



EC FP7 Programme People – Marie Curie Actions IAPP  
Project RADIO-PAST

## Third Specialization Forum

# “3D VISUALIZATION FOR THE STUDY AND MANAGEMENT OF COMPLEX ARCHAEOLOGICAL SITES”

*Carnuntum (Hainburg - Austria) 2nd – 7th July 2012*

In the framework of the FP7 Marie Curie – People IAPP project “Radiography of the Past”, a series of three High Formation Summer Schools (2010-2012) will be organized. This third Summer School is especially concerned with visualization, interpretation and virtual reconstructions of complex archaeological sites.

**Teaching strategy:** theoretical topics and case studies, hands on applications, practical IT based sessions and lab activities with the aim to interpret, visualize, present and reconstruct archaeological data and ancient landscapes data.

**Official language:** English.

**Location:** Archaeological park of the Roman site of *Carnuntum* and the “Kulturfabrik” located in the nearby village of Hainburg, not far from Vienna and Bratislava.

(<http://www.kulturfabrik-hainburg.at/en/about-the-kulturfabrik-hainburg>).

**Participants:** up to 25 participants, master students, master degree holders or doctoral students and specialists wanting to deepen their experience in these topics.

**Participants will be selected on the basis of their CV. Their English proficiency must be very good.** The registration form (for admission request, available on line at [www.radiopast.eu](http://www.radiopast.eu)) must be submitted before **March 30th, 2012**, at the attention of Mrs. Cornelia Fischer by e-mail: [cornelia.fischer@sapo.pt](mailto:cornelia.fischer@sapo.pt)  
Admitted participants will be informed in due time (before April 15<sup>th</sup> 2012) and they will be asked to pay the **participation fee before June 1<sup>st</sup> 2012**.

**A certificate of participation will be issued by the University of Evora, the coordinating institution.** Minimum attendance is 90% of teaching hours.

**Costs:** As the teaching staff is partially financed by the EC, participation costs will be limited to: **EURO 320**, including didactic materials, accommodation (in double rooms) and meals (full board) in hotels in the village of Hainburg, site visits and use of lab facilities. Participants who want to stay in a single room will have to pay an additional sum according to the different reservation condition.

### **Scientific Committee**

- Cristina Corsi (University of Evora, P ; University of Cassino, I)
- Frank Vermeulen (Ghent University, B)
- Michael Klein (7Reasons, A)
- Guenther Weinlinger (7Reasons, A)
- Bozidar Slapsak (University of Ljubljana, SI)
- Cornelius Meyer (Eastern Atlas GbR, D)
- Burckhart Ulrich (Eastern Atlas GbR, D)
- Arjen Bosman (Past2Present, NL)
- Sigrid Vanroode (Past2Present, NL)
- Simon Keay (British School at Rome; University of Southampton, UK)
- Franz Humer (Archaeological Park *Carnuntum*)

### **Invited lecturers**

- Graham Earl (University of Southampton, UK)
- Victor Lopez-Menchero (Spanish Society of Virtual Archaeology, E)
- Hugh Denard (Kings College London, UK)
- Michael Doneus (University of Vienna, A)
- Wolfgang Neubauer (University of Vienna, A)
- Laia Pujol (The Acropolis Museum, GR)
- Eleftheria Paliou (University of Evora, P)
- Daniel Pletinckx (Visual Dimension, B)
- Martin Schaich (Arctron, D)

### **Provisional program**

- Terrestrial optical active sensors – theory and applications of acquisition and processing of 3D laser scanning data
- Low cost photogrammetry and 3D visualizations
- Airborne remote sensing applications and 3D visualization
- Preparing geophysics results for 3D visualization
- 3D recording and interpretation of archaeological excavations and findings
- DEM elaboration and use as preparation for reconstructions
- GIS analysis in 3D environments
- Experiences in reconstructing prehistoric and Roman landscapes
- The management of 3D projects for cultural heritage
- Research, communication, access and preservation strategies for virtual cultural heritage

- Communication in modelling and the Internet
- Digital libraries for 3D reconstruction and modelling
- Publication and presentation of reconstructions
- Cognitive aspects of 3D visualisations in archaeology

### Field demonstrations and lab-seminars on:

- High precision laser scanning of artefacts
- Modelling, rendering and textures in visualization
- Animation and motion capture
- Software and hardware for archaeological reconstructions

### Partner institutions

The Summer School is organized in collaboration with:



- Govt. of the State of Lower Austria, Dept. of Cultural Affairs – Archaeological Park *Carnuntum*
- VIAS – Vienna Institute for Archaeological Science
- Ludwig Boltzmann Institute for Archaeological Prospection and Virtual Archaeology

### Summer School Secretariat

Cornelia Fischer (University of Evora, Radio-Past Project Management Office)

### Information

WEB site : [www.radiopast.eu](http://www.radiopast.eu)

Official e-mail address for contact: [info@radiopast.eu](mailto:info@radiopast.eu)

[www.radiopast.eu](http://www.radiopast.eu)

\*This initiative has received funding from the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 230679, under the action Marie Curie – People IAPP, with the Project entitled "Radiography of the past. Integrated non-destructive approaches to understand and valorise complex archaeological sites"