

Lifelong Learning Programme Information and communication technologies - ICT (KA 3)

Nano Tech Science Education

Grant Agreement No 2010-4223/001-001



D29. THE REPORT OF DISCUSSION PORTAL

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The report of discussion portal takes part in the Dissemination Workpackage7. FORTH (Partner 4), set up a portal system, to enable the implementers to share knowledge about the implementations. It has been used by the wider educational community to discuss project related issues. A one day workshop where local teachers, university students, local policy officials and parents plus experts were invited in order to cumulative project results and transfer them to the local level. Participants of the dissemination seminars were introduced about the discussion portal by all partners.

The report describes the portal system in the virtual laboratory to enable the implementers to share knowledge about the implementations and potential users e-mail lists including the teachers, prospective teachers and universities students provided to FORTH to let them exchange their opinion about the use and place of Nanotechnology in science education and it would be used by the wider educational community to discuss project related issues. The blog has multilingual interface (in all partners' national languages).

Structure: Home page

Introduction Nano forum Nano news Nano projects Contuct us



Fig. 1. Home page of the NTSE Blog

The nano-forum pages served for informing teachers about nano-science topics. Three articles were published there.

The 1st article named 'What is Nanotechnology? illustrates the Nano Scale giving simple examples related to life. Finally, it tries to summarize and underline that nanotechnology can be defined as the technology that deals with particles sized between 1-100 nm. Nanoparticles are considered a bridge between bulk materials and atomic or molecular structures. This article has 11728 hits.

The 2nd article named as 'Nanotechnology: Ideas & concepts' based on the very earlier story of Nanotechnology. We learned that early examples of nanostructured materials were based on craftsmen's empirical understanding and manipulation of materials. Use of high heat was one common step in their processes to produce these materials with novel properties. This article has 1640 hits.

The 3rd article is named as 'Nanosciences and nanotechnologies learning and teaching in secondary education '.This literature review provides an overview of recent studies on the introduction of nanosciences and nanotechnologies in secondary education. This article has 1927 hits.



Fig.2 Articles in NTSE Blog

Every article had a trigger question on the bottom to draw attention of the blog users to think about the nano topics and visit the related articles and pages of the virtual lab. All these articles were connected with the experiments presented in our virtual lab and provides background information about the nanotechnology.

Registered users were able to leave comments. In total the blog has 19 registered users; most of them are the consortium members.

Name 🛓		User Name	Enabled	Activated	User Groups
Alexander	5	a.angelov@cct.bg	0	0	Registered Editor
Andrei Chilian	5	Andrei. Chilian	٢	0	Registered Editor
Arzu Aslandoğdu		arzu	0	0	Registered
Aslıhan Çelik		aslihan	0	0	Registered
Ercan Tatli		Scienceage	0	0	Registered Publisher
Giannis	5	giannis_sg	٢	0	Registered Editor
İdil	5	Akçay	0	0	Registered Editor
llian	5	Uzunov	٥	0	Registered Editor
Laura Gorghiu	5	Laura.Gorghiu	0	0	Registered Editor
Leonidas Manou	5	Leonidas.Manou	0	0	Registered Editor
Nadejda Valeva	6	nadval	0	0	Registered
Nasko Stamenov	5	Nasko.Stamenov	•	0	Registered Editor
Orhan Selim Ergin	6	O. Selim Ergin	0	0	Registered
pantelis		pantelifragias27	0	0	Registered
Radu Lucian Olteanu	6	Radu.Lucian.Olteanu	0	0	Registered Editor
Testios Testakis	6	Tester	0	0	Registered
Verina	6	Petrova	0	0	Registered Editor
Yorgis Androulakis	5	YorgisA	0	0	Registered Editor
zuhal	6	yılmaz dogan	0	0	Registered Editor

Fig 3: the list of registered users in blog.

Although we tried to activate experts in the internal blogs area for exchanging ideas for nanocamp activities), teachers and experts preferred other means to communicate their opinions/suggestions. Some of those opinions can be found in the short reports regarding teachers' reflections. On the other hand we can say that the blog served really well as an information channel on nanoscience-nanotechnology trends. The nano-news page is updated in a daily bases with aggregated RSS feeds from popular nanotechnology sites. So in one page, teachers can find fresh articles on nano-topics from selected sources like Phys.org, Nanowerk, MIT, Technology.org.

When we think the numbers of hits for the first article "What is nanotechnology" (this act also as a homepage) it was observed that the blog is quite active as information channel. However, in order to share experiences about poster competitions, science camp and classroom implementations experts, teachers students prefer information channels on new trends as <u>https://www.facebook.com/pages/Nano-Science-Camp-</u> <u>Bulgaria/409485935836283?fref=ts</u> and <u>https://www.facebook.com/nano.doga?fref=ts</u>



Fig 4. Facebook page of Nano Science Camp

The function of the blog was put on a table in 5th PM in Crete in October 2013 and the partners decided to link the blog and web site pages of the Project with the facebook page. This page was created in June after Nano Science Camp. Currently there are 35 members and most of them are the science camp students and teachers. 118 people visited this page and liked the records and photos in this page. It was enriched with the records from the Science Camp. Still it is actively used and they are visited by the students and it welcomes the new participants to inform the new participants about the next Science Camp Event in 2014. Apart from this, one of the participants from science camp created a Nano Doga page to sustain the communication among the camp participants. It is also followed by 48 people.