

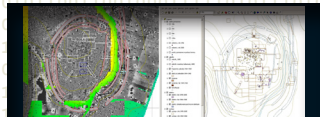
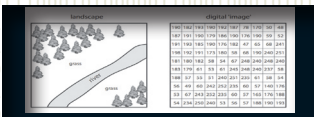
„SPATIAL DATA“

27-29 April & 4-5 May 2015, 10 a.m. – 3 p.m. s.t.

Undine Lieberwirth **Topoi**

# Introduction to Geographical Information Systems in Archaeology

[detailed program on page 2](#)



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The number of participants is limited. Therefore, please register by sending an email to the contact person until the 16th April 2015.



Geographical Information Systems (GIS) form the basis of spatial, statistical analysis in archeology. They are used both in the post-processing and analysis of archaeological excavation projects (intra-site analysis) as well as in the analysis of large spatial information of archeological landscapes (inter-site analysis).

The aim of the seminar is to provide participants with basic skills in the use of common GIS applications (ArcGIS, GRASS GIS), where archaeological data and issues are used to illustrate the concepts and methods.

Participants will be able after the seminar to

- import and combine historical maps, satellite images, aerial photographs, AutoCAD data, geophysical data etc. into a GIS,
- link geometric/vector data to thematic data (database),
- calculate 2.5D digital terrain models/raster maps (DTMs),
- perform simple spatial analysis,
- create digital maps for e.g. publication or WebGIS.

### Program

1. day: introduction to the software & introduction to co-ordinate systems (georeferencing / orthorectification of historical maps)
2. day: introduction to raster data / creating terrain models
3. day: introduction to vector data / applications with vector data (queries, import of CAD and GPS data, database links)
4. day: spatial analysis 1
5. day: spatial analysis 2 / questions & answers

The workshop topics can be customized on request. The course language is English.