



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

## First Specialization Forum\*

**“Radiography of the past.  
Integrated non-destructive approaches  
to understand and valorise complex archaeological sites”**

***Ammaia* (Marvão - Portalegre, Portugal) 5<sup>th</sup> – 11<sup>th</sup> July 2010**

In the framework of the FP7 Marie Curie – People IAPP project RADIO-PAST\*, a series of three High Formation Summer Schools (2010-2012) will be organized at the archeological site of *Ammaia*.

**Topics:** traditional approaches to urban survey (ancient sources, archive data and historical cartography, GIS processing, surface artifacts collection...), wide range of remote sensing techniques, (vertical and oblique airborne photography, satellite imagery, multispectral remote sensing, LiDAR...), topographical and microtopographical survey, DGPS, geomatics and GIS integrated data processing.

**Teaching strategy:** theoretical topics and case studies and will imply field activities and applications with the aim to practice, collect, process and output data sets based on the use of different methods and techniques.

**Official language:** English.

**Location:** Museum of the archaeological site of *Ammaia* and Management Centre of the Parque Natural de Serra de São Mamede (São Salvador de Aramenha), in the municipality of Marvão, district of Portalegre in Portugal.

**Participants:** up to 20 participants, master students, master degree holder 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 good.** The registration form (for admission request, available on line at [www.radiopast.eu](http://www.radiopast.eu)) must be submitted before **May 8<sup>th</sup>, 2010**, at the attention of: Cornelia Fischer by e-mail: [cornelia.fischer@sapo.pt](mailto:cornelia.fischer@sapo.pt)  
Admitted participants will be informed in due time (before May 14<sup>th</sup> 2010) and they will be asked to pay the participation fee before June 4<sup>th</sup>.

**A certification of participation will be issued by Universidade de Évora.** The attendance must not be less than 90% of lesson's hours.

**Costs:** As the teaching staff is partially financed by the EC, registration fee will be limited to: **EURO 300**, including accommodation and meals (full board) at the Parque Natural de Serra de São Mamede Management Centre on the site of *Ammaia* and didactic materials.

### Scientific Committee

- Cristina Corsi – University of Évora (Portugal); University of Cassino (Italy)
- Frank Vermeulen – University of Ghent (Belgium)
- Bozidar Slapsak, University of Ljubljana (Slovenia)
- Simon Keay, British School at Rome; University of Southampton (UK)
- Cornelius Meyer, Eastern Atlas GbR (Germany)
- Michael Klein, 7Reasons (Austria)
- Guenther Weinlinger, 7Reasons (Austria)
- Arjen Bosman, Past2Present (Netherlands)
- Sigrid Vanroode, Past2Present (Netherlands)

### Invited speakers

- J. Bintliff (Leiden University)
- R.M. Cavalli (CNR – Progetto LARA, I)
- E. Cerrillo Cuenca (Instituto de Arqueología – Mérida, ES)
- A. Corns (The Discovery Programme – Dublin, IRL)
- M. Doneus (University of Vienna, A)
- V. Mayoral (Instituto de Arqueología – Mérida, ES)
- D. Mlekuz (Ghent University, B)
- C. Silvestre (Lisbon Polytechnic, P)

### Provisional program

- Ancient sources and historical cartography for survey; *Lecturer:* C. Corsi (University of Évora, P)
- Artefact survey: principles and techniques; *Lecturer:* J. Bintliff (Leiden University, NL)
- Artefact survey: applications on complex sites; *Lecturer:* J. Bintliff (Leiden University, NL)
- Geomatics techniques for archaeology and cultural heritage; *Lecturer:* A. Corns (The Discovery Programme – Dublin, IRL)
- The use of DGPS in the elaboration of microtopography; *Lecturer:* V. Mayoral (Instituto Archeologico de Merida, E)
- Airborne LiDAR: technology and applications; *Lecturer:* M. Doneus (University of Vienna, A)
- Airborne LiDAR from low altitude platforms I; *Lecturer:* A. Corns (The Discovery Programme – Dublin, IRL)
- Airborne LiDAR from low altitude platforms II; *Lecturers:* C. Silvestre (Lisbon Polytechnic, P) D. Mlekuz (Ghent University, B)

- Multispectral airborne imaging for archaeology; *Lecturer:* R-M Cavalli (CNR – Progetto LARA, I)
- Digital photogrammetry for archaeological survey, *Lecturer:* A. Corns (The Discovery Programme – Dublin, IRL)
- Oblique aerial photography for archaeology: principles and techniques; *Lecturer:* F.Vermeulen (University of Ghent, B)
- Oblique aerial photography for archaeology: applications; *Lecturer:* M. Doneus (University of Vienna, A)
- High resolution aerial photography from a low altitude platform; *Lecturers:* V. Mayoral and E. Cerillo (Instituto Archeologico de Merida, E)
- Ground truthing for archaeological survey; *Lecturer:* B. Slapsak (University of Ljubljana, SI)
- GIS applications for archaeological survey; *Lecturers:* F.Vermeulen, D. Mlekuz (University of Ghent, B)
- Experiences in data processing and mapping survey results; *Lecturer:* C. Meyer (Eastern Atlas, D)
- From survey data to virtual 3D reconstructions; *Lecturers:* M. Klein/ G.Weinlinger (7Reasons, A)
- Selection criteria for archaeological site policy; *Lecturer:* A. Bosman (Past2Present, NL)
- From survey to site management plan; *Lecturer:* S. Vanroode (Past2Present, NL)

#### **Field labs on:**

- LiDAR from low altitude airborne platforms
- Ground truthing of survey evidence
- Integration of excavated and survey data
- Geomatics for archaeology
- Software applications for virtual reality
- Low altitude aerial photography
- Digital photogrammetry
- DGPS

#### **Summer School Secretariat**

Valentina Castro (University of Évora, CIDEHUS)

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

#### **Information**

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

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

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