



Scientix – building a community for science education on Europe

Dr. Àgueda Gras-Velázquez
European Schoolnet, Brussels, Belgium



European Commission
Directorate-General for Research



SEVENTH FRAMEWORK
PROGRAMME



Scientix is financed under the European Union's Seventh
Framework Programme for Research and Development

European Schoolnet (EUN)



Network of
30 Ministries
of Education in Europe



Promoting the use of ICT
and digital technologies
in the classroom

Promoting the European
dimension in schools

Improving the quality of
education in Europe

Three areas of interest:

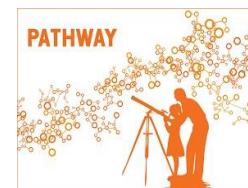
- services to schools,
- research and innovation,
- sharing of learning resources

EUN STEM Projects



GO-LAB

ONLINE LEARNING
BY EXPERIMENTING



Science Fairs Evaluation



**Chemistry:
All about You**

**AMGEN SCIENCE TEACHER
TRAINING INITIATIVE**

EUN STEM Projects



European science and maths projects



<http://scientix.eu>



SCIENTIX

The community for science education in Europe



EUROPEAN COMMISSION
Research & Innovation





SCIENTIX

Scientix 1: 2010 - 2012



Conference 2011



Portal

SCIENTIX
The community for science education in Europe

HOME

- PROJECTS
- RESOURCES
- NEWS
- EVENTS
- COMMUNITY
- CONFERENCE
- ABOUT

LATEST MEMBER: Loris Penserini

WANT TO BE A MEMBER? (820 MEMBERS)

LOGIN

OpenID

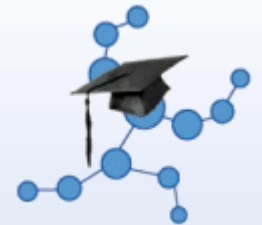
Latest Updates:

- NEWS: PISA in Focus: Is discipline in school deteriorated?
- TEACHING MATERIAL: EPOCA experiments: CO2 and pH
- PROJECTS: e-Bug: a microbiology and hygiene educational resource
- REPORTS: ASPRES reports
- TRAINING: Moodle for beginners

Tags: Computer Physics, Environment Ecology, Technology Biology, Energy Astronomy, Mathematics

Events for this month (June, 2011):

- Exp-Sciences International 2011 SLOVENIA
- How science works – and how to teach it DENMARK
- Gender and Interdisciplinary Education for Engineers – GRE 2011 FRANCE



Workshops





SCIENTIX

Scientix 2: 2013 - 2015



Conference 2014



Portal (disseminate projects)

The screenshot shows the SCIENTIX website interface with a navigation menu on the left and a main content area. The menu includes: HOME, PROJECTS, RESOURCES, NEWS, EVENTS, COMMUNITY, CONFERENCE, ABOUT, LATEST MEMBER (Loris Penserini), LOGIN, and WANT TO BE A MEMBER? (820 MEMBERS). The main content area features 'LATEST UPDATES' with articles like 'The fourth edition of PISA in Focus examines the relationship between classroom practice and the performance of the participating countries', 'EPOCA experiments: CO2 and pH', 'REPORTS ASPRES reports', and 'TRAINING Moodle for beginners'. There is also a 'TAGS' section with categories like Computer Physics, Ecology, Technology Biology, Energy Astronomy, and Mathematics, and an 'EVENTS FOR THIS MONTH' section for June 2011 listing events in Slovenia, Denmark, and France.

Workshops





SCIENTIX

Scientix 2: 2013 - 2015

Projectes Europeus de ciències



Promote collaboration between projects



Scientix National Contact Points

Scientix observatory



EDEN Annual Conference 2013
The Joy of Learning:
Enhancing Learning Experience and Quality

EDULEARN 13

OSLO
12-15 June

LINQ
2013

Fundació Catalana per a la Recerca i la Innovació
FCRI

HOME

[PROJECTS](#)
[RESOURCES](#)
[NEWS](#)
[EVENTS](#)
[COMMUNITY](#)
[CONFERENCE](#)
[ABOUT](#)

LATEST MEMBER



WANT TO BE A MEMBER?
(1468 MEMBERS)

Type here your Username/OpenID

If you have not created your OpenID on this website or if you are not using an European Schoolnet OpenID, please paste the whole OpenID.

⇒ [Create account](#)

⇒ [Forgot your password?](#)

ABOUT OPENID

[How to use the OpenID server and log in.](#)

SCIENTIX MOODLE

Home

LATEST UPDATES



NEWS: Second round of the Desire online discussions coming up in September 2012

The Desire project is organising the second round of its online discussion events. Register on the Desire portal and take part in the debate...

[Read more ...](#)



PROJECTS: PHYSFUN: Physics is fun

PHYSFUN aimed at bringing physics closer to the public and presenting current research in physics, its achievements and challenges in...

[Read more ...](#)



TEACHING MATERIAL
Make a Refractory Telescope



REPORTS
Using authentic questions with students in a museum setting



TRAINING
How to make the best use of Blogs

TAGS

agriculture algebra applied sciences

astronomy biochemistry

biology biotechnology botany

celestial body chemistry climate

computer computer science earth sciences ecology education education for sustainable development educational institution energy engineering environment environmental education food genetics

geography history language light

mathematics medicine natural sciences optics **physics** science

education simulation space tale

technology universe zoology

[See more tags](#)



Present your STEM project at EUCYS 2012, in the Scientix stand!

21 - 26 September
Bratislava, Slovakia

EVENTS FOR THIS MONTH

September, 2012



SEP 02

SEP 07

International Conference on Science Communication "Les Journées Hubert Curien" / 2012
FRANCE

SEP 08

SEP 07

Teacher training: Nanotechnology in an Open Lab

Projects: e.g. UNawe

<http://www.unawe.org/>



Inspiring every child with our wonderful cosmos



Search

Find Us Online At



[Home](#) [About](#) [News](#) [Network](#) [Resources](#) [Events](#) [Get involved](#) [Subscribe](#) [Contact](#)



Do Stars have a Pulse?

12 June 2013

News



"Space Skype" Links Kids from Across the World!
13 June 2013



The Wonderful Century - A Symposium for George Miley
11 June 2013



Travelling around Earth with Spacey
10 June 2013



+ News



Winner of **Science** SPORE Award **MAAS**

Space Scoop

Astro News for Children

HOME

PROJECTS

RESOURCES

NEWS

EVENTS

COMMUNITY

CONFERENCE

ABOUT

LATEST MEMBER



WANT TO BE A MEMBER?
(1700 MEMBERS)

Type here your Username/OpenID

If you have not created your OpenID on this website or if you are not using an European Schoolnet OpenID, please paste the whole OpenID.

⇒ [Create account](#)

⇒ [Forgot your password?](#)

SCIENTIX MOODLE



BASIC INFORMATION

RESEARCH INFORMATION

TEACHER INFORMATION



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 (UNAWA) 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 UNAWA 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 Politècnica de Catalunya, Spain, <http://www.upc.edu>

Armagh Observatory and Planetarium, UK, <http://www.arm.ac.uk>

(72 results)

1 2 3 4 5 6 7 8

1

Open article to determine the distance of Venus from Earth



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 know...[Know More](#)

Creative Commons license:

Project: Eunawe

View this in:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

Request translation:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv



0 [Add to favourites](#)

[Report](#)

1

Utilizando un video animado de Ptolemaio



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

Descriptor: universe, celestial body, astronomy, space

HOW ARE DRUGS DEVELOPED? - TAKE PART IN THE RESEARCH OF A DRUG

Descriptor: biology, biotechnology, medicine

Age: > 10 **Resource type:** Not found guide lesson plan tool

Description: Science centres, museum and schools have a change to rep...[Know More](#)

Creative Commons license:

Project: Xplore health

View this in:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

Request translation:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv



INGENIOUS: IT'S ALL ABOUT ENERGY

Descriptor: physics, climate, materials, chemistry, safety, waste management, environmental education, gas, oil, electrical energy, sciences, electricity, fossil, energy

Age: 14-18 **Resource type:** guide glossary tool application assessment lesson plan

Description: A series of lessons about the future of energy, petroleu...[Know More](#)

Creative Commons license:

Project: Ingenious

View this in:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

Request translation:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv



0 [Add to favourites](#)

[Report](#)



THE SAD STORY OF THE THREE SIBLINGS

Descriptor: universe, celestial body, mythology, children's literature, astronomy, space, tale, legend

Age: < 9 **Resource type:** text image

Description: An Arab myth from the 10th century about a brother and t...[Know More](#)

Creative Commons license:

Project: Eunawe

View this in:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv

Request translation:

en - bg - cs - da - de - el - es - et - fi - fr - ga - hu - it - lt - lv - mt - nl - pl - pt - ro - sk - sl - sv



0 [Add to favourites](#)

[Report](#)

Translation on demand



The Licenses



Attribution
CC BY



Attribution-NoDerivs
CC BY-ND



Attribution-NonCommercial-ShareAlike
CC BY-NC-SA



Attribution-ShareAlike
CC BY-SA



Attribution-NonCommercial
CC BY-NC



Attribution-NonCommercial-NoDerivs
CC BY-NC-ND

SEARCH RESULTS FOR: UNAWE

PROJECTS



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.

[Read more...](#)

[View all](#)

NEWS



Universe Awareness wins the SPORE award

The Universe Awareness project (UNAWE), together with the Deadly Moons workshop, has been awarded the Science Magazine Prize for Online Resources in Education (SPORE).

[Read more...](#)



Universe in a Box: bringing astronomy to the classroom

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

[Read more...](#)

[View all](#)

EVENTS

MAY

24

EUNAWE: European Universe Awareness

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...

[Read more...](#)





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

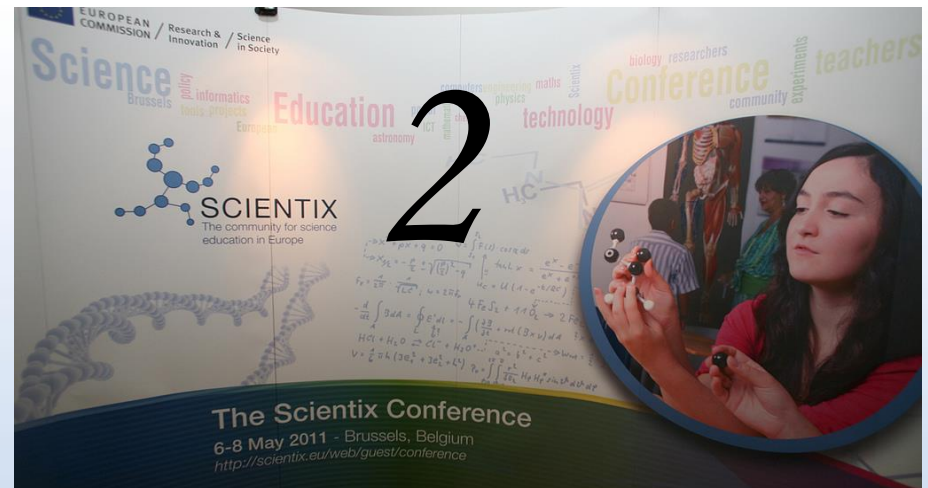


Scientix 2 | A. Gras-Velazquez
18/06/2013 | Heidelberg, Germany
ASTRONET

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...



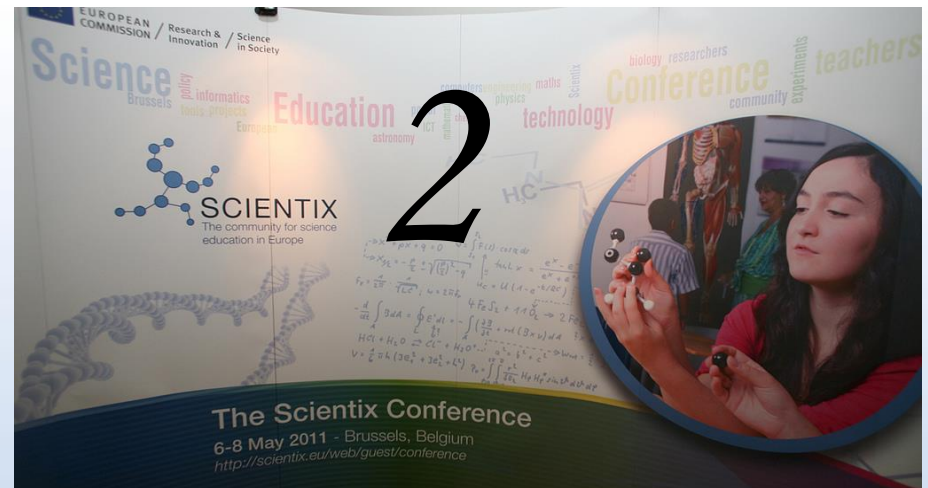
Scientix 2 | A. Gras-Velazquez
18/06/2013 | Heidelberg, Germany
ASTRONET

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>



SCIENTIX EUROPEAN CONFERENCE



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](#)

HOME

PROJECTS

RESOURCES

NEWS

EVENTS

COMMUNITY

CONFERENCE

ABOUT

LATEST MEMBER



WANT TO BE A MEMBER?
(828 MEMBERS)

LOGIN

OpenID

- [Create account](#)
- [Forgot your password?](#)

ABOUT OPENID

[How to use the OpenID server and log in.](#)



European Commission
Directorate-General for Research



Scientix 2 | A. Gras-Velazquez
18/06/2013 | Heidelberg, Germany
ASTRONET

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 \leftrightarrow Project workshops

ONLINE SESSIONS

Avui ← → juny de 2013 ▼ Imprimeix Setmana Mes Agenda

dl.	dt.	dc.	dj.	dv.	ds.	dg.
27	28	29	30	31	1 juny	2
		14:00 NanOpinion		10:30 DESIRE pa		
3	4	5	6	7	8	9
10	11	12	13	14	15	16
	11:00 nanOpinion					
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Esdeveniments mostrats a la zona horària: Brussel·les Google Calendar

Scientix Online Meetings Form

1. When do you want to start your online meeting (Brussels time)?
Check availability in the calendar above. Choose a time from 8h to 19:50h.

DD MM YYYY HH MM AM/PM
· / / : -

2. End time

Remember to use local time in Brussels (CEST) : -

ASTRONET

Scientix observatory

The Joy of Learning
Enhancing Learning Experience - Improving Learning Quality
Proceedings of the European Distance and E-Learning Network 2013 Annual Conference
Oslo, 12-15 June, 2013
ISBN 978-963-89559-3-7



THE SCIENTIX OBSERVATORY: ONLINE COMMUNICATION CHANNELS WITH TEACHERS AND STUDENTS – BENEFITS, PROBLEMS AND RECOMMENDATIONS

Agueda Gras-Velazquez, Barbara Schwarzenbacher, Evita Tasiopoulou, Maite Debry, Mathilde Bargoin, European Schoolnet – EUN, Belgium, Irina Kudenko, Myscience, United Kingdom, Maria Isabel Hernández Rodríguez, Centre for Research in Science and Mathematics Education – Autonomous University of Barcelona, Spain

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 know-how 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)

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

Premysl Velek, Victor J. Perez Rubio

European Schoolnet, Rue de Trèves, 61, B – 1040 Brussels, Belgium,
premysl.velek@eun.org

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



European Commission
Directorate-General for Research



Scientix 2 | A. Gras-Velazquez
18/06/2013 | Heidelberg, Germany
ASTRONET

Scientix National Contact Points



http://scientix.eu

LATEST MEMBER



WANT TO BE A MEMBER?
(1693 MEMBERS)

Type here your Username/OpenID

If you have not created your OpenID on this website or if you are not using an European Schoolnet OpenID, please paste the whole OpenID.

- ⇒ [Create account](#)
- ⇒ [Forgot your password?](#)



SCIENTIX

The community for science education in Europe

NEWSLETTER

Your email address:

Subscribe



FOLLOW US ON TWITTER

More information

European Schoolnet - Science Programme Manager // Scientix project manager
Àgueda Gras-Velázquez, European Schoolnet, Brussels, Belgium
(agueda.gras@eun.org)

<http://scientix.eu>

Danke