

GEOARCHAEOLOGY AND LANDSCAPE ANALYSIS: BACKGROUND AND NEW FRONTIERS OF STUDY, RESEARCH AND PROFESSION

19th September 2013, Pisa (Italy)
Dipartimento di Scienze della Terra, University of Pisa, Room C

Conveners:

Maurizio Lazzari e Stefano Del Lungo

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The workshop aims to focus attention on a method of multidisciplinary investigation that, during the recent years, excited a strong interest into the scientific community and the professional figures involved, above all because of the development prospects it offers. This initiative wants to contribute to the landscape analysis, by many branches of knowledge involved from time to time. This sector is strategically important, as it invests the landscape, understood as a visual and perceptual synthesis of the natural and man-made transformations occurred from the Paleolithic to the Middle Ages.

The event will not be limited to mere critical analysis and discussion about existing literature and ongoing work. It will have a purposeful character, trying to bring out even the professional potential that, starting from this method, could take a further enrichment and affirmation. It will especially be in relation to new technologies and applications (specific tools) that are used today in archaeological research, such as the use of LIDAR data and satellite remote sensing.

PROGRAMME

- 8:30-9:00 *Registration*
9:00-9:10 **Opening session**
Malfitana D.,
Director of the Institute for Archaeology and Monumental Heritage
CNR- IBAM
9:10-9:30 **Introduction to the workshop topics**
Del Lungo S. & Lazzari M.

Interventions - Oral session

- 9:30-9:45 **Layer and geo-historical stratification: reflections about complexity of landscape**
Candura A.R., De Paoli O., Rossetto A., Poli E.
9:45-10:00 **Geoheritage and Archaeological Heritage in Sintra Mountain (Portugal) as Basis to Geotourism Routes**
Rodrigues M. L.
10:00-10:15 **Mursia (Pantelleria, Tp): the study of the finds of marine fauna. Example of paleoenvironmental reconstruction of a site.**
Tolve A.
10:15-10:30 **Implementation of a Territorial Information System and drawing up of a digital geoarchaeological map for the Metaponto area (Basilicata, southern Italy): The MeTIBas Project**
Bianca M., Del Lungo S., De Martino G., Di Leo P., Lo Curzio S., Luongo R., Martorella F., Parisi S., Pulice I., Rizzo E., Sannazzaro A., Schiattarella M.
10:30-10:45 **Pietra Caduta Bassa site (Canosa di Puglia, southern Italy): archaeological and technical aspects for a conservation planning**
Andriani G.F., Baldassarre G., Diprizio G., Fioretti G.
10:45-11:00 **The impact of urban settlements on landscape evolution from the Iron Age to the Roman period in the Bologna area (Northern Italy)**
Bruno L., Amorosi A., Curina R., Severi P.
11:00-11:30 *coffee break*
11:30-11:45 **Natural environment, cultural response and landscape modification at Alba Fucens (Abruzzi Apennines, central Italy) between the 4th century BC and the 20th century AD**
Galadini F., Ceccaroni E.
11:45-12:00 **A geoarchaeological multidisciplinary approach to detect Roman ancient roads**
Del Lungo S., Gioia D., Lazzari M., Sannazzaro A.
12:15-12:30 **Geophysical Survey, Geology and Archaeology in the area of Aguglia d'Agosta (Priolo Gargallo, SR): new data on Hellenistic, roman and byzantine landscape**
Malfitana D., Lazzari M., Leucci G., Fragalà G., Cacciaguerra G., De Giorgi L.
12:45-13:00 **Cilento Vallo di Diano and Alburni - Geopark Elea - Velia: an UNESCO geoarchaeological site**
Aloia A., De Vita A., Positano M.P.

- 13:00-13:15 **Ground Penetrating Radar surveys at Grotte dell'Angelo in Pertosa (southern Italy)**
Catapano I., Loperte A., Satriani A., Larocca F., Affinito A., Soldovieri F., Amato M.
13:15-13:30 **The sanctuary in ancient times as a sacred unit and geoarchaeological document**
Sannazzaro A.

13:30- 14:30 *lunch*

- 14:30-14:45 **From geomorphology to cult. Born and oblivion of the etruscan-italic sacred area of Lago Bracciano in Montese (Modena Apennines)**
Badiali F.
14:45-15:00 **Earthquake destruction and modification of the urban landscape: the case of Rome (5th-9th century AD)**
Galadini F., Ricci G.
15:00-15:15 **Detection of old agricultural terraces in steep, vegetated terrain using airborne Lidar: case studies from Hong Kong**
Sas R. J., Yu J. P., Pau C. Y.Y., Styles K. A.
15:15-15:30 **Settlement pattern and the *puquios* of Nasca (Perù): a spatial comparison**
Danese M., Masini N., Lasaponara R.
15:30-15:50 **The monastic settlement of Jure Vetere (S. Giovanni in Fiore, Calabria, Italy): the publication of a multidisciplinary project of landscape archaeology**
Roubis D., Sogliani F.

Book presentation by Prof. Giovanna Bianchi (University of Siena)

15:50 - 16:10 *coffee break*

Poster session (short presentations)

- 16:10-16:20 **Viewshed and geomorphological analysis for geoarchaeological research**
Grano M.C., Danese M., Santagata M.F., Lazzari M.
16:20-16:30 **Geo-archaeology in Sena Gallica: a collaborative research using traditional survey, digital field mapping, geophysical and multidimensional modelling techniques.**
De Donatis M., Lepore G., Silani M., Boschi F., Susini S., Savelli D.
16:30-16:40 **Geoarchaeological study of the Uggiano castle (southern Italy) based on UAV remote sensing images**
Lazzari M., Gioia D., Anzidei B.
16:40-16:50 **The method CRSP for mapping the spatial distribution of Rockfall in Rupestrian Archaeological sites of Matera (Basilicata, Southern Italy)**
Sdao F., Pascale S., Losasso L.

16:50 - 17:15 **Final discussion and closing session**