



# WP 7 Green Education

Work Package Leader: The Courtauld Institute of Art



## Want to Know More?

Visit the GoGreen Website for Updates!

# GO GREEN PROJECT

GoGreen develops and promotes preventive and remedial conservation practices based on green principles to spearhead the green revolution within conservation in alignment with the Green Deal.







# WEBINAR CONTENTS



WP7 Background



GoGreen Paris Symposium



GoGreen Modules

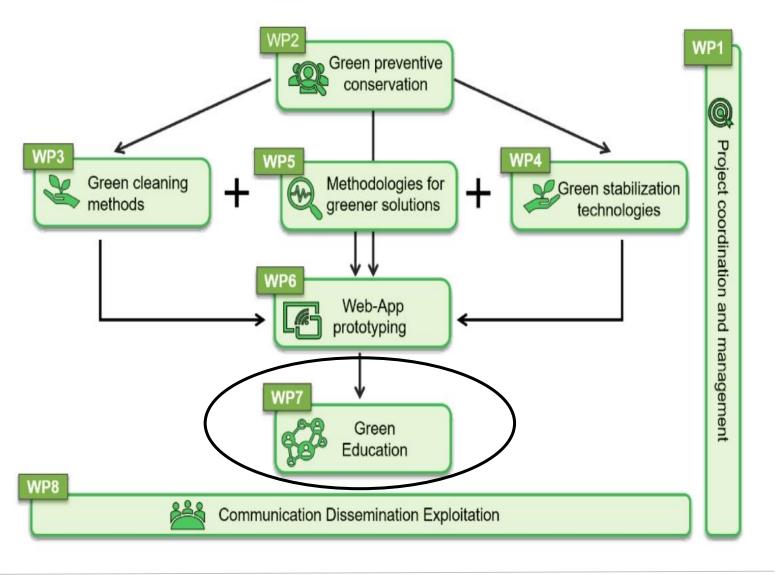


On-going
Developments
& Outputs













# WP7

Dissemination of GoGreen research through four educational modules with training materials for emerging and professional conservators



## WP7 DELIVERABLES

**7.1**Preparation
of Module
Materials

- Template
- Bibliographies
- Learning material

**7.2**GoGreen
Academy

- Delivery of workshops
- Publication of Module Materials









# GoGreen PARIS SYMPOSIUM



















# SYMPOSIUM



A unique event uniting conservation experts, educators, heritage scientists, and early-career researchers—fostering collaboration on integrating sustainability into conservation education.



# CONFERENCE



**Educational** Approaches



Research Dissemination



**Demonstrations** 





# **EDUCATIONAL APPROACHES**

Embedding Sustainability in Cultural Heritage Conservation Education





**Justine Wuebold and Glenn Wharton** 

**UCLA** 

Interdepartmental Program in the Getty Conservation of **Cultural Heritage**  Transdisciplinarity or the Art of Teaching Blue Pigments



Florence Boulc'h



Reframing Conservation through Sustainability



**Marina Herriges** 









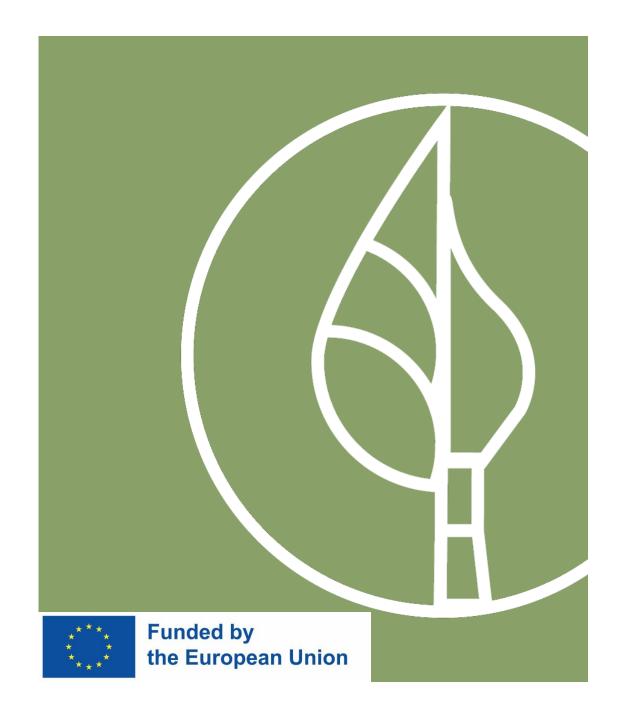






**Theanne Schiros** 





# **DEMONSTRATIONS**





	Delizelle	ronnie acid
Art Work Specific/Professional Parameters		
G9 Combination Conservation Materials And Application	6	•
G10 Number Of Application/Estimated Quantity	0	0
G11 Longevity Of Treatment (Retreat And Durability/Lifeti	3	10
S12 Accessibility - Availability In Production & Purchasing	6	6
S13 Quality Of Result	0	0
S14 Accessibility - Ease Of Use (Working Properties). Tim	0	6
Hazard Impacts On Human And Environment		
G1 Toxicity (And Hazard Metrics) Environment Direct And	0	4
G2 Toxicity (And Hazard Metrics) User Direct And Indirect	6	6
Impacts On Climate Change		
G3 Energy - Climate Indoor Control And Outdoor Location	0	0
G4 Energy - Consuption Specific Application (Preventive	0	3

GoGreen Digital Support App (DSA)

### HERie: Digital Preventive **Conservation Platform**



Electrical sources, go flammable liquids, si

#### Criminals and vandals

Break and enter, theft, souvenir hunting, graffiti



#### Pests

Insects, rodents, rats, cats



#### Contaminants

Dust, dirt, air polluto restorations

#### Radiation

UV, VIS, IR

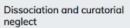


Leakage, burstpipe, spillage, cleaning



#### Physical forces

Earthquake, vibriati and tear, break, scro



Misplacing objects, no inventory, removing labels









# WORKSHOP







Test
collaboration
as a tool for
module
development

Four groups drafted the GoGreen module drafts

Drafts are being further developed as part of WP7









# **GUEST SPEAKER**



**Loïc Bertrand** 

Senior Researcher (Directeur de recherche) ENS Paris-Saclay, France





# **BEFORE GOGREEN, JUNE 2021**







Alessia Artesani Loïc Bertrand Emilio Catelli Giulia Franceschin Victor Gonzalez Julia Greiner Joen Hermans Katrien Keune Mathilde Monachon Austin Nevin Silvia Prati Antonio Sansonetti Eleanor Schofield Brique Sibbing Giorgia Sciutto Caitlin Southwick Maartje Stols-Witlox David Thickett Arianna Traviglia Annelou van Gijn Carolina Vatteroni

# AN EDUCATION COMPONENT

It is not common to have an education component within a European Union research and innovation action

# CONSORTIUM

### Training in conservation

- 1. The Courtauld
- 2. University Paris 1 Panthéon-Sorbonne
- 3. University of Amsterdam
- 4. IKiFP, Polish academy of sciences
- 5. Haute école spécialisée de Suisse occidentale HES-SO

# Training in natural sciences for / through conservation

- 1. University of Bologna
  - 2. ENS Paris-Saclay
- 3. University of Amsterdam

# MAJOR CHALLENGES

**Main objective**: Develop a framework for future modules in Green conservation, both for training in conservation and natural sciences (particularly chemistry)

#### Method

- Review existing practice
- Test the interest of digital tools for education
- Start drafting training modules during the meeting
- Prepare support documents for our own institutions

### An embedded "train the trainer" approach

# THE "PARIS MEETING", JAN. 2025





#### MAIN MENU

Home

Programme

Registration

Venue

Funding

Committees

HELP

@ Contact

#### HOME

#### GoGreen European Workshop - Education in Green Conservation

#### 16-17 January 2025

GoGreen is a major European consortium developing environmentally-friendly solutions for the protection of cultural heritage. As part of the project, education modules will be developed on green leadership in conservation; determining the sensitivities of materials; green treatments and their evaluation; and green decision-making tools.

The consortium is bringing together major institutions involved in the training of conservators (e.g., Haute Ecole Arc Conservation Restauration, University of Applied, Sciences and Arts Western Switzerland HES-SO, Courtauld Institute of Art, Université Paris 1 Panthéon-Sorbonne, University of Amsterdam), as well as institutions in which scientific departments organise specific training activities based on the aims and practice of art conservation (e.g., University of Bologna, ENS Paris-Saclay, University of Amsterdam).

The workshop will examine the state of the art and explore how new content can be better integrated into the training programmes of conservators, physicists, chemists and instrumentalists in Europe towards more ecological conservation processes, including new chemical developments and digital decision-making tools. The workshop will bring together a multidisciplinary international panel made up of experts in green conservation, specialists in pedagogy and educational sciences, including chemical education and environmental sciences.



Centre Malher, Université Paris 1 Panthéon-Sorbonne Amphithéâtre Dupuis 9 rue Malher 75004 Paris













# A TEAMWORK

- Claire Bételu, Université Paris 1 Panthéon-Sorbonne
- Clare Richardson, The Courtauld Institute of Art
- Rebecca Senior, The Courtauld Institute of Art
- Loïc Bertrand



# **DEFINING THE MODULES "LIVE"**

Experience of joint writing of reports in International Atomic Energy Agency expert meetings







# **TESTING IN FRONT OF CLASSES**

- New training directly integrated into the project
- Testing new interdisciplinary formats
- Accelerating the transition from research to practice



# PRECEDED BY A REGIONAL EVENT

- In the Île-de-France Region, the Paris meeting was preceded by a regional meeting organised by DIM PAMIR, the key research sector for tangible heritage
- This provided background for contributing to the EU event (Jouves-Hann et al.)





TABLES RONDES

Recherche en conservation-restauration:
Former et diffuser les savoirs



5 novembre 2024, de 9h à 13h - Salle Vasari, Galerie Colbert, Paris Format hybride WP2 WP8

Leadership in Green Conservation



WP2

Material Sensitivities and Green Decision-Making

**MODULES** 

WP3-5 WP8 Green Treatments for Paintings and Their Assessment

WP3-5 WP8 Green Treatments for Objects and Their Assessment



#### The Courtauld



### AIM

**ADAPTABLE** and **FLEXIBLE** 

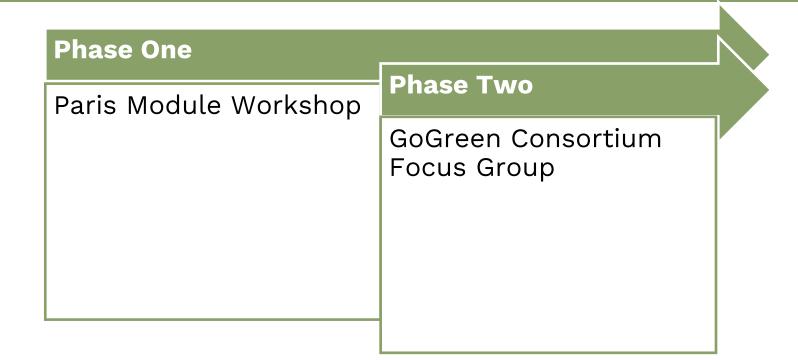
to various academic and professional contexts





# MODULE DEVELOPMENT

WP7 aims to utilize <u>COLLABORATION</u> with interdisciplinary professionals









# PHASE ONE OUTCOMES







Outlined structure of four core modules

Engaged professionals in multidisciplinary knowledge exchange

Identified key challenges and priorities for course development





# GoGreen MODULES







# Leadership in Green Conservation



# LEADERSHIP IN GREEN CONSERVATION



#### **Mission Statement**



To promote green leadership by helping students and professionals to become advocates for greener practices, equipped with knowledge, tools and skills needed to inspire adaptable, community-driven strategies for the long-term stewardship of cultural heritage.





# MODULE CONTENT







CLIMATE RESPONSIBILITY



CLIMATE ACTION



GREEN TOOLS



GREEN ADVOCACY





# Material Sensitivities + Green Decision-Making



# MATERIAL SENSITIVITIES + GREEN DECISION MAKING



#### **Mission Statement**



Inform the decision-making process to enhance <u>OUR</u> cultural heritage through knowledge of green conservation and material sensitivities





# MODULE CONTENT









Identifying Sensitive Materials Green
DecisionMaking

Assessment Tools for Degradation Risks Greener
Solutions for
Preventive
Conservation





# Green Treatments for Paintings + Their Assessments



## Green Treatments for Paintings + Their Assessments



#### **Mission Statement**



Inform the conservation practice for paintings through the introduction of greener tools + methods to promote sustainable development





### MODULE CONTENT



Historical Approaches to the Conservation of Paintings and Painted Artefacts



Eco-Conscious
Strategies for
Conservation Project
Management



Greener Methods in Conservation Practice



Green Applications for Remedial Conservation





# Green Treatments for Objects + Their Assessments



# Green Treatments for Objects + Their Assessments



#### **Mission Statement**



Inform the conservation practice for objects through the introduction of greener tools + methods to promote sustainable development





### MODULE CONTENT



Historical Approaches to the Conservation of Objects



Eco-Conscious Strategies for Conservation Project Management



Greener Methods in Conservation Practice



Green Applications for Remedial Conservation









**Case Studies** 



**Practical Workshops** 



Role Plays



Multi-media projects



**Collaborative Group Work** 





## DIDACTIC LEARNING MATERIAL

Aim: To support learning of module content in the form of:

- Presentations
- Worksheets
- Infographics

#### Sample Worksheet:

 Encourages students to make the link between the UN SDGs and conservation/cultural heritage

#### Leadership in Green Conservation

#### **Climate Awareness**

#### **Group Activity Sheet**

Linking UN SDGs to Conservation + Cultural Heritage

Instructions: In your group discuss how the UN Sustainable Development Goals (SDGs) relate conservation/cultural heritage sector. Use the table below to identify 5 goals that connect to conservation/cultural heritage. Provide examples and explanations for your choices.

#### Understanding the SDGs

- 1. Briefly define the UN Sustainable Goals (SDGs)
- Why do you think conservation/cultural heritage is a key driver in achieving sustainable developent.

#### Linking SDGs to Cultural Heritage

SDG Number + Title	Link to Cultural Heritage	Example + Justification
3.9: Mortality from environmental pollution – reduce the number if death and illnesses from hazardous chemicals and air, water and soil production and contamination	Solvent use in cultural heritage	Formation/use of greener solvents promotes 3.9 by reducing conservator's exposure to hazardous chemicals

#### Reflection

- Describe challeneges/limitations in integrating conservation/cultural heritage with SDGs.
- Reflect what your group learned from this activity and how it has influenced your understanding of the connection between cultural heritage and the SDGs. (min. 300 words)

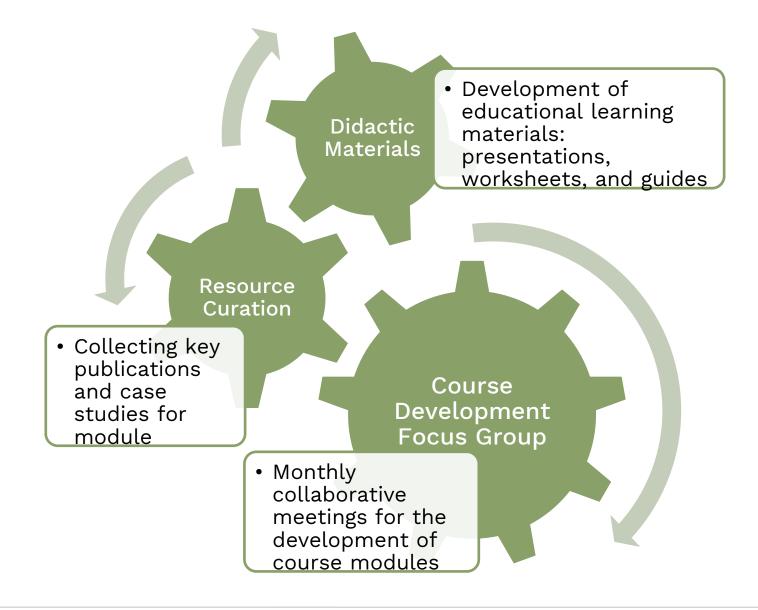








### ON-GOING ACTIONS







#### The Courtauld



Collaborative Working Group Meetings

### Future Plans: Deliverable 7.1



Generation of module descriptions



Creation of didactic materials, and bibliographies





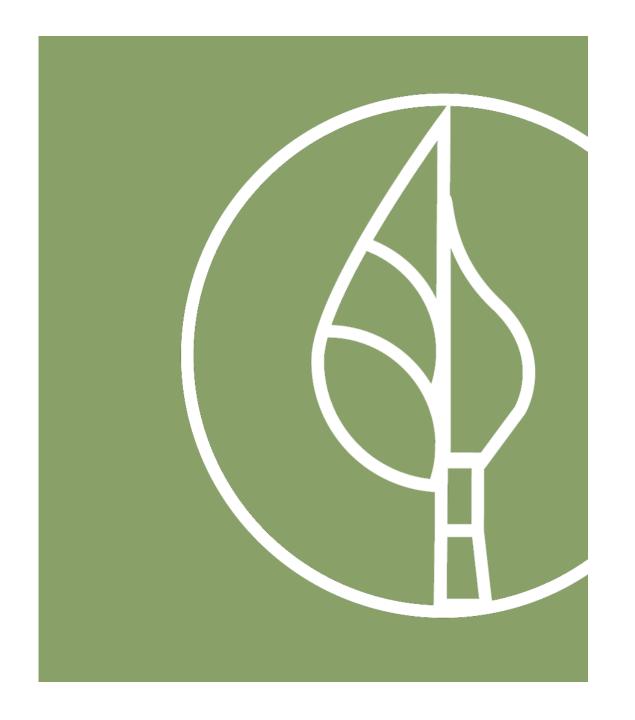
### Future Plans: Deliverable 7.2

- Workshops focusing on the application of cleaning and consolidation methods using material from GoGreen
- 2. Dissemination of WP7 modules at a workshop aimed at conservation educators
- 3. Publication of Module Templates on GoGreen Academy for use/integration









## Questions?

#### Contact Us:

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