

ChemiNova

Novel Technologies for On-Site and Remote Collaborative Enriched Monitoring to Detect Structural and Chemical Damages in Cultural Heritage Assets



Funded by
the European Union



HOST

UNIVERSITÉ
BOURGOGNE
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forthem.
Fostering Outreach
within European Regions,
Transnational Higher Education
and Mobility

Summer school 2026

*Bringing Together Heritage Conservation,
Digital Innovation, and Climate Resilience*

The ChemiNova Summer School 2026 aims to equip participants with the skills needed to identify, monitor, and address damages to cultural heritage assets using innovative remote monitoring tools and methodologies. The program will combine theoretical knowledge, practical exercises, and expert-led discussions to enhance participants' ability to contribute effectively to the conservation and protection of cultural heritage. This Summer School brings together an interdisciplinary group of international lecturers and experts from leading universities, research institutes, and heritage organizations across Europe. The teaching team includes specialists in cultural heritage conservation, atmospheric sciences, archaeology, material science, digital documentation, artificial intelligence, and data management. Contributors come from institutions such as CNR-ISAC (Italy), ICCROM, the University of Valencia (Spain), the University of Palermo (Italy), Leibniz University Hannover (Germany), the University of Cluj-Napoca (Romania), and the University of Bourgogne Europe (France), among others. Together, they will provide a balanced programme combining scientific foundations, cutting-edge analytical techniques, and hands-on training in digital methods such as Reflectance Transformation Imaging (RTI), ensuring a comprehensive learning experience that links heritage conservation with digital innovation and climate resilience.

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Objectives

1. Knowledge transfer: Introduce students to new and innovative remote methods for monitoring the state of preservation of cultural heritage materials.
2. Tool exploration: Familiarize students with the tools developed by ChemiNova, such as ChemiPortal.
3. Practical application: Provide hands-on experience in using these tools for condition reporting and damage assessment.
4. Collaboration: Foster dialogue and collaboration among students, heritage professionals, and project partners.

! Disclaimer

There is a limit of 40 participants for the online modality. In addition, there is a separate limit of 12 participants for the on-site training in Burgundy, which will be held at the ImViA Lab of the University of Bourgogne Europe.

Important: ChemiNova does not pay for students to stay or travel to Burgundy for the On-site practical training.



Target Audience

Participants backgrounds: Degree in Fine Arts, Degree in History, Degree in Art History, Degree in Conservation and Restoration of Real Estate, Degree in Geography and Environment, Degree in Information and Documentation, Degree in Technical Architecture, Degree in Audiovisual Communication, Degree in Design and Creative Technologies, Degree in Foundations of Architecture, Degree in Industrial Computing and Robotics, Degree in Telecommunication, Sound and Image Systems Engineering, Degree in Digital and Multimedia Technology, Degree in Interactive Technologies, Degree in Multimedia Engineering, Degree in Data Science, Degree in Computer Engineering, Degree in Telecommunication Electronic Engineering, Degree in Industrial Electronic Engineering, Degree in Chemical Engineering, Degree in Telematics Engineering; Master in Art History and Visual Culture, Master in Cultural Heritage, Master in Cultural Management, Master in Chemical Engineering, Master in Web Technologies, Cloud Computing and Mobile Applications, Master in Data Science, Master in Archaeology, Master in Chemistry, Master in Experimental Techniques in Chemistry, Erasmus Mundus Master in Theoretical Chemistry and Computational Modelling, Master in Audiovisual Contents and Formats, Master in Data Science, Master in Archaeology, Master in Chemistry, Master in Experimental Techniques in Chemistry, Master in Theoretical Chemistry and Computational Modelling, Master in Audiovisual Contents and Formats, Master in Data Science, Master in Data Science, Master in Data Science, Master in Archaeology, Master in Chemistry, Master in Chemistry, Master in Experimental Techniques in Chemistry.

1st DAY (9/6/26) : FULL ONLINE

MORNING: Climate Change and Damages Identification

10:10 - 10:20 CET	Welcome note host	Alamin Mansouri/ ImViA Lab, University of Bourgogne Europe, France.
10:20-10:30 CET	Welcome note organiser	Laura Tapini/ DIADRASIS NGO, Athens, Greece.
10:30–11:50 CET	Masterclass & Expert Led Discussion: <i>Assessing Risk and Vulnerability of cultural and natural heritage against climate hazards in Europe and the Mediterranean Basin</i>	Alessandro Sardella/ Consiglio Nazionale delle Ricerche - Institute of Atmospheric Sciences and Climate (CNR-ISAC), Italy.
11:50-13:10 CET	Masterclass & Expert Led Discussion: <i>Biodeterioration induced by microorganisms and insects, and related structural changes</i>	Bartolomeo Megna, Franco Palla and Barbara Manachini/ Università degli studi di Palermo (UNIPA), Italy.

AFTERNOON: How to conduct a damage and risk assessment for CH in emergency situations

16:30-17:50 CET	Masterclass & Expert Led Discussion: <i>Methodology for undertaking damage and risk assessment for cultural heritage</i>	Rohit Jigyasu/ International Centre for the Study of the Preservation and Restoration of Cultural Property (ICCROM), Italy.
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2nd DAY (10/6/26) : FULL ONLINE

MORNING: Application of Analytical Techniques for Damage Assessment in Cultural Heritage Assets

10:30–11:50 CET	Masterclass & Expert Led Discussion: <i>Reflectance Imaging Spectroscopy (RIS) & X-Ray Fluorescence (XRF) for Cultural Heritage characterization</i>	Gianni Gallelo/ <i>Material Science Institute (ICMUV), Prehistory, Archaeology and Ancient History Department- University of Valencia (UVEG), Spain.</i> Álvaro Solbes/ <i>Art History Department – University of Valencia (UVEG), Spain.</i>
11:50-13:10 CET	Masterclass & Expert Led Discussion: <i>Reflectance Transformation Imaging for conservation documentation</i>	Alamin Mansouri/Amalia Siatou <i>ImViA Lab, University of Bourgogne Europe, France.</i>

AFTERNOON: AI and Data management for Cultural Heritage

16:30-17:50 CET	Masterclass & Expert Led Discussion: <i>AI for damage prediction</i>	Franz Rottensteiner/ <i>Leibniz University Hannover (LUH) Germany.</i>
17:50-19:10 CET	Masterclass & Expert Led Discussion: <i>Data management in cultural heritage research projects</i>	Noèmie Gabay / <i>ICCROM, Italy.</i> Teodor Stefanut/ <i>Technical University of Cluj-Napoca (UTC), Romania.</i>


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3rd DAY (11/6/26): ON SITE & ONLINE

MORNING: ON SITE (ImVia Lab) Max. 12 people

9:30-12:00 CET	I Hands-on RTI: <i>Training on how to acquire data on CH assets</i>	Alamin Mansouri / Amalia Siatou/ Matthieu Rossé/ Fan Yang-Song/ Amine Mansouri/ Amine Dahmouni/ ImViA Lab, University of Bourgogne Europe, France.
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AFTERNOON: ON SITE (ImVia Lab) Max. 12 people

13:30-15:30 CET	II Hands-on RTI: <i>Training on how to acquire data on CH assets</i>	Alamin Mansouri / Amalia Siatou/ Matthieu Rossé/ Fan Yang-Song/ Amine Mansouri/ Amine Dahmouni/ ImViA Lab, University of Bourgogne Europe, France.
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AFTERNOON: ONLINE (alternative for non-onsite students) Presentation of HORIZON Research Projects & Tools Demonstration

16:00-16:30 CET	ARGUS EU project Iphotocult EU project NERITES EU project	George Pavlidis. "Athena" Research and Innovation Center (ARGUS) Anastasia Giakoumaki <i>Foundation for Research and Technology - Hellas (FORTH) Institute of Electronic Structure & Laser (iPhotoCult)</i> Elena Tilegrafou <i>ATLANTIS CONSULTING S.A. (NERITES)</i>
16:30-17:50 CET	Demonstration of e3D modelling	Peter Dorminger/4D-IT, Vienna, Austria.
17:50-19:10 CET	Demonstration of ChemiPortal and ChemiAnalysis	Teodor Stefanut/ Technical University of Cluj-Napoca (UTC), Romania.

4th DAY (12/6/26): ONSITE (ImVia Lab) Max. 12 people

9:30-12:00 CET

III Hands-on RTI: *Training on how to acquire data on CH assets*

Alamin Mansouri / Amalia Siatou/ Matthieu Rossé/ Fan Yang-Song/ Amine Mansouri/ Amine Dahmouni/ ImViA Lab, University of Bourgogne Europe, France.



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