

## Material Culture and Heritage

### Strategies for conservation, archaeometry and diffusion of material Cultural Heritage

#### KEYWORDS

- Archaeometry
- Materials
- Sensors
- Coatings
- Didactics

#### POTENTIAL END USERS

Companies and institutions for restoration and conservation of cultural items, museums, education centers.

#### TECHNIQUES

- For preparation of materials, coatings and sensors.
- Binocular and petrographic microscopes, polariscope.
- Tensiometer, refractometer, spectrophotometer, colorimeter, portable sensometer.

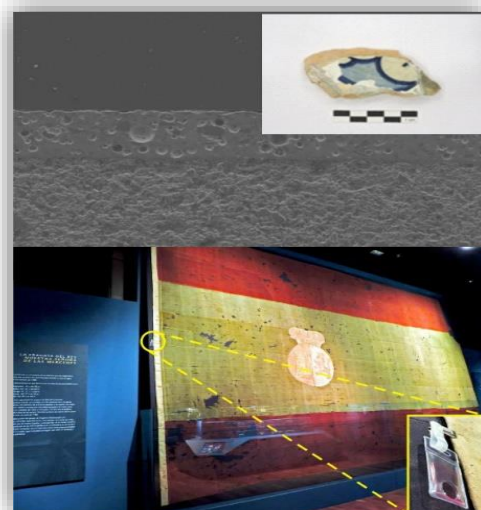
#### Need or problem that solves

The Material Culture and Heritage research team (GI CERVITRUM) focuses on the study of the material Cultural Heritage, its conservation and diffusion.

- Chemical-physical characterization of inorganic materials (glasses, metals, ceramics, mortars, raw materials, etc.) by means of archaeometric methods.
- Study and diagnosis of degradation processes of materials.
- Strategies for preventive conservation (protective coatings, environmental sensors, replacement materials, etc.)
- Making and implementation of didactic, educational and diffusion documents and activities.
- Experimental works with/in cultural items and redaction of scientific-technical reports.

#### Innovative aspects

- The archaeometric study of cultural items and the degradation diagnosis allows the knowledge on the production technology and its relationship with the chronology and the most adequate procedures for an integral conservation.
- The environmental sensors technology with optical response contributes to the early control of degradation processes both indoor and outdoor.
- Education for heritage conservation: it begins in the classroom and continues in museums and Heritage sites through a specialized diffusion.
- The scientific-technical reports on cultural items materials guarantee excellence conservation interventions.



#### Equipments

The [Laboratory of Heritage Conservation](#) at the Institute of History, linked to the Material Culture and Heritage research team, has a wide variety of equipments.

#### Contact

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