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Editor’s Note
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The journey that started months ago continues! The third issue is ready and in front of your screen. The third issue is scheduled before summer and unavoidably, lots of stuff is dedicated to summer schools and events. In fact, one of them is organized and co-funded by CIPA.

In addition, we provide information with respect to the International Day for Monuments and Sites, took place at Taipei City. CIPA represented by Prof. Andreas Georgopoulos, CIPA Secretary General and Prof. Alex Yen; the running CIPA Symposium Director. Another section is dedicated to projects and ideas, by giving floor to running initiatives or to everyone interested in expressing his/her own views on issues related to CH.

Finally, information on two research positions in CH provided by the Cyprus University of Technology (CUT) under the Marie Curie programme is announced.

The CIPA newsletter is open to every colleague in the area of CH that wishes to announce or publish relevant news and articles.

Do not forget that we do count on your support.

Have all a lovely reading … and enjoy the summer!

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CIPA Event in Taipei, CHINA

International Day for Monuments and Sites, 24 - 25 April, 2014
Dr. Alex Ya-Ning Yen - alexyen@cute.edu.tw

On 24th and 25th of April, CIPA held an event at Taipei City, which was co-organized with Bureau of Cultural Heritage and China University of Technology (Taiwan). This event was co-organized with the ICOMOS thematic events of 18th April 2014, that celebrated the “International Day for Monuments and Sites”, whose establishment was approved by the 22nd UNESCO General Conference in 1983.

The theme for 2014 is the Heritage of Commemoration discussing about “Heritage of Commemoration” and “Digital Cultural Heritage and International Cooperation”. The 2 day’s event was attended by more than 180 participants from related governmental departments, universities, NGOs and stakeholders. CIPA representatives Andreas Georgopoulos (Greece) and Alex Yen (Taiwan) had their presentations during this conference.

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International Council on Monuments and Sites
Conseil International des Monuments et des Sites
Projects & Ideas

Update on the Arches Heritage Inventory and Management Systems

David Myers – dmyers@getty.edu

The Arches Project is a joint initiative in which the Getty Conservation Institute and World Monuments Fund have created a modern open source information system to help organizations inventory and manage heritage places of all types. The system has been developed to address the widespread need for low-cost electronic heritage inventories that are easy to use and access. Arches allows users to record information about the location, classification, condition, and many other characteristics of heritage sites, as well as related activities (including historical events and modern investigation or management activities), actors (including persons and organizations), as well as documents and images.

Arches is designed so that any heritage organization may take the software code and independently customize and implement it. Arches incorporates international standards for heritage inventory, heritage data, and information technology. The software has been developed with the input and expertise of English Heritage and the Flanders Heritage Agency. Version 1.0 of the Arches open source code was released in October 2013, and version 2.0 in March 2014. We encourage you to visit www.archesproject.org to interact with a demo version of Arches (click on “See Arches”). You may also download the software code (click on “Get Arches”) to install it on your own server or computer for evaluation, customization, and deployment.


We invite you to participate in the Arches open source community, let others know about it, and provide feedback.

You may submit questions about the system, including technical questions about its installation and customization, or provide feedback using the Arches community discussion forum at http://archesproject.org/forum.

CIPA will be hosting an Arches community workshop at the ICOMOS General Assembly in Florence on the afternoon of Sunday November 9. Further details about the workshop will be provided soon on www.archesproject.org. The Arches Project was chosen by Google as one of the open source projects in its 2014 Summer of Code program. Google is supporting two information technology students selected through a competitive process to work with the Arches development team this summer to work on several new software features.

The Getty Conservation Institute is currently working with the City of Los Angeles, USA, to customize Arches to manage and publish data online about the city’s heritage resources, and to serve as a tool for their ongoing protection. As a result of this work, there will be a number of new features available in version 3.0 by the end of 2014. To receive future updates, please sign up at http://archesproject.org/announcement-list.

Digital photogrammetry for preserving wall paintings: Application by the Getty Conservation Institute (GCI) and training of local personnel in Kasbah, Morocco.

Christian Ouimet - Christian.Ouimet@tpsgc-pwgsc.gc.ca

Ottawa’s Carleton University supported the Getty Conservation Institute (GCI) and CERKAS (Centre de Conservation et de Réhabilitation du Patrimoine Architectural des Zones Atlasiques et Sub-atlasiques) work at an earthen architecture site, the Kasbah of Taourirt in Morocco this past April. The work consisted of providing orthographic photo elevations of several decorated rooms that were finished with wall paintings, and training on how to undertake this type of project for the local CERKAS team. These records were produced to support the Getty Conservation Institutes wall painting specialist work such as producing a condition assessment. Due to the complex geometry of some of the wall surfaces, digital photogrammetry was undertaken to produce the orthographic photo elevations.

In order to obtain consistent and well exposed photographs, an inexpensive lighting kit was assembled, using standard speedlights/flashes (a total of 4), and low cost wireless transmitters. The photographs were also adjusted for white balance. One single adjustment was done for the entire set of photographs, since the only light source was from the speedlights/flashes.

Capturing of photogrammetric photos
Staff from the Getty Conservation Institute also assisted in the production of the photogrammetric models. A user friendly structure from motion photogrammetric package was used.

High resolution images from the resulting models (OBJ format) were produced with Meshlab, an Open Source software. These images were then layed out, scaled and organized in a Cad package, and printed for the Getty Conservation team work.

Other by-products can be produced from the models, such as animations. This can be a flythrough of the captured rooms, or animating artificial light, to highlight any texture present on the wall surfaces. The condition assessment findings will also be transferred to the same drawing set, providing an accurate account of the condition of the wall surfaces.

**The Titanic Dilemma**

*Minna Lönnqvist - minna.lonnqvist@helsinki.fi*

In the waters of my country in Finland world’s oldest champagne cargo was found recently, and there is a constant debate, who owns the contents of the bottles. Some have been able to drink this unique cultural heritage that a wreck has provided.

Some time ago ten most remarkable ship wrecks of the world were named by Archaeology magazine. The task was not easy, and choices may be subjective. In the list there are several notable wrecks from antiquity that have been under the scrutiny of underwater archaeology. The tenth of the wrecks is the Titanic which undoubtedly deserves its place.

My grand aunt was going to travel by the Titanic but she told that she decided to take another ship to America, after seeing the Titanic at the harbour of Southampton. She became so horrified by seeing the mere size of it. She was saved, but the famous ship not – the great achievement of the time.

According to some antiquity laws, the Titanic that sank in April 1912, could have only entered the list of antiquities just two years ago in 2012 and as such could not have been under antiquity laws. The wrecks also are sometimes in the international waters that do not belong to the authority of any country, or the antiquity laws of a given country do not cover ship wrecks.

Before the 100th anniversary of its maiden voyage that ended on a tip of an iceberg, the wreck of the Titanic was discovered in the 1980’s by Robert D. Ballard. Amounts of its cargo have been retrieved ever since. Rush to the site has produced remarkable scenes and finds. One has been able to follow the dives through various documentaries. We have been taken to solve the problems of the iceberg, Titanic’s brittle rivets, and the tragic human errors in interpreting distress flares or telegraphing.

But the dilemma of Titanic continues. Who owns it? Who was allowed to dive and lift items from the site like the Titanic? Should the site be declared as a World Heritage Site? Some have considered the visits to the site as disturbance of grave peace, and for the others the Titanic and its finds are cultural property - the heritage of all mankind that needs to be protected and preserved. The items therefore are seen as worth of preserving, when the iron wreck is fading away.

However, for an archaeologist some things have been notable: the lack of actual documentation of the finds made in situ. As far as I am aware, there has been no scientific documentation of the find spots and mapping of the spatial distribution of items. Some photographs, how a clock or a doll was found lying on the sea bed, do not assure the standard of documentation of various groups that have entered the site. This is all is deplorable as the artefacts only find their scientific meaning in their original context of discovery. Some valuable scientific information is lost forever - information which books of the maiden voyage cannot tell.
Summer Schools and training

5 - 12 july 2014. Summer school in paestum, Italy cultural heritage 3D surveying & modeling

Fabio. Remondino - remondino@fbk.eu

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.

Preliminary program 5-12 July, 2014

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

Participation & registration

The registration fee for the participation is 600 Euro. 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 – before May 23rd, 2014. The max number of participants is 24. The participant selection will be done according to the CV and order of request receipt.

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.

25 - 29 August 2014. Summer school in Provence: Photogrammetry for Archeologists and Architects
Raphaële Heno - raphaele.heno@ensg.eu

This training session organized by the National School of Geographic Sciences* (ENSG) under the auspices of CIPA and SFPT at IGN-France’s fieldwork training center at Forcalquier in Provence (southern France) from August 25-29, 2014, aims to show professional archeologists and architects how to use state-of-the-art close-range photogrammetric tools. There will be theoretical courses, practical exercises in the field and data processing simulations on free and open-source software in the office.

Some quick information:

- Duration: 5 days
- Fees: 650 euros
- Full-board accommodation: 60 euros/day
- Working language: French
- *IGN-France’s School of Geomatics (Ecole nationale des sciences géographiques)

For further details, see complete program at http://www.ensg.eu/Ecole-d-ete-en-photogrammetrie


Rand Eppich - randeppich@gmail.com

This eight-week course aims at serving a wide range of conservation practitioners and decision-makers by placing technical issues within the broader conservation context, in order to link them to planning and management concerns. At the conclusion of the course, participants will

- improve their understanding of critical processes in conservation so as to apply them at the macro and micro levels and improve their strategic planning skills relevant to heritage management
- expand their awareness, knowledge, and understanding of current principles and practices in the conservation of built heritage and enhance their skills, judgments, and experience.

The third module focuses more closely on technical issues including documentation, condition assessments and various conservation
treatments. In this module the participants worked in the Basilica of Santa Cecilia for one week. The 14 participants from around the world focused on documenting the Capella Rampaolla which will undergo conservation works on the wall paintings. They conducted archival research and used a variety of techniques and technologies to record the frescos and their conditions. These included digital photography with artificial and natural light sources, time-lapse video, high dynamic range imaging and an introduction to 3D photogrammetry. They also used rectification software, temperature measurements and laser measurement devices to create CAD drawings of the floor plan and combine with the existing documentation created by previous courses. They then created scaled wall elevations upon which they added their notes concerning condition assessment and possible reasons for deterioration. For more information see www.iccrom.org

Research Positions in CH

Cyprus University of Technology (CUT) - Full Time Marie Curie Early Stage Researcher Position (ESR) in the field of New techniques for data storage and archiving of massive and complex amounts of 2D/3D/4D Cultural assets.

M. Ioannides - marinos.ioannides@cut.ac.cy

Applications are invited from candidates who possess the necessary qualifications in order to fill one (1) full time Marie Curie Early Stage Researcher (ESR) Fellow Position in the Digital Heritage Research Lab of the Cyprus University of Technology (CUT) in the research fields of 2D/3D/4D Digitalization (automated methodologies for 2D and 3D data acquisition: photogrammetry, Laser Scanning, depth camera sensors, SFM etc.), Computer Vision (Image processing, geometric invariant visual features, data-preprocessing/filtering, Pattern recognition), Computer Graphics (modeling), Metadata enrichment for tangible and intangible Cultural Heritage, Big Data and Cloud Computing applications.

The selected Marie Curie ESR will work for 25 months within the ITN-Digital Cultural Heritage (ITN-DCH) Marie Curie ITN Programme which is the only EU funded programme bringing together fourteen (14) leading European Institutions as full partners and nine (9) other as associated partners in a transnational network, aiming at implementing a multidisciplinary and intersectorial research and training programme between the academic and the industrial partners.

Position: One ESR to be recruited by the host organization of the Cyprus University of Technology in Limassol, Cyprus for the duration of 25 months under full employment contract. The fellow will work on: Development of Innovative methodologies for reuse of such complex structures from digital libraries.

Deadline: October 15, 2014

For further information please contact Dr. Marinos Ioannides at email marinos.ioannides@cut.ac.cy and telephone number +357-25-002020 or visit the website www.itn-dch.eu and www.itn-dch.org.

Cyprus University of Technology (CUT) - Full Time Marie Curie Experience Researcher Position (ER2) in the field of Educational perspectives in digital cultural heritage.

Applications are invited from candidates who possess the necessary qualifications in order to fill one (1) full time Marie Curie Experience Researcher (ER) Fellow Position in the Digital Heritage Research Lab of the Cyprus University of Technology (CUT) in the research fields of 2D/3D/4D Digitalization (automated methodologies for 2D and 3D data acquisition: photogrammetry, Laser Scanning, depth camera sensors, SFM etc.), Computer Vision (Image processing, geometric invariant visual features, data-preprocessing/filtering, etc.), Metadata enrichment for tangible and intangible Cultural Heritage, Big Data and Cloud Computing applications.

The selected Marie Curie ER will work for 15 months within the ITN-Digital Cultural Heritage (ITN-DCH) Marie Curie ITN Programme which is the only EU funded programme bringing together fourteen (14) leading European Institutions as full partners and nine (9) other as associated partners in a transnational network, aiming at implementing a multidisciplinary and intersectorial research and training programme between the academic and the industrial partners.

Position: One ER to be recruited by the host organization of the Cyprus University of Technology in Limassol, Cyprus for the duration of 15 months under full employment contract. The ER fellow will work on: the development of Innovative methodologies for the automatic data reuse from digital libraries (i.e. multimedia encyclopedias). Moreover, the fellowship will focus on the following objectives:

- Development of Innovative methodologies for reuse of such complex structures from digital libraries.

Deadline: February 16, 2015

For further information please contact Dr. Marinos Ioannides at email marinos.ioannides@cut.ac.cy telephone number +357-25-002020 or visit the website www.itn-dch.eu and www.itn-dch.org.