



Innovative Facility for Isotope GENERation with Efficient Ion Accelerator



Archaeological Museum of Thessaloniki

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Head of the Department of Physicochemical Research & Archaeometry

Kick-off meeting

3-4 April 2025

Thessaloniki, Greece



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Archaeological Museum of Thessaloniki

EXHIBITIONS

THE ENTIRE HISTORY OF ANCIENT MACEDONIA IN ONE MUSEUM

The permanent exhibitions of the Archaeological Museum of Thessaloniki include unique masterpieces of ancient Greek art dating from prehistoric times to late antiquity.





Archaeological Museum of Thessaloniki

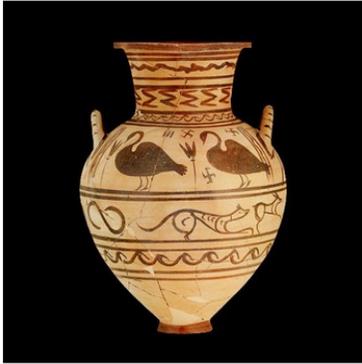
- one of the largest museums in Greece
central museum of northern Greece
- mission of AMTH:
housing, protection, documentation, study, publication,
exhibition, promotion, at national and international level,
of Heritage Artefacts
participation in Research and Educational Programs
- personnel: 54 professionals
archaeologists, curators, museologists, architects,
chemists, computer scientists, administrative staff, graphic
designers, technicians, safety-guards





PREHISTORIC MACEDONIA

5.000, 15.000, 200.000 years ago...
An exhibition about life in
Prehistoric Macedonia



TOWARDS THE BIRTH OF CITIES

From Mount Athos to Mount
Olympus in the Iron Age (1100 –
700 BC)



IN MACEDONIA FROM THE 7TH CENTURY BC UNTIL THE LATE ANTIQUITY

From the foundation of the
Macedonian kingdom in the 7th c.
BC to the Late Antiquity



THESSALONIKI, THE METROPOLIS OF MACEDONIA

The history of ancient
Thessaloniki, through its
antiquities and monuments



THE GOLD OF MACEDON

The largest collection of gold
wreaths and other precious finds
from the cemeteries of
Macedonia.



FIELD, HOUSE, GARDEN, GRAVE

An open-air exhibition inviting you
to take a stroll around the
cemeteries and residences of the

Significant exhibits

The famous Derveni Krater
& a large collection of bronze vessels

The largest collection of gold wreaths
& other gold jewelries

The Derveni papyrus
the first Greek register on the UNESCO “Memory of the World” list

The statue of Octavian Augustus
the first Roman emperor (24 BC – 14 AD)

Sarapeion
a sanctuary of the Egyptian gods in ancient Thessaloniki

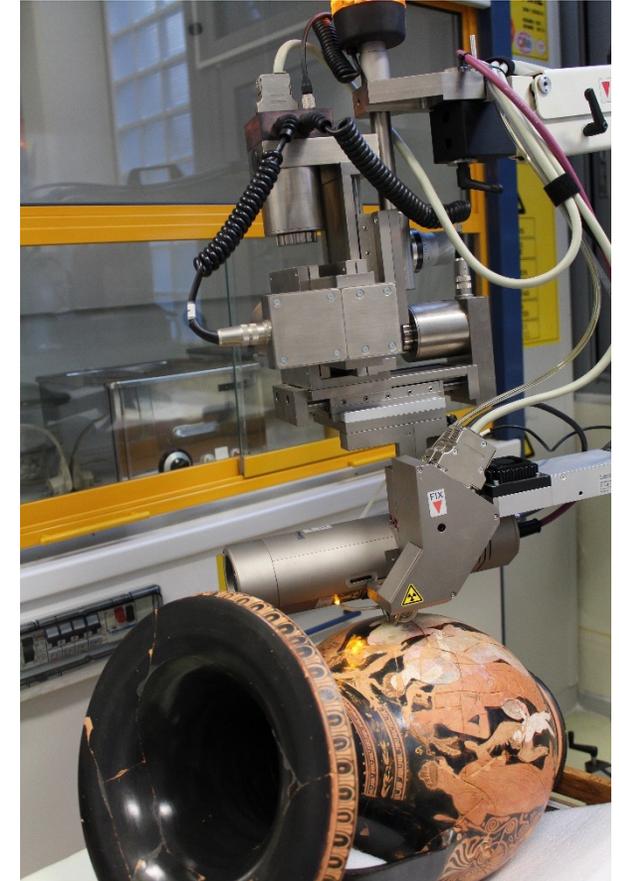


The Derveni Krater
Ancient Lete 4th cent. BC



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- ✓ **Non-invasive** analysis of ancient – cultural artefacts and complementary sampling analytical techniques
- ✓ Study of **ancient technology** (determination of chemical composition)
- ✓ Study of ancient artifacts **pathology**
- ✓ **Authentication** studies
- ✓ Supporting **conservation** – restoration program
- ✓ Archaeological **materials**: metals (gold, silver, copper alloys), pigments, pottery, inks (manuscripts), stone, glass



micro-EDXRF: identification of pigments

Main activities & competencies

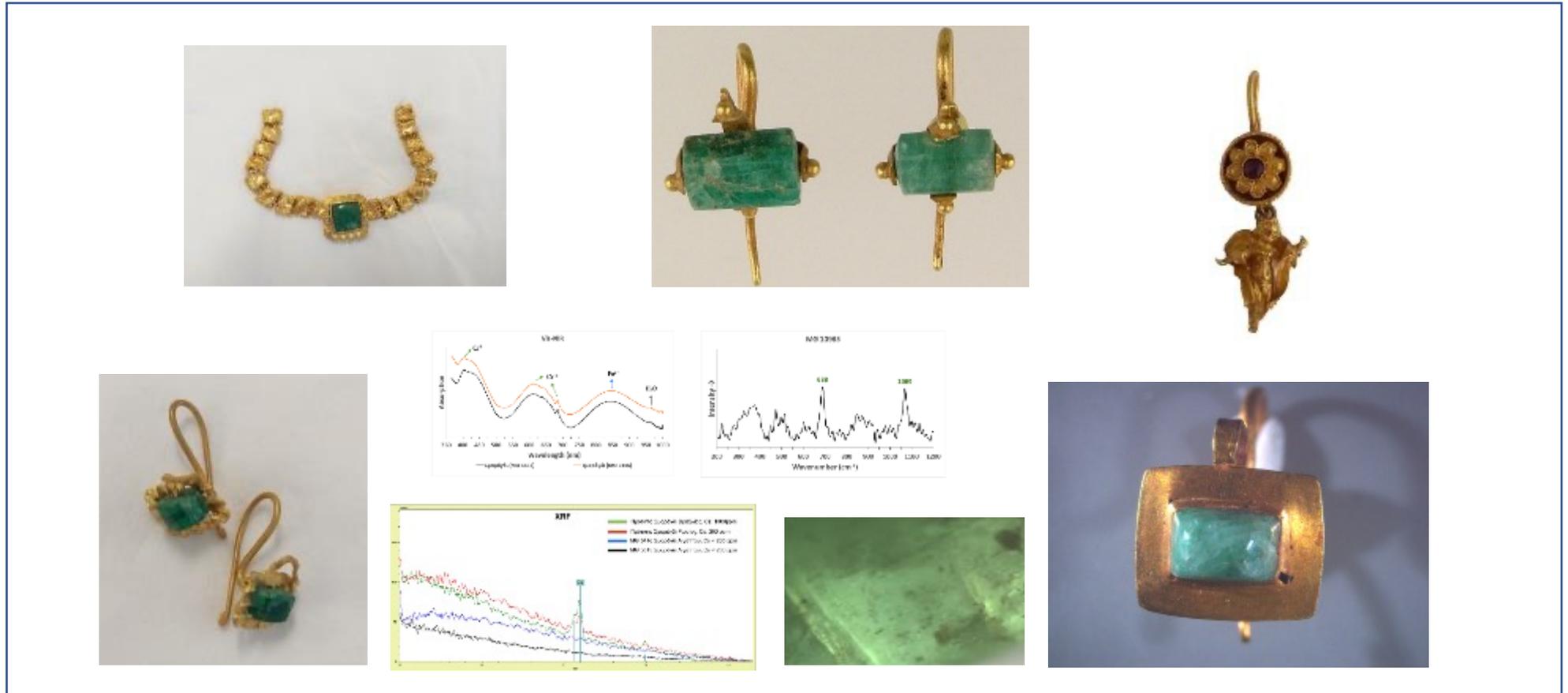


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& Archaeometry



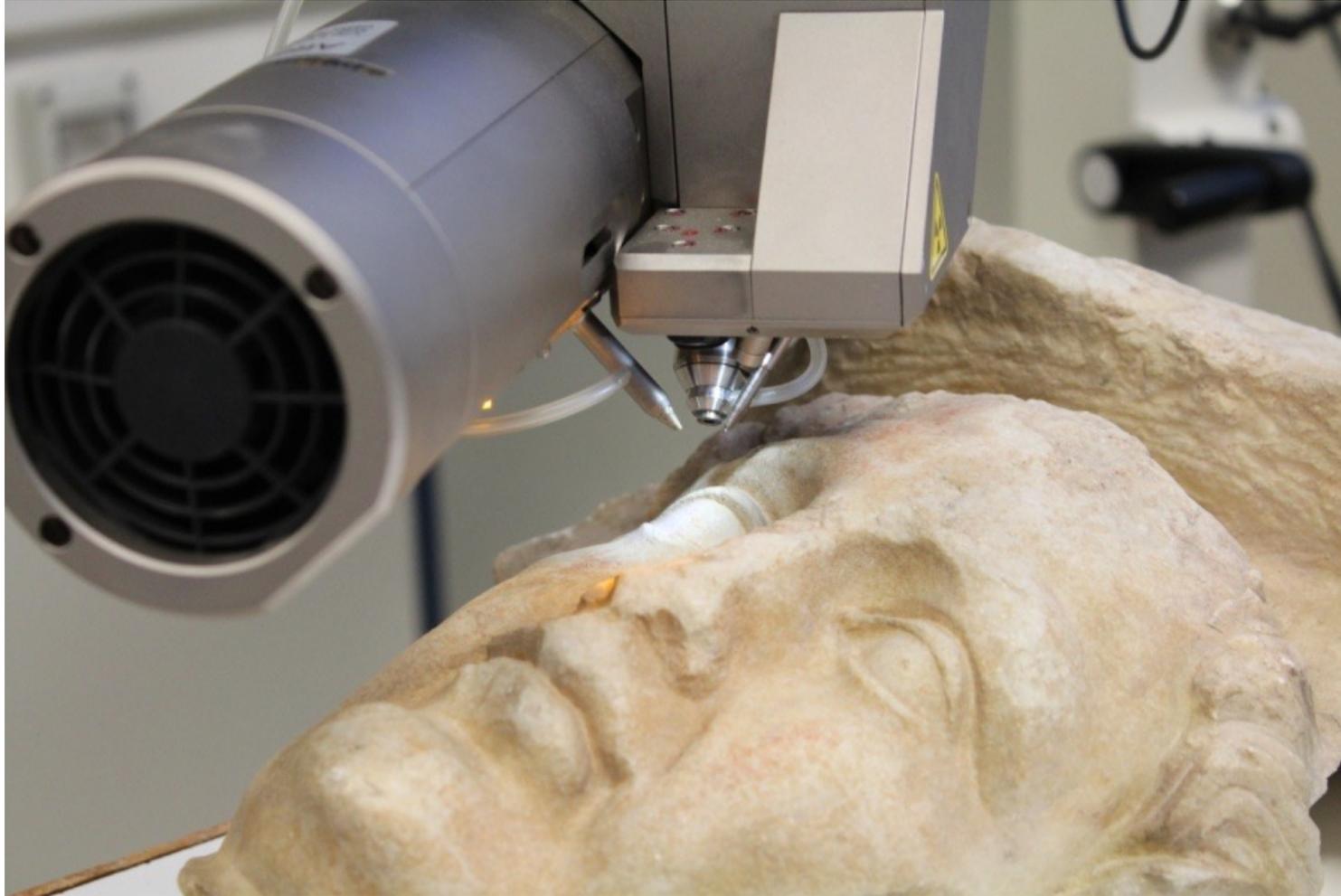
Analysis gold artefacts
(wreaths, medals, jewelries etc.)

Main activities & competencies



Analysis of gemstones

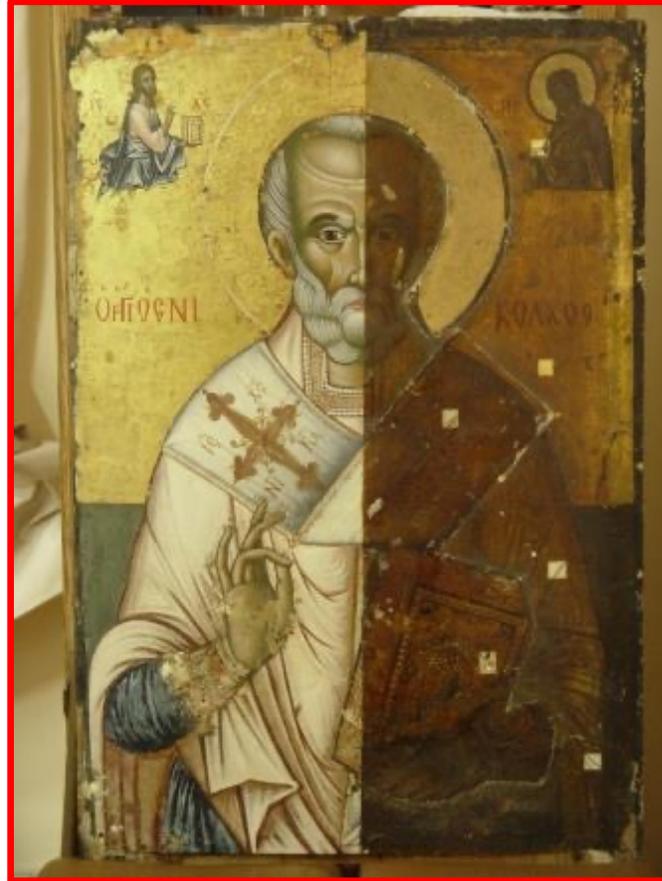
Main activities & competencies



Analysis of pigments
on stone

Main activities & competencies

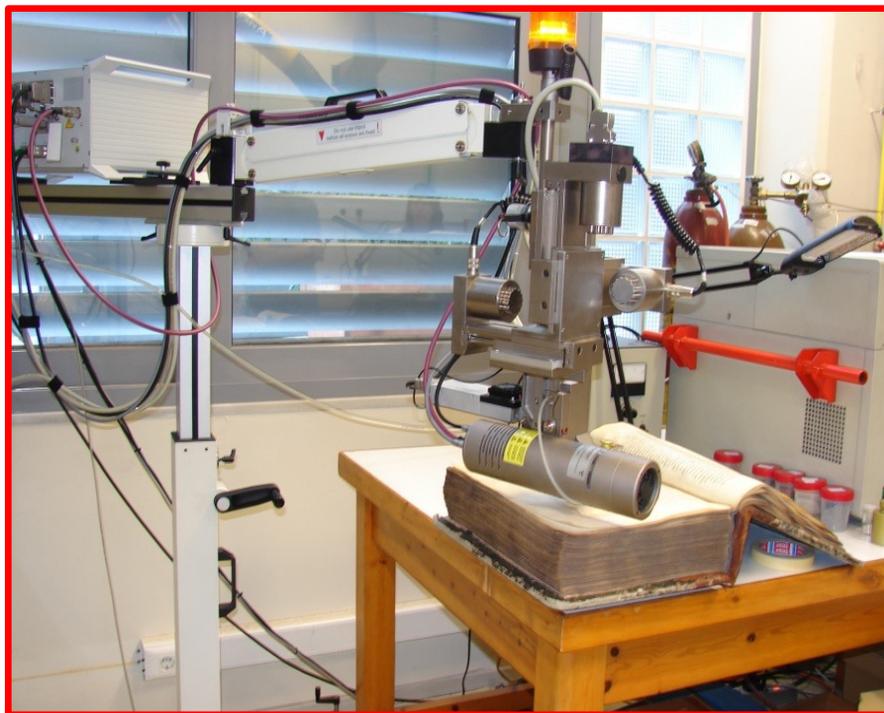
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Analysis of pigments
on paintings

Main activities & competencies

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Analysis of inks
on byzantine archives

Main activities & competencies

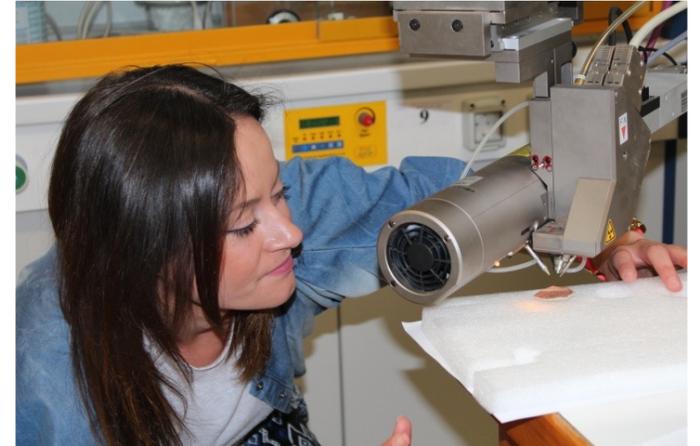
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Analysis of corrosion
on ancient artefacts

Main activities & competencies

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Open Labs - Lab courses
for Under & Post Graduate Programs
Student's internship

Main activities & competencies

Department of Physicochemical Research & Archaeometry

Conference organization – editing publications





ΑΡΧΑΙΟΛΟΓΙΚΟ ΜΟΥΣΕΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ

ΑΡΧΑΙΟ-ΜΕΤΡΩΝΤΑΣ ΤΟΝ ΠΟΛΙΤΙΣΜΟ

Ημελέτη αρχαιολογία με τη συμβολή των φυσικών επιστημών



Τετάρτη 26 Ιουνίου
Ώρα: 12:30 μ.μ.

ΠΟΡΦΥΡΑ
Η χρυσική των Βασιλέων
Από την προϊστορία μέχρι και τους υστεροβυζαντινούς χρόνους
επίσημη του Δν. Καθηγητή – Χημικού Μηχανικού
Κωάννη Καραπαναγιώτη






Σε περσική, με ελκτικό τρόπο, η συμβολή των φυσικών επιστημών στη μελέτη της πορείας και θα παρουσιαστούν νέα ιστορικά στοιχεία που καταρτίστηκαν τους μήνες που πλαισιώσαν την ιστορία της

Νίκος Μανόλης Ανδρικόπουλος

Εισόδος ελεύθερη

Main involvement in IFIGENEIA

Work Package no	WP3
WP Leader	AUTH
Deliverable no Deliverable name	D3.2 Applications on Cultural Heritage
Milestone no Milestone name	3 First versions of Apps for Cultural Heritage

- Task 3.1
- Providing samples of authentic ancient artefacts
- Application on different ancient materials (glass, ceramics, metal alloys)
- Taking advantage of:
 - The external beam of IBA:
 - Non / micro – destructiveness
 - Differentiation of the depth of the analytical information
 - Optimization of the range of the chemical elements
 - Optimization of the LOD



Dr Anastasia Gkadolou
Archaeologist
General Director AMTH



Dr Christos Katsifas
Chemist
Head of the Dept. of
Physicochemical Research
& Archaeometry - AMTH



John Nazlis
Chemist (MSc)
Dept. of
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& Archaeometry - AMTH