

Visit to the Natural History Museum of Crete
(July 7th, 2010)



Tales of Things: How to create an on-line museum

A do-it-yourself method for interacting with museums collections and cataloguing exhibits online will be presented to the Summer School participants. The participants will experience the linking between real museum exhibits and virtual online information. They will be involved in playful learning activities in the new Natural History Museum of Crete while at the same time they will be able to link physical exhibits with relevant digital objects. The participants will be involved in a field trip of high environmental and historical importance for searching and viewing digital content related to the natural habitat of Crete by using PDAs and mobile phones. They will also have the possibility to add their tags and present their own opinions and ideas. Smart phones with internet access allow new possibilities for mobile interactive eLearning scenarios. By using the camera of the smart phone, the participants will scan the "exhibit tag" (QR code) and will get background information, additional learning materials and interactive quiz games directly to their mobile phones. The specific activity is organised in collaboration with the Natural History Museum of Crete and the FH Joanneum (Austria).

Debating climate change: scientists discussing with educators in a science cafe

In today's world of rapid scientific and technological developments, it is of paramount importance to help citizens of all ages and backgrounds to develop a better understanding of the role science is playing in our life. Next to the need for public discussion on ethical issues arising out of these developments, it should be acknowledged that if citizens do not know or appreciate what is being done in research institutes and laboratories, it is unlikely that science will find the support and talents it needs to continue to develop. One of the ways that the scientific community has invented to reach the wider public are 'science cafes'. These events constitute informal experiences realised through a relaxed social gathering focused on promoting public understanding of science and debate on scientific issues. Participants of the Summer School will have the opportunity to explore the potential of science cafes for science communication and informal science learning, by participating in a science cafe activity themselves. In the inviting and provoking environment of the Natural History Museum of Crete, they will be encouraged to discuss the global problem of climate change, facilitated by experts and content from the museum and the University of Crete. The 3D world of Second Life will also be tried as a platform for the participation in the science cafe of remote users, as well as an option for the realisation of virtual-only science cafe activities. This activity will be organised in collaboration with the Greek regional section of Euroscience and Digital Broadcast Channel in the framework of SciCafe, Europe's Science Cafes Network supported by the European Commission (FP7-Science in Society).



Hands-on teachers' training activities toward European Natural History and Environmental Cultural Heritage, using Digital Learning Resources and Repositories

Summer School Program
July 4th – 9th, 2010
Rethymnon, Crete, Greece

<http://www.ea.gr/ep/nature-summer-school/>



The Summer School is organized in the framework of the METASCHOOL project which is co-financed by the European Commission, Lifelong Learning Programme



Organized by the Physics Department of the University of Crete and Ellinogermaniki Agogi



Program

Parallel Events - Activities

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	4 July 2010	5 July 2010	6 July 2010	7 July 2010	8 July 2010	9 July 2010
09:00-11:00		Introductory Session Educational metadata and on-line repositories <i>Dr. Sofoklis Sotiriou, Ellinigermaniki Agogi</i> Using the OSR Portal in your science classroom <i>Dr. Sofoklis Sotiriou, Ellinigermaniki Agogi</i>	Workshop 2 Educational metadata characterization for science education digital learning content using the OSR Portal <i>(Practice)</i>	Visit to Natural History Museum of Crete	Workshop 4 Developing technology - enhanced educational activities for OSR <i>(Practice)</i>	Participants' Presentations
17:00-19:00	Keynote Lectures The beginnings of Modern Science in the 16th and the 17th centuries <i>Prof. K. Gavraglu, University of Athens</i> Recent results from the ATLAS experiment at CERN <i>Prof. Ch. Kourkoumelis, University of Athens</i> Science & Society: Challenges in the 21st century <i>Prof. G. Neofotistos, University of Crete</i>	Workshop 1 Examples of educational metadata characterization for science education digital learning content using the OSR portal <i>(Training)</i>	11.00 – 13.00 Plenary Session - Lecture: Educational applications in "Second Life" <i>Caroline Schleiss, Digital Broadcast Channel</i>	11.00 – 13.00 Plenary Session - Lecture: Advanced technologies in education <i>Prof. Alexander K. Nischelwitzer, FH Joanneum</i>	11.00 – 13.00 Plenary Session - Lecture: The e-KnowNet Portal <i>Glykeria Anyfanti, Eugenides Foundation</i>	
		Workshop 1 Examples of educational metadata characterization for science education digital learning content using the OSR portal <i>(Training)</i>	Lectures* Educational resources for astronomy education <i>Dr. Sofoklis Sotiriou, Ellinigermaniki Agogi</i>	Workshop 3 Examples of developing technology - enhanced science educational activities	Workshop 5 Developing technology - enhanced educational activities for OSR <i>(Practice)</i>	

Visit to the Skinakas Observatory (July 5th, 2010)



The Skinakas Observatory (Longitude 24o 53 ' 57 " East, Latitude 35o 12 ' 43 " North) is located in the Ida mountain in Central Crete at an altitude of 1750m, 25km line-of-sight distance and 70km by road from the El Greco Hotel.

On the road, 20km before Skinakas, one passes through the traditional village of Anogia which is well known for its significant role in recent Cretan history. At a line-of-sight distance of about 6

km southwest to the Observatory there is Ideon Andron, the famous cave where according to the myth Zeus was brought up as an infant.

The facilities of the Skinakas Observatory are widely used for student education in Astronomy. Many undergraduate and graduate students take advantage of the opportunity to participate in research projects based on optical observations performed at Skinakas. Skinakas is the main observatory of the DISCOVERY SPACE Network (www.discoveryspace.net).

Program:

18.00	Departure from El Greco Hotel
20.00	Arrival at Anogia Village
20.00 – 22.00	Dinner
22.30	Arrival at Skinakas Observatory
Presentation of the Observatory by Prof. Ioannis Papamastorakis	
22.30 – 00.30	Observations
00.30	Departure from Skinakas
02.00	Arrival at El Greco Hotel



Real Learning in Virtual Worlds (6th of July, 11.00-13.00)

The unique qualities of 3D virtual worlds offer opportunities for rich sensory immersive experiences, including experiential learning activities in 'authentic' contexts. Such activities may range from simulations, modelling of complex scenarios and data visualisation to role-plays and collaboration that cannot be experienced through other internet platforms. Second Life (secondlife.com), currently the most popular 3D virtual world, is a completely user-generated environment offering relatively easy-to-use building and scripting tools that everyone can become familiar with. This makes it an ideal platform for engaging teachers and students in creating their own learning experiences and environments in unprecedented ways. In the framework of the two sessions, participants of the summer school will have the chance to familiarise themselves with Second Life and some of the ways this environment can be used and, in some cases, has been used for educational and wider learning purposes.

Farewell Dinner at Agreco Farm (July 8th, 2010)



Delving deep into Cretan tradition, Agreco, a fairytale traditional farm, has revived centuries-old organic farming practices in a unique expression of Greek 'philoxenia', or hospitality. This privately owned 40,000-sq estate

is an innovative display of environmentally friendly methods for traditional and modern cultivation and breeding.

Shaped by hand, every stone at Agreco preserves the delicate balance between man and nature. The farm and its buildings stand in perfect harmony with the landscape.

The estate, a replica of 17th century lodge, features a traditional olive press, a flour water mill, a wine press and a giant vat for grape crushing. The complex includes a church, a village square and store. The farm highlight is the mini-zoo!

Everything grown on the farm ends up in the kitchen, where Agreco's chef prepares the traditional Cretan dishes featured on the Taverna menu. A large olive tree and vines wrapped around the wooden beams of the pergola shade the stone-laid terrace with the magnificent view of the Cretan coast.

Program:

19.00	Departure from El Greco Hotel
19.30 – 20.30	Farm Tour
20.30 – 22.30	Farewell Dinner