

# CONSERVATION AND PHYSICOCHEMICAL STUDY OF METAL ARTIFACTS FROM THE CRUSADER PERIOD

\*

Online classes: 22 November-17 December 2021

Workshop: April-May 2022



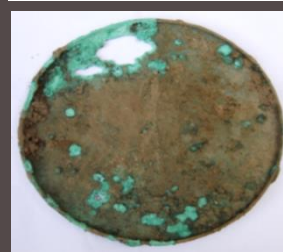
Partners in this project: Faculty of Archaeology, Leiden University; Netherlands Institute at Athens (NIA); Ephorate of Antiquities of Euboea (Chalkis); Greek Research Center/Laboratory 'NCSR Demokritos' (Athens).

## **The Online classes (2.5 ECTS) (150 €):**

During 22 November-17 December 2021, 12 online classes for the internship 'CONSERVATION AND PHYSICOCHEMICAL STUDY OF METAL ARTIFACTS FROM THE CRUSADER PERIOD' will be streamed (live).

## **The Workshop, Athens-Chalkis, GR (2.5 ECTS) (250 €):**

During one week (April-May 2022), a practical workshop for the 'CONSERVATION AND PHYSICOCHEMICAL STUDY OF METAL ARTIFACTS FROM THE CRUSADER PERIOD' will take place at Athens and Chalkis in Greece.



These online classes in combination with the practical workshop provide an unique opportunity for BA, MA, RMA and PhD students to gain more knowledge and hands-on experience in the conservation of metal objects. In addition, an introduction of physicochemical analyses will be presented. The online courses are open to students, but the practical workshop in Athens is for max. 10 students. For these students it is obligatory to do the online classes (22 November-17 December 2021) in advance as preparation for the practical workshop in Greece (April-May 2022). All teaching will be in English. In Greece, accomodation will be provided by the Netherlands Institute at Athens (NIA).

### **Coordinator:**

**Prof. Dr. J.A.C. Vroom**, Archaeology of Medieval and Early Modern Archaeology in Eurasia, Faculty of Archaeology, Leiden University (NL).

### **Contact for information:**

Instructor: **Adamantia Panagopoulou**, [adamantiapanagopoulou@gmail.com](mailto:adamantiapanagopoulou@gmail.com)

Application: [www.nia.gr](http://www.nia.gr)

### **Application deadline:**

**19 November 2021**

All participants will receive for both the online classes and workshop:

5 ECTS, project notes & a certificate. In Greece, everything will be carried out with consideration of the acquired social distancing.

### **At the end of the course the participants will:**

- get knowledge on the exchange of goods and the use of metal objects;
- learn about shapes, types and technology of Byzantine metal objects & improve their knowledge on Byzantine and Crusader history and archaeology in Greece;
- get acquainted with the basic methods of documentation for the conservation and restoration of Byzantine metal objects;
- learn about the necessity of physicochemical analyses on metal objects.
- 3D scanning techniques in Archaeology (laser scanning, structured-light scanning, photogrammetry).