

*The International Committee for Documentation of Cultural Heritage (CIPA)*



## Summer School

# CULTURAL HERITAGE 3D SURVEYING & MODELING

5-12 July 2014, Paestum, Italy



### AIMS of the summer school

The CIPA (<http://cipa.icomos.org>) summer school on “Cultural Heritage 3D Surveying and Modeling”, organized within the activities of the Paestum project - <http://paestum.fbk.eu>, gives the opportunity to scholars, PhD students, researchers and specialists in the surveying and heritage fields to deepen their knowledge and expertise with reality-based 3D modeling techniques. The summer school consists of **theoretical lectures** (surveying, photogrammetry, active sensors, etc.) and **practical work**, in the field and in the lab. The participants will learn the basics in surveying and data acquisition (with digital cameras, laser scanning sensors and UAV platforms) as well as practice with data processing methods for **3D models** and **metric products** generation.

The participants, during the practical works, will be divided in groups and with some tutors they will exercise with photogrammetry, scanning and topography both in the archaeological area and in the nearby museum. Each group will be responsible of the digitization of artifacts and big structures and in the last day the results will be presented. The participants must bring a **laptop computer** (middle-high performances) and, possibly, a digital camera. Other instruments and processing software will be distributed by the organizers.

The summer school is organized by CIPA within its dissemination and technology transfer activities and with the financial support of the CIPA sustaining members.



### CIPA - The International Committee for Documentation of Cultural Heritage

CIPA is an international committee of ICOMOS ([www.icomos.org](http://www.icomos.org)) and ISPRS ([www.isprs.org](http://www.isprs.org)) aiming at keeping up with technology and ensuring its usefulness for Cultural Heritage conservation, education and dissemination.

### Preliminary program 5-12 July, 2014

|       |           |   |
|-------|-----------|---|
| Day 0 | Sat 05/07 | Arrival and welcome party   |
| Day 1 | Sun 06/07 | <b>Lectures:</b> topography, photogrammetry, laser scanning, 3D modeling  |
| Day 2 | Mon 07/07 | <b>Surveying / data acquisition</b> in the archaeological area and museum |
| Day 3 | Tue 08/07 | <b>Surveying / data acquisition</b>                                       |
| Day 4 | Wed 09/07 | <b>Data processing</b>  |
| Day 5 | Thu 10/07 | <b>Data processing</b>  |
| Day 6 | Fri 11/07 | <b>Final presentations</b> and <b>social dinner</b>                       |
| Day 7 | Sat 12/07 | Sea and leaving/departure   |

### Participation & registration

The registration fee for the participation is **600 Eur**. The fee includes: lecture material, entrance to the site and museum, full-board hotel, welcome party, social dinner.

For the participation, please send a CV to Fabio Remondino – [remondino@fbk.eu](mailto:remondino@fbk.eu) – **before May 23<sup>rd</sup>, 2014**. The max number of participants is **24**. The participant selection will be done according to the CV and order of arrival of the request.

### Venue and location

**Hotel Villa Rita**, Paestum (SA) - <http://www.hotelvillarita.it>: the participants will stay in double/triple rooms with full-board treatment. The hotel is very close to the archaeological area and ca 1.5 km from the train station of Paestum. The closest airport is Naples.



### The archaeological site of PAESTUM

The ancient city of Paestum preserves ruins of Greek and Roman times and three very well preserved Doric temples. Paestum is one of the most important archaeological sites in Italy and was included in the UNESCO World Heritage list in 1998. Greeks from Sybaris founded Paestum around 600 BC with the name of Poseidonia with urban spaces divided into sacred, public and private areas. At the end of the 5th century BC Poseidonia came under the control of the Lucani while in 273 BC, the city became a Roman colony. The city was then abandoned during the Middle Ages and the archaeological area remained submerged under marshes and brushwood for a long time. With the rediscovery of the temples in the 18th century, Paestum came into knowledge again. Systematic archaeological investigations started at the beginning of the last century and they are still on going.



### Lecturers and tutors:

- Fabio Remondino – FBK Trento, Italy
- Pierre Grussenmeyer – INSA Strasbourg, France
- Geert Verhoeven – LBI Vienna, Austria
- Fabio Menna – FBK Trento, Italy
- Fausta Fiorillo, University of Salerno, Italy
- Andreas Georgopoulos – NTUA Athens, Greece
- Stratos Stylianidis – AUTH Thessaloniki, Greece
- Jose' Luis Lerma – Univ. Politecnica Valencia, Spain
- Erica Nocerino – FBK Trento, Italy
- Belen Jimenez Fernandez Palacios – FBK Trento, Italy

### Summer school partners

- Archaeological superintendence for the provinces of Salerno, Avellino, Benevento and Caserta - responsible: Dr. Adele Campanelli
- National archaeological museum of Paestum – responsible: Dr. Maria Annunziata Cipriani

