

UnderTheLandscape
Hands-on Workshop
6-17 September 2021

We thank all those who helped turning this idea from vision into reality and those who support our vision and projects.

BOULOUKI - ITINERANT WORKSHOP
ON TRADITIONAL BUILDING TECHNIQUES

boulouki.org Boulouki Boulouki info@boulouki.org

IN PARTNERSHIP WITH

MUNICIPALITY OF THERA & THERASIA

IN COLLABORATION WITH

DEPARTMENT OF ARCHITECTURE

A.S.F.A.

N.T.U.A. BUILDING MATERIAL LAB

H.S.G.M. 'LITHOS' LAB

EPHORATE OF ANTIQUITIES OF CYCLADES

UNDER THE AEGIS OF

United Nations Educational, Scientific and Cultural Organization

Hellenic National Commission for UNESCO

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DETAILED PROGRAMME OF THE HANDS-ON WORKSHOP

Monday 06/09

08:00 - 10:00 Welcome of the participants and tour around the settlements of Manolas and Agrilia

10:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar I: Hands-on practice in Agrilia

19:00 - 20:00 Seminar I: An Imperial Landscape | Walk and Discussion in Agrilia

Tuesday 07/09

08:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar I: Hands-on practice in Agrilia

19:00 - 20:00 Seminar I: Dwelling and ecological restoration | Walk and Discussion at an agricultural infrastructure in Therasia

Wednesday 08/09

08:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar I: Hands-on practice in Agrilia

19:00 - 20:00 Seminar II: Presentation in the courtyard of the Church of the Presentation of Holy Mary in Agrilia "*Traditional ways of water management in arid lands: from the castellations of Thera to the recent pre-industrial past of Therasia*"
Katerina Ritzouli, Dr. Architect, Aristotle University of Thessaloniki (AUTH)

! Practical exercise

¬ *Participants of the first direction (Traditional Building Techniques) will work in Agrilia.*

¬ *Participants of the second direction (Modern Sculpture) will work at the Monastery of the Assumption.*

Thursday 10/09

08:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar II: Hands-on practice in Agrilia

19:00 - 19:30 Seminar II: Presentations in the courtyard of the Church of the Presentation of Holy Mary in Agrilia *"The organization of space in the underground traditional settlement of Agrilia on the island of Therasia"*

Dr. Alkistis Daniil, AUTH

19:30 – 20:00 "*Building technology in the traditional architecture of Therasia*"

Olga Molida, *Civil engineer MSc* | **Marianna Nassi**, *Architect MSc*

Friday 10/09

08:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar II: Hands-on practice in Agrilia

19:00 - 20:00 Seminar II: Presentations from the participants' teams in Agrilia

Saturday 11/09

Lectures and public dialogue in the courtyard of the Church of the Presentation of Holy Mary in Agrilia.

09:00 "*Timeless island cultures: the case of Therasia*"
Klairi Palyvou, *Professor Emeritus of History of Architecture*, Aristotle University of Thessaloniki

09:30 "*The early urban settlement at the site of Koimisi in Therasia*"
Iris Tzachili, *Professor Emeritus of Prehistoric Archaeology*, University of Athens, University of Crete

10:00 *"Roman 'scientia' of mortars with tephra aggregates - Similarities with Therasia and materials science perspectives"*
Marie Jackson, *Associate Professor*, University of Utah, USA

11:00 "*Narratives of Salt and Tephra: from the lagoon of Missolonghi to the volcanic complex of Santorini*"
Erifili Veneri, *Dr. Artist ASFA* and
Naira Stergiou, *Dr. Artist ASFA*

18:30 *"How do we build today in Thera and Therasia?"*
Open discussion on issues related to the management of the cultural heritage of Thera and Therasia with the participation of residents and local stakeholders.

Sunday 12/09

09:30 Geological tour around the Santorini caldera, guided by Dr. Geologist HSGME, **Georgios Vougioukalakis**

Monday 13/09

08:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar III: Hands-on practice in Agrilia

19:00 - 20:00 Seminar III: Presentation in the courtyard of the Church of the Presentation of Holy Mary in Agrilia "*Materials Research 'Under the Landscape'* "
Nikiforos Meimaroglou, *MSc Civil Engineer, PhD Candidate NTUA*
Ntoutsi Ioanna, *MSc Chemical Engineering, PhD Ionian University*
Panagiotis Kostoulas, *MSc Architectural Engineer*

Tuesday 14/09

08:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar III: Hands-on practice in Agrilia

19:00 - 20:00 Seminar III: Presentation in the courtyard of the Church of the Presentation of Holy Mary in Agrilia "I*ndustry vs Craft – Illustrated by the Example of Interior Plasters*"
Florian Schrott, *Lecturer and Researcher, Department of Architecture, ETH Zurich*

Wednesday 15/09

08:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar III: Hands-on practice in Agrilia

19:00 - 20:00 Seminar III: Discussion on the use of local materials at the old theran mines near the archaeological site of "Kastro"

Thursday 16/09

08:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar IV: Hands-on practice in Kera

19:00 - 20:00 Seminar IV: Lecture in the courtyard of the Monastery of the Assumption "*Studying Material Memory*"
Loukas Loukidis, *sculptor, lecturer at ASFA*

Friday 17/09

08:00 - 12:00 Practical exercise

12:30 - 15:00 Seminar IV: Hands-on practice at the Monastery of the Assumption

19:00 - 20:00 Seminar IV: Presentation of the results of the Workshop on contemporary sculpture 'Under the Landscape' by the ASFA participants

20:00 - 21:00 Conclusion of the Hands-on Workshop

DETAILED PROGRAMME OF SEMINARS

SEMINAR I : Archaeological and agricultural seminar

"Time past and time future: archaeological and agricultural perspectives on landscape and Agrilia"

Coordinators

Faidon Moudopoulos-Athanasiou, *Archaeologist, PhD Candidate, Univ. of Sheffield*
Savvas Christodoulou, *Agriculturalist, PhD Candidate, Agricultural University of Athens*

Description | During the workshop "*Time past and time future*" we will work to uncover the early modern remains in five sites at Agrilia. We will be dividTed into five teams working to remove the debris of decay from structures of the very recent agricultural and domestic past.

Hands-on practice | Monday 06/09 – Wednesday 08/09 (12:30-15:00)
Our practice, focusing on the methodologies of archaeology and agriculture, will take place in diverse underground and outdoor structures of Agrilia, as well as in agricultural infrastructure of Therasia. The hands-on practice will provide fertile ground for three evening discussions as outlined below.

Monday 06/09 (19:00)

Discussion | An Imperial Landscape

In this discussion, we will explore the landscape from a perspective of geology, ecology and ecophysiology, while also asking how humans played a major role in shaping Therasia. Furthermore we will discuss the socio-historical factors that gave rise to the early modern development in Therasia, namely the imperial context and the various forms of mobility it brought about. We will investigate the biodiversity shaping of the Aegean and Therasia in particular within the said period.

Tuesday 07/09 (19:00)

Discussion | Dwelling and ecological restoration

On the second day, we will become familiar with dwelling as a concept for understanding the early modern cultural landscapes.

Through cases from Therasia we will unravel the Imperial and post-Imperial historical trajectories of the island, and Agrilia in particular. Also we will attempt to point out the main cultural practices that led to a degraded ecosystem, as well as the future perspectives in landscape preservation in Therasia. Current agricultural practices and types of crops will be discussed.

SEMINAR II : Architectural seminar

"Into the Underneath"

Coordinators

Grigoris Koutropoulos, *Architect*
Anna Zacharaki, *Architect*

Invited speakers

Katerina Ritzouli, *Architect PhD, MSc., Ministry of Hellenic Culture in Eastern Macedonia and Thrace - Dpt of Technical Works. Ap. lecturer in School of Architecture - Democritus University of Thrace.*
Alkistis Daniil, *PhD Architect, Aristotle University of Thessaloniki*
Olga Molida, *MSc. Civil engineer*
Marianna Nassi, *MSc. Civil engineer*

Description | The seminar "*Into the Underneath*" will focus on the spatial development, the typological features and building techniques found in the underground traditional settlement of Agrilia. Among other things, we will investigate alleys and creeks, cave dwellings and kanaves (underground spaces for the wine production), cisterns and outdoor ovens as elements of the traditional ensemble.

Theme I | Water as an element in the shaping of the theran landscape
We will attempt to understand how the need to collect and manage water influenced the shaping of the anthropogenic environment in Therasia and Thera. Focusing on Agrilia, we will identify the constructive solutions that allowed the central cobbled pathway of the settlement to function as both a road and a river.

Wednesday 08/09 (19:00)
Presentation | The lecture entitled "*Traditional ways of water management in arid lands: from the castellations of Thera to the recent pre-industrial past of Therasia*" by Katerina Ritzouli, will introduce us to the topic of this section.

Thursday 09/09 (12:30-15:00)
Hands-on practice | Following the presentation on water management methods, we will attempt to interpret the water collection systems in Agrilia. After mapping photogrammetrically and with traditional methods the main "river" of the settlement which was the feeder of some of the cisterns of Agrilia with rainwater, we will study construction details and structural features that ensured the resistance of the path to the flow of large quantities of water as well as the storage of water in the cisterns that were inextricably linked to it.

Theme II | The traditional architecture of Therasia - the case study of Agrilia settlement
We will delve into the architecture of Therasia, focusing on the settlement of Agrilia, i.e. on the organization of the residential complexes, the public and private space, the underground and outdoor structures.

Thursday 09/09 (19:00)

Presentations | There will be two presentations related to the second theme:
a) "*The organization of space in the underground traditional settlement of Agrilia on the island of Therasia*", by Alkistis Daniil and
b) "*Building technology in the traditional architecture of Therasia*", by Olga Molida and Marianna Nassi.

Friday 10/09

Hands-on practice (12:30-15:00) | We will focus on the documentation of the underground buildings of the settlement as well as ancillary structures such as ovens, kitchens, cisterns and gardens. We will photograph and record the architecture of these structures using traditional methods, focusing on their typological variations, construction techniques and building methods.

Presentation (19:00) | There will be a presentation of the overall work of the seminar per point and working group with simultaneous commentary and discussion among the participants.

SEMINAR III

"Theran materials: traditional and modern (re)uses"

Coordinators

Nikiforos Meimaroglou, *MSc Civil Engineer, PhD Candidate, NTUA*
Ntoutsi Ioanna, *MSc Chemical Engineer, PhD Candidate, Ionian University*
Panagiotis Kostoulas, *MSc Architect*

Invited speaker

Florian Schrott , *Teaching assistant and researcher, Dep. of Architecture and Construction, ETH Zurich*

Description | The aim of the workshop is to provide theoretical training and practice in three basic categories of materials found in the cave dwellings of Agrilia and in the traditional architecture of Therasia and Thera in general: building mortars, plasters and pumice concrete, which were made with the basic ingredient "aspa", as the locals call it, or otherwise theran earth. The seminar also aims to initiate discussions on the modern use of local materials in traditional and new applications.

Monday 13/09 - Decoding the historical materials of the place

Hands-on practice (12:30-15:00) | On the first day we will explore underground structures of Agrilia and follow the methodology of macroscopic documentation for the three categories of materials, i.e. observing, photographing and recording notes in relation to their preparation technology, application and state of preservation.

Presentation (19:00) | The materials research conducted in the context of the "*Under the Landscape*" project, their documentation methodology and the approach to their modern re-production will be presented. Emphasis will be placed on concepts and terms from materials technology, necessary for understanding the Theran (and not only) historical know-how of mortar preparation.

Tuesday 14/09 – Raw materials and traditional know-how

Hands-on practice (12:30-15:00) | On the second day, we will focus on the collection of 'aspa' and its processing through sieving. We will become familiar with the raw material, the different particle size fractions and their use per category of material.

Presentation (19:00) | The work of the chair of Pr. Annette Spiro of the Department of Architecture and Construction of the Zurich University of Technology will be presented by researcher and lecturer Florian Schrott. The presentation, entitled "*Industry vs Craft*" will focus on the team's research on the documentation and safeguarding of traditional Swiss craftsmanship in the preparation of plasters.

Wednesday 15/09 – Experimentation and perspectives

Hands-on practice (12:30-15:00) | On the third day we will experiment with creating different compositions of aspa and aged lime putty. At the same time, the correct application of plasters will be demonstrated.
Discussion (19:00) | A discussion will be held on the limits and possibilities of using local materials and traditional know-how in architecture and art, in the old "theran earth" mines near the archaeological site "Castle".

SEMINAR IV

"Sculpture Seminar | Articulating Tephra"

Coordinators
Loukas Loukidis, *Sculptor, ASFA Professor*
Panagiota Stylianidou, *MSc. Architect, BA Fine Art (ASFA, student)*
Maria Chassioti|, *Architect, MA Theory and History of Art (ASFA, student)*

Description | The aim of the two-day workshop "Articulating Tephra" is to produce a dialogue framework on the meaning and uses of Tephra from the point of view of artistic creation. We will explore how the production of the artistic object, the ways of viewing and the aesthetic experience are reconstructed through the decoding of the natural and structured environment of Thirasia and the understanding of its local materials. The seminar will be carried out in the "artistic field" of the Monastery of the Assumption of the Virgin, as described below:

Thursday 16/09 - Studying Material memory

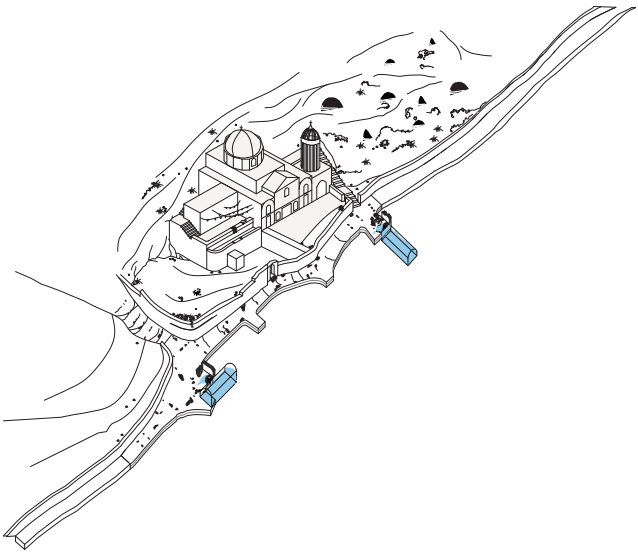
Hands-on Practice (12:30-15:00) | We will walk around the area of Kera, where we will experiment with sculptural carving in the existing landscape. The reinterpretation of the landscape through "in situ" human gesture creates derivatives which shift interest from form to data experience, such as materiality, scale, spatiality.

Discussion (19:00) | A lecture will be held, concerning the subject "*Studying Material memory*" by the sculptor- ASFA professor Loukas Loukidis. The material, in addition to its qualitative and morphological characteristics, also incorporates intangible features that contribute to its uniqueness. By using each unique material in the production of artworks, new content is added that derives from its history, its previous uses, its transformations over the years, so that one could argue that materials have a memory of their own which is inscribed in the artistic formation.

Friday 17/09 - Models of Tephra

Hands-on Practice (12:30-15:00) | We will be divided into five groups and experiment together in the courtyard of the monastery. By using the method of plastic sculpture we will create compositions from Theran earth, "aspa" and lime.

Discussion (19:00) | The participants of the Sculpture Workshop, students of Fine Arts, will talk to us about their experience with the material (theran earth), presenting the methodology and results of their artistic practice during "Under The Landscape" project.



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Sculpture seminar

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Geological map of Thirasia Island

Scale 1:10.000

Legend

Geological formation

- B: Shore and anthropogenic deposits
- Q: Pumice Quarries anthropogenic deposits. Minoan tephra lithic scrap deposits from quarrying activity.
- Scr: Scree deposits

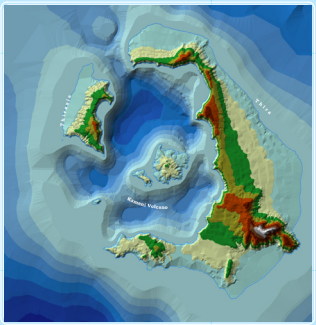
Minoan tephra deposits. Rhyodacitic pumice. Age: 1613 BC ± 10 years (Freidrich et al. 2006)

- Mb : 4th phase deposits (dense pyroclastic flows)
- Ma: 1st phase (Plinian fallout), 2nd phase (surge) and 3rd phase (massive phreatomagmatic tephra) deposits
- CR: Cape Riva eruption tuffs. Pyroclastic flows of Rhyodacitic pumice (welded facies near C. Riva) and relative lag breccias. Age: 21 ka (Bard et al. 1990).

Thirasia lavas

- ThLua: Thirasia Upper andesitic lavas.
- ThLr: Thirasia Rhyodacitic lavas
- ThLla: Thirasia Lower andesitic lavas.
- US2: Upper Scoriae 2. Red and gray andesitic tephra flow deposits, with prominent red rag flow horizons. Age: 79~54 ka (Druitt et al. 1999).
- SkL: Skaros lavas. Andesitic and basaltic lava flows. Age: 67±10 ka (Druitt et al. 1999).
- MT: Middle tuff sequence. Andesitic to dacitic pyroclastic deposits of the C.Thira, Middle Pumice, Vourvoulos and Upper Scoriae eruptions. Andesitic lava flows interlayers.
- SL: Simandiri lavas. Andesitic and basaltic lava flows. Age: 172±4 ka (Druitt et al. 1999).
- SVc: Simandiri volcaniclastics. Mostly reworked tephra.

Dykes · Dip · Contour (m) · River · Main Road · Unpaved · Path · City · Section AB · Church · City Area

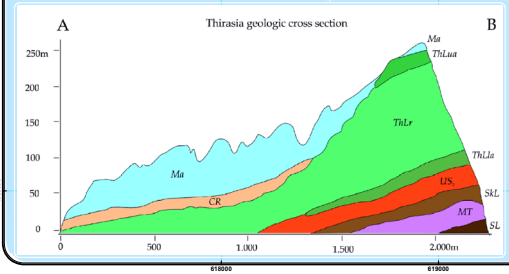


INSTITUTE OF GEOLOGY AND MINERAL EXPLORATION

Geological Mapping: Dr. G.Vougioukalakis
GIS - Digital Mapping: Dr. N. Adroulakakis
Msc M. Christopoulou
Msc V. Somataridou

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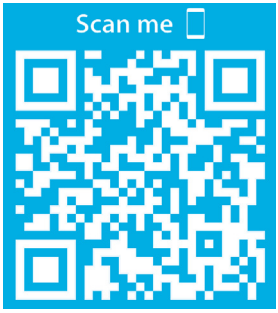
Thirasia geologic cross section



Cape Riva · Agia Irini · Phaneromeni · Evaggelismos · Kalogadares · Agios Ioannis · Potamos · Agrilia · Manolas · Cape Simantiri · Christos · Agios Charalambos · Cape Kimino · Profitis Ilias · Koimisis · Cape Trypiti · Gerios Bay

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