CONSERVATION AND RESTORATION OF ANCIENT POTTERY AND GLASS – MACEDONIA & BULGARIA

Course ID: ARCH XL 159
June 3–July 8, 2017

DIRECTORS:
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Dr. Silvana Blazhevska – Archaeologist, Director of National Institution Stobi, Republic of Macedonia;

PROJECT COORDINATORS:
Ms. Angela Pencheva – Project coordinator (Stobi), Balkan Heritage Foundation Director, PhD candidate at Humboldt University, Berlin, Germany
Dr. Nayden Prahov – Project coordinator (Sozopol), Balkan Heritage Foundation, Archaeologist at National Archaeological institute with Museum, Bulgarian Academy of Sciences

INTRODUCTION
This course is mainly focused on conservation and restoration of ancient Greek and Roman pottery and gives basic introduction to treatment, conservation and restoration of glass objects.

It consists of two parts implemented in two neighboring European countries. The initial three weeks will take place at the site of Stobi, Republic of Macedonia and the final two weeks will take place at Sozopol, ancient Apollonia Pontica, Bulgaria. Stobi was an important Roman city and reached its zenith of power during the 1-3 centuries CE. Apollonia was one of the richest and most prosperous Ancient Greek colonies in the Black Sea region in Archaic, Classical and Hellenistic period.

The main goal for this program is to provide theoretical and hands-on training experience on pottery and glass conservation. It does so through the exposure of students to two different site labs, enabling them to evaluate and appreciate similarities and differences in conservation problems, approaches, methods, technique, design and material choice applied on different types of artefacts. This field school supports the archaeological efforts in both sites and will integrate conservation efforts into the larger scheme of broad archaeological project.
The pottery and the glass vessels for the workshop in Republic of Macedonia comes from the excavations of the Roman and Early Byzantine city of Stobi and is provided by the National Institution Stobi (NIS). These are mainly locally produced Roman and Late Roman ceramic shapes. The pottery for the workshop in Bulgaria is part of the collection of the Archaeological Museum – Sozopol, Bulgaria and originates from cult/funeral fireplaces in the ancient Greek and Hellenistic necropolis of Apollonia Pontica (6th – 2nd century BCE) which is one of the largest ancient Greek necropoleis ever excavated. The represented shapes are black glazed drinking vessels and plates with local or imported origin.

Students begin their training with replicas of ancient vessels and then progress to originals once they reach an acceptable level of skill, accuracy and precision. Most students will be able to master conservation and restoration efforts within the course of this field school and expect to complete work on 2-5 artifacts by the end of the program, depending on the initial state of objects’ conservation, the necessity of conservation treatment and the individual performance of the student.

Upon successful completion of the course, students will be prepared to take part in projects for conservation, restoration and documentation of archaeological pottery, under the supervision of professional conservators and restorers.

ACADEMIC CREDIT UNITS & TRANSCRIPTS

Credit Units: Attending students will be awarded 12 quarter credit units (equivalent to 8 semester units) through our academic partner, UCLA Extension. UCLA is a top ranked research university and its archaeology program is ranked amongst the best in the country. All IFR field schools instructors and curricula are approved both by the corresponding academic department and the Academic Senate at UCLA. This field school provides a minimum of 192 direct instructional hours.

Transcripts: Transcripts are available through UCLA UnEX and instructions for ordering transcripts may be found at http://bit.ly/2bD0Z3E. Grades will be posted and transcript available usually within six weeks after the end of this field school. All IFR field schools are designated XL classes – courses that are equivalent to undergraduate courses offered by the UCLA regular session. All XL courses are transferable for unit and subject credit toward the Bachelor’s Degree at all campuses of the UC and CSU systems. Classes numbered 100 to 199 are considered upper division (junior/senior). For more information, go to http://bit.ly/2bJAmq.

UCLA students: Students can take classes through UCLA Extension to complete requirements. However certain considerations must be taken into account. For more information, go to http://bit.ly/2bJWeHK.

Credit Units Transfer: Most universities accept UCLA credit units – there are very few exceptions. Students are strongly encouraged to discuss the transferability of the credit units with school officials BEFORE attending the field school.

COURSE OBJECTIVES

The objective of this program is to prepare students to take part in archaeological ceramics conservation and restoration activities. The activities in this program will include the following:

1. Introduction to fundamental ethical principles of conservation and restoration. These include among others the principles of reversibility, compatibility, retreatability and authenticity, and the principle of minimal intervention. Detailed documentation process and basic requirements for conservation materials are also discussed.

2. Introduction to the aesthetic principles of conservation: partial or complete restoration of the original appearance of the object without eliminating the impact of time on it, preserving the artistic values of the artefact, hiding or pointing out restored parts.
3. Presentation of the main causes for deterioration, especially upon excavation.
4. Introduction to preliminary pottery and glass analyses and condition assessment of the finds: observations under low and high magnification, sampling and samples, instrumental analyses. Results as a base for informed conservation treatment proposal.
5. Training through practical exercises: basic conservation and restoration activities: damage assessment and classification, conservation plan, mechanical and chemical cleaning, desalination and consolidation of pottery shards, reassembling fragmented objects, in-filling, retouching, and detailed documentation.
6. Introduction to conservation documentation, including its visual, historical, and technical aspects as well as conservation treatment performed on the object.
7. Introduction to post conservation monitoring process.
8. Introduction to technological characteristics and technology of ancient pottery and glass and their changes through time.
9. To prepare students to create, organize and maintain artefacts and conservation databases.
10. Collection and keeping both data and metadata about objects and their documentation safe.
11. Introduction to advanced photo documentation techniques, such as: Reflectance Transformation Imaging and Colour Decorrelation Stretching.
12. Introduction to the archaeological and historical contexts of the restored materials – sites, cultures, research problems, etc.
13. Introduction to health and safety requirements in a conservation lab.

**DISCLAIMER – PLEASE READ CAREFULLY**

You should be aware that conditions on the Balkans are different than those you experience in your home, dorms or college town. Note that South European (subtropical) climate dominates in the region, making summers hot (30-40°C). Rainy and chilly days in this season are rare but not unheard of.

If you have any medical concerns, please consult your doctor. For all other concerns, please consult with the project director – as appropriate.

**COURSE SCHEDULE**

Both workshops’ schedules consist of four modules:

**MODULE I** - Theoretical module (45 hours for both workshops). Covers the following topics:

1. Greek, Roman and Late Roman pottery, and glass history and technology. This will include production technology, physical and chemical properties, shape & design.
2. Conservation documentation. Lectures focusing on visual documentation, including regular photography, software manipulation (Corel Draw) and data & metadata documentation of visual record, technical photography, reflectance transformation imaging (RTI), color decorrelation stretching.
3. Analytical methods used to determine the chemical composition and the physical properties of artifacts, the damaging processes influencing the artifacts’ condition upon excavation
4. Preventive conservation treatment in situ and subsequent lab conservation treatment of retrieved objects
5. Lectures focusing on the historical and archaeological context of the treated materials.

**MODULE II** – Practicum (app. 130 hours for both workshops). Consists of four components:

1. Workshops dedicated to materials and production, which include the full production of replica vessels and explore the challenges related to production technology as practiced in the past.
2. Workshops dedicated to pottery and glass photographic and graphic technical documentation.
3. Workshops dedicated to ceramics and glass conservation.
4. Workshops dedicated, reflectance transformation imaging (RTI), colour decorrelation stretching.

**MODULE III** - Excursions accompanied by lectures, presentations and study visits to sites of historical/archaeological significance such as the town of Bitola (Archaeological Museum) and the Heraclea Lyncestis excavation site, the town of Ohrid (Ancient Lychnidos, UNESCO World Heritage Site) in Republic of Macedonia, Pella and Vergina (UNESCO World Heritage Sites) in Greece, the Bulgarian capital Sofia and the ancient town of Nessebar (UNESCO World Heritage Site) on the Black Sea Coast.

**MODULE IV** – Homework (est. 10 hours for both projects) will be assigned to all students, which will consist of editing and processing students' conservation documentation (journal, conservation forms, drawings, photos, etc.) and preparing presentations and reports.

<table>
<thead>
<tr>
<th>Date</th>
<th>Morning</th>
<th>Afternoon</th>
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<tbody>
<tr>
<td>Day 1</td>
<td></td>
<td>- Meeting students at Skopje airport. Transfer to Stobi.</td>
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<tr>
<td>3 June</td>
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<td>- Traditional Macedonian welcome dinner</td>
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<tr>
<td>Day 2</td>
<td>Orientation. Presentation of National Institution Stobi, Balkan Heritage Foundation – Institute for Field Research Joint Program, the Field School agenda and goals, the team and participants, some practicalities.</td>
<td>Lecture: From the Field to Storage: review of basic methods for recovering, “first aid” consolidation in situ, cleaning, lifting and packing for transportation, , labeling, documenting and storing ceramic and glass artefacts</td>
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<tr>
<td>4 June</td>
<td>Lecture: History of Stobi and Macedonia in Roman and Late Roman period (2nd century BCE – 6th century CE)</td>
<td>Stobi sightseeing tour</td>
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<tr>
<td>Day 3</td>
<td>Lecture: Material Science and Technology. Clay properties and changes during firing.</td>
<td>Lecture: Deterioration of ceramics objects. Soluble salts, porosity, firing; choosing the most appropriate conservation treatment for each object</td>
</tr>
<tr>
<td>5 June</td>
<td>Lecture &amp; Workshop: typology and chronology of Roman and Late Roman pottery with examples from Stobi. Sorting and selecting different types of Roman and Late Roman pottery shards</td>
<td>Workshop: Cleaning and sorting of Roman and Late Roman pottery shards</td>
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<td>6 June</td>
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**Lecture:** Required documentation for pottery and glass conservation.

- Graphic documentation
- Graphic reconstruction
- Photographing
- Conservation journal
- Conservation history list
- List of used materials and safety data sheets

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<thead>
<tr>
<th>Day 5</th>
<th>Lecture &amp; Workshop:</th>
<th>Workshop:</th>
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<tr>
<td>7 June</td>
<td>Introduction to technical photography</td>
<td>Conservation and restoration of Roman and Late Roman Objects. Preliminary assembly of fragmented objects – methods of temporary fixing of the loose parts. Final assembly – fitting the fragments together, application of adhesive and cleaning of the excess adhesive around the joints. Methods of temporary mechanical stabilization during adhesive setting.</td>
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<tr>
<th>Day 6</th>
<th>Workshop:</th>
<th>Lecture &amp; Workshop:</th>
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<tr>
<th>Day 7</th>
<th>Workshop:</th>
<th>Lecture &amp; Workshop:</th>
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<tr>
<th>Day 8</th>
<th>Excursion:</th>
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<tr>
<td>Excursion: Guided visit to Bitola and the ancient city of Heraclea Lyncestis</td>
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</table>
| Day  | Workshop: Conservation and restoration of Roman and Late Roman Vessels.  
Conservation treatment of original objects. Continued (the exact activities depend on the number of assigned objects and the complexity of each object; as well as on the individual progress of each participant. All activities are closely supervised by and discussed with professional conservator) | Workshop: Conservation and restoration of Roman and Late Roman Vessels.  
Conservation treatment of original vessels. Continuation: refining the plaster, cleaning the vessel from extra plaster, consolidation |
| Day  | Workshop: Conservation and restoration of Roman and Late Roman Objects  
Conservation treatment of original objects. Continued (the exact activities depend on the number of assigned objects and the complexity of each object; as well as on the individual progress of each participant. All activities are closely supervised by and discussed with professional conservator) | Workshop: Archaeological Documentation – Digitalization of pottery graphic documentation |
| Day  | Workshop: Conservation and restoration of Roman and Late Roman Objects.  
Conservation treatment of original objects. Continued (the exact activities depend on the number of assigned objects and the complexity of each object; as well as on the individual progress of each participant. All activities are closely supervised by and discussed with professional conservator) | Workshop: Archaeological Documentation – Digitalization of pottery graphic documentation. |
| Day  | Workshop: Conservation and restoration of Roman and Late Roman Objects.  
Final conservation treatment of original objects. Continued (the exact activities depend on the number of assigned objects and the complexity of each object; as well as on the individual progress of each participant. All activities are closely supervised by and discussed with professional conservator) | Workshop: Accomplishing the conservation documentation for the conserved vessels. |
<table>
<thead>
<tr>
<th>Day</th>
<th>June</th>
<th><strong>Preparation of power point presentation of the workshop's results.</strong></th>
<th><strong>Presentation</strong> of the Workshop results. Discussion with the instructors. Evaluation meeting and conclusion.</th>
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<tbody>
<tr>
<td>Day 14</td>
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<td><strong>Day off</strong></td>
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<tr>
<td>Day 15</td>
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<td><strong>Guided visit of Pella and Vergina (UNESCO World Heritage Site), Greece</strong></td>
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<tr>
<td>Day 16</td>
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<td><strong>Lecture. History of Pre-Roman and Roman glass technology. Chemical composition of glass.</strong></td>
<td><strong>Lecture. Basic techniques in ancient glass conservation and restoration.</strong></td>
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<td><em>Forms of natural silica, forms of natural glasses, core formed glass vessels, mosaic glass; mold formed vessels, glass blowing, free blown vessels, mold blown objects, cage cups etc.</em></td>
<td><em>Deterioration of glass, chemical deterioration, superficial disfigurement, physical damage, cleaning of glass, preliminary assembly, final assembly using medical tape, application of omega clips, application of resin, removal of the omega clips, cleaning of extra resin and adhesive, mold making (using dental silicon and rubber) application of the gap filling resin, refining the additions.</em></td>
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<tr>
<td>Day 17</td>
<td></td>
<td><strong>Workshop: Conservation and restoration of Roman and Late Roman Glass Objects.</strong></td>
<td><strong>Workshop: Conservation and restoration of Roman and Late Roman Glass Objects.</strong></td>
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<td></td>
<td></td>
<td><em>Mechanical and chemical cleaning of selected original glass shards.</em></td>
<td><em>Initial documentation of the condition of glass replicas fragments’. Assembly of fragments of Roman or Late Roman object with medical tape</em></td>
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<tr>
<td>Day 18</td>
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<td><strong>Workshop: Conservation and restoration of Roman and Late Roman Glass Objects.</strong></td>
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<td><em>Final assembly, application of omega clips.</em></td>
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<tr>
<td>Day 19</td>
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<td><strong>Workshop: Conservation and restoration of Roman and Late Roman Glass Objects.</strong></td>
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<td><em>Application of resin on the cracks. Molds making for gap filling of glass vessels.</em></td>
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<tr>
<td>Day</td>
<td>Workshop</td>
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<tr>
<td>20 June</td>
<td><strong>Workshop</strong>: Conservation and restoration of Roman and Late Roman Glass</td>
<td><strong>Workshop</strong>: Finishing touches to the conservation and documentation of</td>
<td>Farewell dinner and party</td>
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<tr>
<td>22 June</td>
<td>Objects. *Removal of the omega clips, cleaning from extra resin and</td>
<td>the treated objects.</td>
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<td></td>
<td>adhesive.*</td>
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<tr>
<td>21 June</td>
<td><strong>Preparation of power point presentation of the workshop’s results.</strong></td>
<td><strong>Trip from Stobi to Sofia.</strong></td>
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<tr>
<td>23 June</td>
<td><strong>Presentation</strong> of the Workshop Results and Evaluations</td>
<td><strong>Arrival and check-in.</strong></td>
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<tr>
<td>22 June</td>
<td>Sofia <em>sightseeing tour</em>. Trip from Sofia to Sozopol. Arrival and check-in.</td>
<td><strong>Sozopol Old Town sightseeing and orientation walk</strong></td>
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<td>24 June</td>
<td><strong>Orientation.</strong> Presentation of the workshop agenda and goals, the new</td>
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<td>team and the participants, some practicalities, etc.</td>
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<tr>
<td>23 June</td>
<td><strong>Lecture</strong>: Conservation of ancient Greek pottery – part I. *Conservation *</td>
<td><strong>Lecture</strong>: Technology, typology and chronology of ancient Greek and</td>
<td><strong>Visit to Sozopol Archaeological Museum.</strong></td>
</tr>
<tr>
<td>26 June</td>
<td>of artifacts “<em>in situ</em>. Properties and deterioration of the pottery</td>
<td>Hellenistic Pottery with examples from Apollonia Pontica.*</td>
<td><strong>Workshop</strong>: Analyzing, sorting out and selecting of ancient pottery</td>
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<tr>
<td></td>
<td>from Apollonia Pontica, V-VI century BCE. Conservation strategy and</td>
<td></td>
<td>shards for conservation and documentation.</td>
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<td></td>
<td>methods).</td>
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<tr>
<td>24 June</td>
<td><strong>Lecture</strong>: Conservation of ancient Greek Pottery – part II. *Analytical *</td>
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<tr>
<td>27 June</td>
<td>methods used to determine the physical and the chemical parameters and</td>
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<td></td>
<td>properties of ceramic artifacts, as well as the changes occurred in the</td>
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<td>materials due to environmental influences</td>
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<tr>
<td>25 June</td>
<td><strong>Workshop</strong>: Conservation of ancient Greek pottery. *Preliminary study</td>
<td><strong>Lecture</strong>: History of the Greek colonization of the Western Black Sea</td>
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<tr>
<td>28 June</td>
<td>of the objects; condition assessment and documentation</td>
<td>coast (seventh - fifth century BCE)</td>
<td></td>
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<tr>
<td>26 June</td>
<td><strong>Workshop</strong>: Conservation of ancient Greek pottery. *Initial treatment</td>
<td><strong>Lecture</strong>: History of Apollonia Pontica in Antiquity (seventh century</td>
<td></td>
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<tr>
<td>29 June</td>
<td>– mechanical removal of deposits from the ceramic surface</td>
<td>BCE - sixth century CE)</td>
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<tr>
<td>27 June</td>
<td><strong>Workshop</strong>: Conservation of ancient Greek pottery</td>
<td><strong>Lecture</strong>: Ancient Greek cemeteries and funeral rites with examples</td>
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<tr>
<td>30 June</td>
<td><em>Chemical removal of deposits from the</em></td>
<td>from the Western Black Sea coast</td>
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</tbody>
</table>
| June | ceramic surface  
Problems caused by the presence of salts.  
Desalination of the ceramic artifacts – necessity and specifics of the desalination of ceramics from marine areas; limits (theory and practice). |
<table>
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<tbody>
<tr>
<td>Day 28 30 June</td>
<td>Excursion to Nessebar (UNESCO World Heritage Site)</td>
</tr>
<tr>
<td>Day 29 1 July</td>
<td>Day off</td>
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</tbody>
</table>
| Day 30 2 July | **Workshop:** Conservation of ancient Greek pottery  
Consolidation of the ceramic body.  
| Day 30 2 July | **Lecture & Workshop:** Reflectance Transformation Imaging (Capture) |
| Day 31 3 July | **Workshop:** Conservation of ancient Greek pottery  
| Day 31 3 July | **Lecture & Workshop:** Reflectance Transformation Imaging (Processing) |
| Day 32 4 July | **Workshop:** Conservation of ancient Greek pottery  
Reconstruction of missing parts of the ceramic body. Different materials and their properties. Requirements, compatibility. |
| Day 32 4 July | **Workshop:** Reflectance Transformation Imaging (Capture & Processing). |
| Day 33 5 July | **Workshop:** Conservation of ancient Greek pottery  
Reconstruction of missing parts of the ceramic body. Different materials and their properties. |
| Day 33 5 July | **Workshop:** Colour Decorrelation Stretching |
| Day 34 6 July | **Workshop:** Conservation of ancient Greek pottery  
Retouching of the reconstructed parts.  
Exam |
| Day 34 6 July | **Lecture** Ethics and aesthetics in the conservation of archaeological ceramics  
**Workshop:** Conservation and restoration of ancient Greek pottery. Finalizing activities. |
| Day 35 | Submission of the treated vessels at the Museum of Archaeology - Sozopol  
- Free time |
7 July | **Presentation** of the Workshop results. Evaluation meeting and Conclusion | - Dinner and farewell party

Day 36 8 July | Departure |  

The course structure may be subject to change on the director’s discretion.

**Typical work day**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>7:00 – 8:00</td>
<td>- Breakfast</td>
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<tr>
<td>8:30 - 13:00 / 13:30</td>
<td>- Workshop for Conservation and Restoration of Ancient Pottery/Glass</td>
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<tr>
<td>13:30 - 15:30 / 17:00</td>
<td>- Lunch and siesta</td>
</tr>
<tr>
<td>15:30/17:00 – 19:00/19:30</td>
<td>- Lectures and workshops</td>
</tr>
<tr>
<td>19:30/20.00 – 21:00</td>
<td>- Dinner</td>
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</tbody>
</table>

**GRADING MATRIX**

Students will be graded based on their work as follows.

<table>
<thead>
<tr>
<th>% of Grade</th>
<th>Activity</th>
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<tbody>
<tr>
<td>20%</td>
<td>Roman and Late Roman Pottery Conservation</td>
</tr>
<tr>
<td>20%</td>
<td>Ancient Greek Pottery Conservation</td>
</tr>
<tr>
<td>15%</td>
<td>Conservation of ancient Glass</td>
</tr>
<tr>
<td>15%</td>
<td>Technical drawing of pottery &amp; digitizing of the graphic documentation</td>
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<tr>
<td>10%</td>
<td>RTI documentation</td>
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<tr>
<td>20%</td>
<td>Final Exam</td>
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</tbody>
</table>

Students’ performance in the both parts of the field school (in Macedonia and in Bulgaria) will be evaluated separately. Grades and the performance will be communicated by the both teams under the Balkan Heritage Foundation supervision.

**ATTENDANCE POLICY**

The required minimum attendance for the successful completion of the field school is 85% of the course hours. Any significant delay or early departure from an activity will be calculated as an absence from the activity. An acceptable number of absences for medical or other personal reasons will not be taken into account if the student catches up on the field school study plan through additional readings, homework or tutorials with program staff members.

**PREREQUISITES**

None. This is hands-on, experiential learning and students will work in the lab and learn how to conduct conservation, restoration and documentation work. These activities involve patience, careful work and concentration, and thus require a measure of acceptance that is not found in the typical university learning environment. Students are required to come equipped with sufficient excitement and the understanding that conservation and restoration endeavor requires hard work, patience, discipline, close concentration and attention to detail.
The Conservation & Restoration Field School will host students and professionals from all over the world. With such an international team, it is vital that all students respect the IFR code of conduct, each other’s cultures, and local organizational, social and cultural rules and laws.

**EQUIPMENT LIST**

- Work clothes
- A set of walking and hiking shoes.
- Clothing suitable for outdoor activities (consider weather conditions from hot and sunny to rainy and chilly).
- Wide brim hat for the study trips.
- Medication - It is not necessary to bring over-the-counter medicine from your country since you can buy all common types in Bulgaria (e.g. aspirin and anti-insecticides, sunscreen/tanning lotion, etc). It is recommended that you bring your individual prescription medicines, if any.
- Don’t forget to bring a converter to an EU type electricity wall-plug if needed.
- It is recommended that participants bring PCs having at least 5 GB free disk space and a mouse. Operation system recommended: Windows.
- A good attitude for work, fun, study and discoveries.

**ACCOMMODATION**

**In Stobi (Republic of Macedonia):** Participants will stay at renovated air-conditioned cabins at the archaeological base next to the ancient ruins of Stobi. Students will be housed in rooms with 2-3 beds each. Each cabin has four bedrooms, a living room and two bathrooms with showers. A washing machine and Wi-Fi are available for free.

The closest village to Stobi is Gradsko (4 km), where there are a couple of food & beverage shops, a pharmacy, an ATM and a medical office. The closest supermarkets, drug-stores, pharmacies, banks with ATM and hospitals are in the towns of Negotino, 12 km away, Kavadartsi, 17 km away, and Veles, 23 km away.

**In Sozopol (Bulgaria):** Accommodation will be either at the Dom Mladenovi guest house ([www.dommladenovi-sozopol.com](http://www.dommladenovi-sozopol.com)) or at the VMK Military Club, both of which have comfortable rooms with private bathrooms, air-conditioning, refrigerators, TV and Internet. The hotels are located close to the town beaches, the Old Town Quarter, the Archaeological Museum and the archaeological labs (10-20 minute walks).

Staying an extra day cost 30 USD. Single rooms are available upon request for an additional fee of 125 USD per week (*The prices may slightly vary due to the USD rate fluctuations*).

**MEALS**

Three meals (fresh, homemade food) per day are covered by the tuition fee. Meals, except for lunch packages during the excursion, usually take place at the field house premises in Stobi and in a family tavern in Sozopol. This field school can accommodate vegetarians, vegans and individuals with lactose-intolerance diets. Kosher and gluten-free restrictions are impossible to accommodate in these locations.

**TRAVEL, MEETING POINT/TIME & DEPARTURE**

**Arrival:** Students will be met by staff members on June 2 at 5:00pm at the Skopje International Airport (SKP). Meeting point is at the arrival area. Look for staff members holding a “Balkan Heritage” sign. From the airport, students will be transferred to the field house at Stobi. The trip takes approximately 1.5 hours but depends on the traffic. It is recommended to exchange/withdraw some Macedonian Denars and buy a bottle of water and visit the restroom before the trip.
If you missed your connection or your flight was delayed/canceled, call, text or email the project staff (email: bhfs.admissions@gmail.com). Local contact information will be provided to enrolled students.

**Transfer from Stobi to Apollonia:** Students will be transported from Stobi to Sozopol by car/van/minibus with an overnight stay in Sofia. Dorm based hostel accommodation in Sofia is covered by the admission fee. Private double and single rooms are available upon request for an extra fee.

**Departure:** This field school ends in Sozopol. Students may continue onward travel or return home on July 8. The closest airport is in Burgas, approximately 1 hour by car or bus. Other optional airports are those in Varna (3-4 hours), Sofia (5-6 hours) or Plovdiv (4-5 hours). All airports may be reached by bus or by organized transfers. Students are responsible for their travel from Sozopol to the airport.

**VISA REQUIREMENTS**

Citizens of EU, EEA, USA, Canada, Japan, Republic of Korea, Australia and New Zealand **do not need a visa** to visit Bulgaria and Macedonia for up to 90 days.

Citizens of all other countries may need a visa. The Balkan Heritage Foundation can send an official invitation letter that should be used at the relevant embassy to secure a visa to the program.

Note that if you plan to visit Turkey during your stay in the Balkans you will need a visa. The Turkish government facilitates the process for tourists by providing the option for obtaining an e-visa at https://www.evisa.gov.tr/en/.

For more information about border crossing visit the Balkan Heritage Field School web site at http://www.bhfieldschool.org/countries/macedonia and http://www.bhfieldschool.org/countries/bulgaria and http://www.bhfieldschool.org/information/visa-help and the links provided there.

**HEALTH AND SAFETY**

Safety and health orientation will take place at the beginning of the program. Stobi’s neighboring towns Negotino and Kavadartsi (12/17 km away) and Sozopol offer medical care, first aid and pharmacies. Good personal hygiene and relaxation after a day’s hard work are good preventative for the summer flue.

**PRACTICAL INFORMATION**

**Macedonian dialing code:** +389

**Bulgarian dialing code:** +359

**Time Difference in Macedonia** (Summer time): UTC/GMT +1 hours (April through September)

**Time Difference in Bulgaria** (Summer time): UTC/GMT +2 hours (April through September)

**Measure units:** degree Celsius (°C), meter (m.), gram (gr.), liter (l)

**Money/Banks/Credit Cards:**

The Bulgarian currency is the **Bulgarian LEV (BGN).** Since 1997, the Bulgarian LEV has been pegged to the EURO at the exchange rate of 1 euro = 1.955 lev (usually sold for 1.94 lev). Bulgarian banks accept all credit cards and sometimes travelers’ cheques. Usually banks open at 8.00-8.30 am and close at 17.00-18.00 pm. They work from Monday to Friday. Shopping malls, supermarkets and many shops in Sofia and/or bigger towns and resorts will also accept credit cards. This is not valid for the smaller “domestic” shops throughout the country where the only way of payment is cash. You can see Bulgarian notes and coins in circulation at:

http://www.bnb.bg/NotesAndCoins/NACNotesCurrency/index.htm?toLang=_EN
The Macedonian currency is the **Macedonian DENAR (MKD)**.

Macedonian banks accept all credit cards and travelers' cheques. Usually banks are open from 8.00 a.m. to 6 p.m. from Monday to Friday and from 8.00 a.m. to noon on Saturday.

**You can see Macedonian notes and coins in circulation at:**

[www.nbrm.mk/?ItemID=C2B15406ABC3BC46B2525F66092FB01D](www.nbrm.mk/?ItemID=C2B15406ABC3BC46B2525F66092FB01D)

In both countries you cannot pay in Euros or other foreign currency except in casinos and big hotels (where the exchange rate is really unfair!)

The exchange of foreign currencies is practiced not only by banks but also by numerous exchange offices. **NB!** Most of them don’t collect commission fee and have acceptable exchange rates (+/ - 0.5-1,5% of the official rate). However, those located in shopping areas of big cities, resorts, railway stations, airports etc. can overcharge you variable amounts. Ask in advance how much money you will get!

ATMs are available all over both countries, and POS-terminals are in most bank offices.

If you plan to use your credit/debit card, please inform your bank on your intention before departure! Otherwise it is very possible that your bank will block your account/ card for security reasons when you try to use it abroad! Unblocking your card when abroad may cost you lots of phone calls and money.

**Electricity**

The electricity power in the both countries is stable at 220 - Volts A.C. (50 Hertz). Don’t forget to bring a voltage converter if necessary!

Outlets generally accept 1 type of plug: Two round pins. If your appliances plug has a different shape, you may need a plug adapter.

**Emergency in Macedonia**

National emergency number is **112**

Police: **192**

Fire brigade: **193**

Ambulance: **194**

Road assistance: **196**

**Emergency in Bulgaria**

National emergency number is **112**

**REQUIRED READINGS**

PDF files of all mandatory readings will be provided to enrolled students via shared Dropbox folders.


Cherneva, D. Archaeological glass from a mound in Pamuklia (Bulgaria), 1st-2nd century AD: Identification, damage phenomena and conservation, Poster, 17th Triennial Conference ICOM-CC, 2014 Melbourne, Australia.


RECOMMENDED READINGS AND WEB SITES


Boardman, J. - Athenian Red Figure Vases: the Classical Period (Thames & Hudson, 1989).

Boardman, J. - Athenian Red Figure Vases: the Archaic Period (Thames & Hudson, 1975).


Assembling an Archival Marking Kit for Paleontological Specimens


Society for Historical Archaeology. 2006. Conservation FAQ’s


WEB SITES

- National Park Service. 2001 NPS Museum Handbook -there are general sections that discuss packing and shipping and then there are appendices on specific materials. Each section is available as a PDF that can be downloaded https://www.nps.gov/museum/publications/MHI/mushbkl.html