



## Leiden University Technical Workshops for Students - 2012

Organised in partnership with: ArcLand ArchaeoLandscapes Europe



# Ground-based digital recording methods for archaeological sites and cultural landscapes

Part I: Methods and Theory (May, 1<sup>st</sup> to 11<sup>th</sup> 2012) in Leiden

Part II: Field Applications (August, 13<sup>th</sup> - 26<sup>th</sup> 2012) in Italy (Ostia and Isernia)

## The Course Outline

The Leiden Technical workshops focus on Ground-Based Digital Recording Techniques for the assessment, interpretation and conservation of complex archaeological sites. The courses ensure that participants leave the programme proficient in the use of state-of-the-art surveying and recording techniques in archaeology (total station, robotic total station, differential GPS), and gain a sound understanding of analytical approaches to the Human Use of Space in past built environments and cultural landscapes. The course aims to promote non-destructive methods for the retrieval of archaeological data, and contributes to the enhancement and exchange of knowledge within the ArcLand project.

The course consists of two parts: Part I takes place in Leiden and will focus on Methods and Theory, while Part II will concentrate on supervised practical work. This allows the participants to deepen their knowledge and apply their acquired skills to the archaeological field. Part II is fully embedded in ongoing archaeological field-work projects in **Ostia** and **Isernia**, Italy, combining past **urban** and **rural environments**. The courses will be fully compatible with the European education guidelines. The techniques and skills acquired in this course are not site specific and can be applied to most time scales. Either or both course units can be followed.



## Supervised Practical Work



The courses will concentrate on a complete training in the use of Total Station, Differential GPS and Robotic Total Station for the recording of complex cultural heritage sites, and the use of specialized computer applications for spatial analysis (GIS, digital elevation models, Space Syntax, 3D modelling). Lectures in GIS and spatial analysis will be given by the

principal tutors, Prof. Dr. John Bintliff, Dr. Hans Kamermans and Dr. Tesse Stek, all experts in landscape archaeology. In addition, the course will tap into other fields of expertise within the Faculty of Archaeology including geodesy (Eric Dullaart), 3D reconstruction and documentation (Chiara Piccoli, MA), as well as theoretical perspectives on the Human Use of Space (Dr. Hanna Stöger).



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