

ANALYTICAL TECHNIQUES AND ITS USE IN ARCHEOMETRY: CASE STUDIES OF CULTURAL AND ARTISTIC ARGENTINEAN HERITAGE

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The use of analytical techniques for cultural heritage study has expanded notably in recent decades. There is a growing interest in identifying the materials used in cultural objects and this fundamentally lies in clearly understanding and knowing the provenance, manufacturing technologies, the state and mechanism of objects deterioration to over time, exposure to environmental factors. , etc. A comprehension and understanding the materials composition at the molecular level can provide valuable information for conservators, allowing them to decide on the most appropriate conservation procedure.

The application of new analysis methodologies continues to expand with the ability to analyze minute sample quantities without sacrifice precise information. The development of non-destructive remote sampling methods and the appearance of portable instrumentation for the examination has permitted to preserve the study object in a safe way considering that in most cases they are unique specimen.

There is a wide range of analytical techniques used by scientists that can be applied to cultural heritage. In this presentation, an overview of most used techniques are presented as well as some examples of the Argentinean cultural heritage is mentioned.