



2019 IMEKO TC-4 INTERNATIONAL CONFERENCE ON

# METROLOGY FOR ARCHAEOLOGY AND CULTURAL HERITAGE

FLORENCE, ITALY | DECEMBER 4-6, 2019



UNIVERSITÀ  
DEGLI STUDI  
FIRENZE

## CALL for PAPERS for the special session on:

### MEASUREMENT AND INSTRUMENTATION FOR THE PREVENTIVE CONSERVATION OF METALLIC WORKS OF ART

#### → ABSTRACT

Conservation of metallic artifacts or archaeological and historic interest is based on the concept of preventive conservation, taking into account that the degradation phenomena cannot be avoided and the aging processes are the result of the interaction with the environment which surrounds the artifacts. According to the Conservation Committee of the International Council of Museums (ICOM-CC) preventive conservation is defined as “all measures and actions aimed at avoiding and minimizing future damages”. Non-invasive diagnostic techniques and measurements are, therefore, very important tools for restorers and art historians to obtain trustworthy information on the artifact conservation state, on the degradation mechanism affecting the artifact as a function of the environment in which it is exposed and of the stability of the restoration treatment. This information is essential for the development of the most appropriate methodology for ensuring a long-lasting preservation of these important witnesses of the human culture.

#### → TOPICS

- In detail the main topics will be:
- Measurement techniques for studying the corrosion behavior of metallic artifacts;
  - Non-invasive diagnostic techniques for in situ measurements and long-time monitoring;
  - Eco-friendly and sustainable methodologies for preventive conservation;
  - Measurements and sensors for environmental monitoring.

#### → ORGANIZED BY



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