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Scientix – building a community for science education on Europe

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European Schoolnet, Brussels, Belgium
European Schoolnet (EUN)

Network of 30 Ministries of Education in Europe

Three areas of interest:
- services to schools,
- research and innovation,
- sharing of learning resources

Promoting the use of ICT and digital technologies in the classroom

Promoting the European dimension in schools

Improving the quality of education in Europe
EUN STEM Projects

- European Schoolnet
- inGenious
- SCIENTIX
- GLOBAL excursion
- GO-LAB
- PATHWAY
- Nanopinion
- Xperimania
- Chemistry: All about You
- FuturEnergia
- AMGEN Science Teacher Training Initiative
EUN STEM Projects
European science and maths projects

[Logos of various projects and initiatives]
Promote collaboration between projects
Projects: e.g. UNAWE

http://www.unawe.org/
EUNAWE: EUROPEAN UNIVERSE AWARENESS

EUNAWE exploits inspirational aspects of astronomy and space to boost children’s interest in science and technology, and to broaden their minds and stimulate European and global citizenship.

European Universe Awareness (EUNAWE) is the European branch of the global Universe Awareness (UNAWE) programme, and is aimed at the implementation of Universe Awareness programmes in six countries over three years: Germany, Italy, the Netherlands, the United Kingdom, South Africa and Spain.

The project will include organising teacher-training courses and developing hands-on material for children. In the long term, EUNAWE aims to help produce the next generation of European engineers and scientists and to make children from underprivileged areas realise that they are part of a much larger European community.

Although UNAWE was founded only five years ago, it is already active in 40 countries and comprises a global network of almost 500 astronomers, teachers and other educators.

- Country: Germany, Italy, Netherlands, Spain, United Kingdom, Other
- Coordinator: Leiden University, www.leidenuniv.nl
- Partners:
  - Partner institutes
    - Ruprecht-Karls-Universität Heidelberg, Germany, http://www.uni-heidelberg.de
    - Istituto Nazionale di Astrofisica, Italy, http://www.inaf.it
    - National Research Foundation, South Africa, http://www.nrf.ac.za
    - Universitat Politecnica de Catalunya, Spain, http://www.upc.edu
    - Armagh Observatory and Planetarium, UK, http://www.arm.ac.uk
HOW TO DETERMINE THE DISTANCE EARTH-SUN WITH THE TRANSIT OF VENUS

Descriptor: universe, celestial body, astronomy, space

Age: 8-18 Resource type: guide tool application

Description: In this resource students can use their mathematical kno...Know More

Creative Commons license: share

Project: Eunawe

View this in:

Request translation:

HOW THE TRANSIT OF VENUS CAN BE USED TO MEASURE THE EARTH-SUN DISTANCE

Descriptor: universe, celestial body, astronomy, space
The Licenses

- **Attribution**
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  - CC BY-ND

- **Attribution-NonCommercial**
  - CC BY-NC

- **Attribution-NonCommercial-ShareAlike**
  - CC BY-NC-SA

- **Attribution-ShareAlike**
  - CC BY-SA

- **Attribution-NonCommercial-NoDerivs**
  - CC BY-NC-ND

Translation on demand
## SEARCH RESULTS FOR: UNAWE

### PROJECTS

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<th>Description</th>
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<td><strong>EUNAWE: European Universe Awareness</strong></td>
<td>EUNAWE exploits inspirational aspects of astronomy and space to boost children's interest in science and technology, and to broaden their minds and stimulate European and global citizenship.</td>
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### NEWS

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<th>News</th>
<th>Description</th>
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<td><strong>Universe Awareness wins the SPORE award</strong></td>
<td>The Universe Awareness project (UNAWE), together with the Deadly Moons workshop, has been awarded the Science Magazine Prize for Online Resources in Education (SPORE).</td>
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<tr>
<td><strong>Universe in a Box: bringing astronomy to the classroom</strong></td>
<td>The UNAWE (Universe Awareness) project is developing ‘Universe in a Box,’ a low-cost activity kit to help teachers introduce astronomy to their students. It provides both practical activities and the</td>
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### EVENTS

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<th>Date</th>
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<th>Description</th>
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<tr>
<td>MAY 24</td>
<td><strong>EUNAWE: European Universe Awareness</strong></td>
<td>BELGIUM The global Universe Awareness (UNAWE) programme invites journalists, bloggers, educators, astronomers and astronomy enthusiasts to attend the public event presenting the new EUNAWE project: Making</td>
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Scientix European Conference

6-8 May 2011, Brussels

• Key note speech – Sir John Holman, UK
• Posters session
• 46 talks
• 2 Round tables
• 25 stands presenting EU funded projects
• 10 mini-workshops
• 379 participants from 37 countries
Scientix 2 European Conference
9 - 11 May 2014, Brussels (tentative)

• Key note speech
• Posters session
• Talks
• Round tables
• 25 stands presenting EU funded projects
• Workshops
• BUT this time...
Scientix 2 European Conference
9 - 11 May 2014, Brussels (tentative)

• Key note speech
• Posters session
• Talks
• Round tables
• 25 stands presenting EU funded projects
• Workshops
• BUT this time... **550 participants**
• AND we will be covering:
  • hotel accommodation for all
  • 200 flights for teachers

http://scientix.eu
The role of science education in tackling current societal problems, the EU’s Europe 2020 strategy, cross-border collaboration, school curricula, assessment models, learning resource repositories, teacher training: these are some of the topics – a snapshot – of what was discussed at the Scientix European Conference, on 6-8 May 2011 in Brussels.

The theme recurring throughout the conference, however, was the paramount part teachers play in changing the landscape of science education. As Sir John Holman, the conference key-note speaker, put it: no education system can be better than the people in it.

We would like to thank the teachers and other stakeholders who attended the conference, keen to share their experience, present their projects and start new collaborations. The positive and committed attitude of all of them shows that we are moving in the right direction towards a truly European science education community.

The Conference summary

- The conference programme (pdf)
- Poster session
- Photos (Flickr)
- Conference presentations online
Promote collaboration between projects

1. Project managers meetings / workshops (1 – 3 times a year). First one 17 – 18 Oct 2013 (tbc) // Future ones... with your events?

2. Scientix offers online meetings tool

3. Scientix workshops ←→ Project workshops
Abstract
Scientix, the European Commission’s DG Research and Innovation’s community for science education in Europe includes since January 2013 the Scientix Observatory which aims to provide short overviews on a number of topics related to Science education projects. This paper concentrates on the format, benefits and problems encountered in communities of practice (CoP) and chats carried out by four projects: inGenious, Xperimania V, DESIRE and FuturEnergia. While inGenious’ CoP last six weeks, DESIRE’s CoP are only three days long. When looking for answers to specific questions, the DESIRE format works better but requires the information to be completed by shorter events or face to face workshops. When tackling general topics, longer CoP open all the time and facilitated by teachers, ensure the participation of teachers inGenious and Xperimania V chats have experts replying via audio, while the FuturEnergia answers from the experts provided in writing, are better for schools with older technical equipment. The most efficient chats are carried out with a maximum of two experts, address up to 20 classes (400 pupils) and the chats have associated either an additional activity (like a competition) or the transcript which furthermore serves as an additional teaching resource.

Introduction
Scientix, the community for science education in Europe, was created to facilitate regular dissemination and sharing of knowledge and best practices in science education across the European Union. Scientix is open for teachers, researchers, policy makers, parents and anyone interested in science education. Scientix collects teaching materials and research reports from European science education projects financed by the European Union under the 6th and 7th Framework Programmes for Research and Technological Development (Directorate General Research), the Lifelong Learning Programme (Directorate General Education and Culture) and the ARTIC Network (Directorate General Enterprise and Industry).

Scientix observatory

Sharing Open Educational Resources in Multilanguage Repositories - the Learning Resource Exchange and Scientix

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Abstract: The article presents and compares two ways to stimulate sharing and exchange of online educational resources across different languages and educational settings: the Travel Well criteria for learning materials and the Scientix Translation on demand service. Special attention is paid to the general features of online resources in science and maths education and their practical implications for their successful re-use in various contexts. The conclusion outlines the conditions under which those two approaches yield the expected results.

Keywords: Science and maths education, Multilanguage online repositories, Translation and localisation of Open Educational Resources, European initiatives

1 Introduction
Scientix, the community for science and maths education in Europe, initiated by the European Commission (Research and Innovation DG), has set up the Scientix observatory to provide a regular overview of the state of play of different themes related to science and maths education. The themes and initiatives examined vary in duration, scope, audience and methodology, yet all of them include elements of e-learning and the use of various online tools for education, communication, or data collection.

This article discusses the issue of multilanguage online repositories, and the exchange of Open Educational Resources (OERs) across countries and language boundaries, an issue accentuated by the expansion OERs in the past 10-12 years (OECD, 2007, p. 100-108). A special emphasis is put on exchanging and promoting good practice resources in STEM (Science, Technology, Engineering and Mathematics) education. Two examples of different, though complementary,
Scientix
Scientix National Contact Points

[Map showing the distribution of National Contact Points across Europe]
http://scientix.eu
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http://scientix.eu

Danke