

CHARISMA

Cultural Heritage Advanced Research Infrastructures: Synergy for a Multidisciplinary Approach to conservation / restoration

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Scope

In CHARISMA, 21 institutions collaborate to generate and disseminate knowledge applied to cultural heritage values and preservation. This 4 year project is divided into 3 main activities and will run from October 2009 to September 2013.

Network activities

The aim of the network activities is the exchange of information. This can be done in different ways; the main activities will be the organisation of symposia, training, workshops, expert meetings, etc to exchange information on relevant topics. These events may be open to everyone from the Cultural Heritage community (i.e. contributions and participation from CHARISMA members and outside) or devoted to a smaller group of this community. Within CHARISMA the aim is to organize events which are closely related to the Access and Joint Research Activities, however, events on other topics will be organized as well.

Access activities

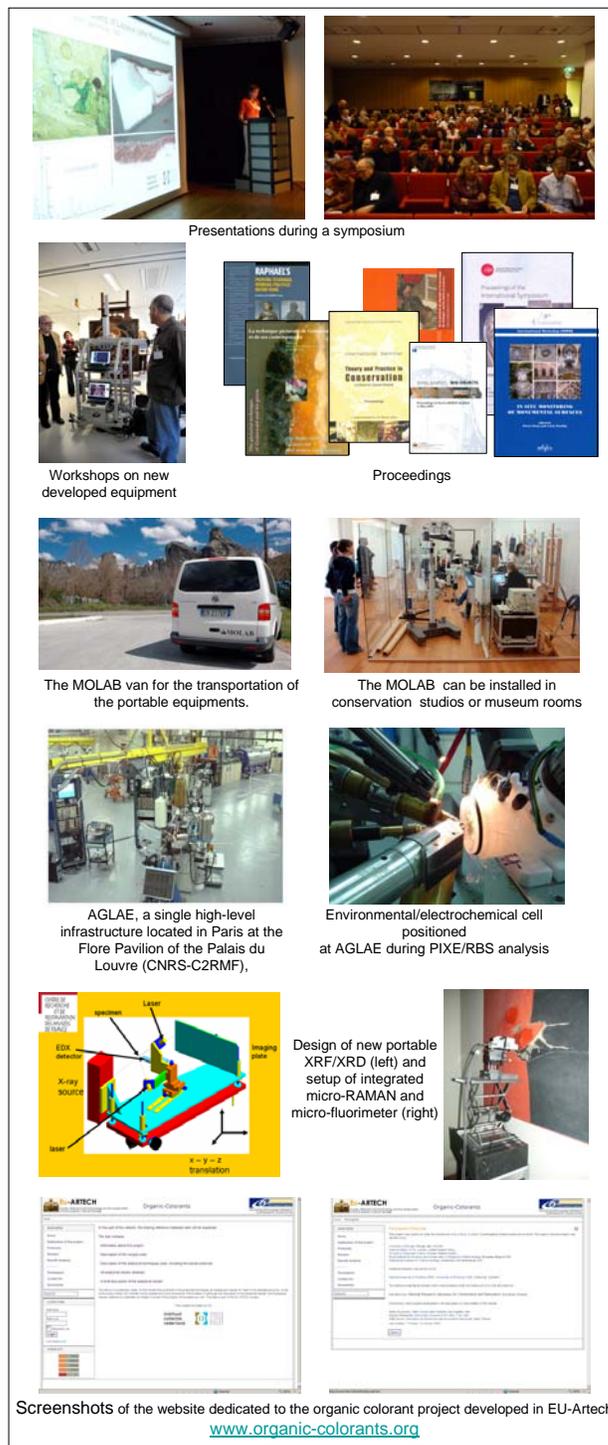
These activities give access to professionals from the cultural heritage community to knowledge and instrumentation of the CHARISMA consortium. In this way, the scientist, conservator and / or art historian can work together on conservation issues. A Mobile laboratory (MOLAB) will travel through Europe to perform non-destructive analysis on objects of art. Large scale infrastructures (FIXLAB) are available for non-destructive analysis of transportable objects. Within ARCHLAB, 6 institutions will offer access to their archives and if necessary offer scientific support for further research. Costs for travels and research will be covered by the CHARISMA project. A call for proposals will be distributed every six months via the CHARISMA website and evaluated by an independent expert panel.

Joint research activities (JRA)

The JRA's are all focussed on the development of new methodologies with an emphasis on non invasive or micro invasive analysis. A Portal to Cultural Heritage will be created to have virtual access to the archives of ARCHLAB. New portable instrumentation will be developed which could be added to MOLAB. New techniques will be developed to identify and localize organic materials in cross-section. In addition, imaging techniques will be optimised to identify materials on objects, including the distribution of these materials in depth. A specific task will be devoted to improve identification of organic colorants; since this is of interest for the DHA audience it will be presented on a second poster.

The website

A website is launched on which information can be found regarding the network activities, the application forms of the access activities and the progress of the JRA's. See <http://www.charismaproject.eu/>



Presentations during a symposium

Workshops on new developed equipment

Proceedings

The MOLAB van for the transportation of the portable equipments.

The MOLAB can be installed in conservation studios or museum rooms

AGLAE, a single high-level infrastructure located in Paris at the Flore Pavillon of the Palais du Louvre (CNRS-C2RMF),

Environmental/electrochemical cell positioned at AGLAE during PIXE/RBS analysis

Design of new portable XRF/XRD (left) and setup of integrated micro-RAMAN and micro-fluorimeter (right)

Screenshots of the website dedicated to the organic colorant project developed in EU-Artech www.organic-colorants.org