****WS1: GIOVANNA POGGI:***Innovative green gels for the cleaning of works of art*

- Introduction to gels
- Innovative gels developed within GREENART
- Demonstration of gels features and handling
- How to apply gels in conservation practice (also loaded with innovative green fluids)

**WS2: CAMILA A. REZENDE AND CAMILLA H. M. CAMARGOS:***Nanocellulose/nanolignin protective coatings and nanocellulose/biopolymer hydrogess*

- Overview of the properties and handling of nanocellulose- and nanolignin-based materials for cultural heritage conservation
- How to apply water-based nanocellulose coatings on aged and unaged cellulosic substrates
- How to apply nanocellulose/biopolymer hydrogels to remove artificial soil or aged adhesives from smooth or rough mock-up surfaces

**WS3: FRANCESCA BOCCACCINI:***Sustainable protective coatings for metal cultural objects: properties and application*

- Introduction to the novel sustainable coatings: benefits and challenges of biopolymer-based materials

- How to apply the protective materials on mock-ups with different composition and surface finish
- Demonstration of the aesthetic properties and reversibility
- Application on metal objects

**WS4: MANFRED ANDERS AND KATHARINA SCHUHMAN:***Integration of sustainable raw materials, novel regulators and sensing devices in archive box production*

- Examples of customized storage solutions for special applications in archives / museums will be presented
- Improved box constructions will be presented
- Sustainable raw materials will be demonstrated
- The utilization of an integrated T/RH sensor transponder can be tested
- Modular combinability of green acid/VOC absorbents or antifungal materials with the storage enclosures will be demonstrated and can be tested

**WS5: ANDREA CASINI:***Art Conservation goes green: Sustainable and "green" cleaning fluids with low impact solvents and surfactants*

- The shift toward sustainable conservation
- Guidelines for a "greener" selection
- Innovations in green cleaning solutions
- Practical use and impact on conservation workflows

**11:00 – 11:15 Coffee break****11:15 – 12:45 Second cycle of practical activities****Foyer du théâtre Claude Lévi-Strauss****12:45 – 14:00 Lunch break****14:00 – 15:30 Third cycle of practical activities****Foyer du théâtre Claude Lévi-Strauss****15:30 – 15:45 Coffee break****15:45 – 17:15 A final open question and answer session**