International cooperation towards an improved science education

The Hands-on Science Network

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PORTUGAL
Back in 2003 the Hands-on Science Network was established as an EU Socrates/Comenius 3 project.

Our aim was to contribute to the generalization innovation and improvement of Science & Technology Education at basic vocational training and secondary schools by hands-on experimental investigative practice in the classroom

... bringing hands-on active learning of Science into the classroom and into the soul and spirit of the School ...
“We learn how to do by doing the things we are learning to do”

(Aristotle)
The main goal of the Hands-on Science network is to promote hands-on investigative experiments based learning of Science improving Science Education and Scientific Literacy.
broad open understanding of the meaning and importance of Science open to all pedagogical approaches that may contribute to the effective implementation of a sound widespread Scientific Literacy and Science Education
Formal, informal and non-formal education
from the kindergarten to adult and lifelong learning
Educating for Science and through Science
Leading the students to an active volunteer and committed participation in the teaching/learning process through hands-on investigative practice and experimentation, making intensive use of the new instruments and resources of the Information Society.

Critical reasoning and Observation Method

Responsibility

Active commitment

Self confidence
Workshops/Thematic conferences


Comenius Contact Seminars

Training courses for school teacher

(Experiments in the classroom, Hands-on Optics, School’ Robotics, Hands-on Science and Computer Simulations)

Contest “IDEAS FOR SCIENCE FAIRS”

Science Fairs

Robotics Festivals

Comenius Grundtvig FP7 and TEMPUS projects

Lectures and demonstrations
HSCI conferences
Eleven HSCI conferences

- HSCI2005: http://www.clab.edc.uoc.gr/2nd/
- HSCI2011: http://colos.fri.uni-lj.si/mptl_hsci/
- HSCI2013: http://www.hsci2013.info
Empresas 1.3%
Agencias Gubernamentales 2.6%
Museos 4.7%
Centros de Investigación 5.5%
Asociaciones 6.3%
Estudios Preuniversitarios 23.0%
Universidad 56.2%

Chipre 2.9%
Alemania y EEUU 3.1%
Bélgica, Malta y Taiwán 3.7%
Reino Unido y Turquía 4.0%
España 5.6%
Grecia 7.6%
Brasil 10.4%
India 11.5%
Rumanía 13.5%
Portugal 27.8%

Suecia 0.5%
México y Polonia 0.8%
China, Irlanda y Rusia 0.8%
República Checa 0.9%
Italia y Austria 1.4%
Argentina, Armenia, Australia, 1.5%
Eslovaquia, Holanda, Irán, Serbia,
Pakistán, Suiza, Tailandia, Hungría,
Francia y Ucrania 1.6%
Eslovenia 2.4%

Aprendizaje Conceptual 6.0%
Química 6.1%
Aprendizaje Informal 6.4%
Biología y Geología 7.0%
Alfabetización Científica 7.7%
Desarrollo Sostenible 8.8%
Actividades manipulativas 10.3%
TIC 11.0%
Física 15.3%

Formación del Profesorado 2.3%
Educación e Investigación Científica 2.4%
Mujer y Ciencia 2.6%
Matemáticas 2.8%
Robótica 3.2%
Educación Científica en el Mundo 3.9%
Ferias de Ciencia 4.2%
HSCI2008
Proceedings of the 5th International Conference on
Hands-on Science
Formal and Informal Science Education
October 13-17, 2008
Espaço Ciência, Olinda-Recife, Pernambuco, Brazil

The Hands-on Science Network

HSCI2009
Proceedings of the 6th International Conference on
Hands-on Science
Science for All: Quest for Excellence
October 27-31, 2009
Science City, Ahmedabad, INDIA

The Hands-on Science Network
HSci2010
7th International Conference Hands-on Science
Bridging the Science and Society gap
July 29-31, 2010 - Greece
The University of Crete campus at Rethymno
http://www.ct.uoc.gr/HSci2010/

HSCI2011
Proceedings of the 8th International Conference on
Hands-on Science
Focus on multimedia
(Jointly co-organised with MPTL'16 - Workshop on Multimedia in Physics Teaching and Learning)
September 15 to 17, 2011
University of Ljubljana, SLOVENIA

The Hands-on Science Network
Our conferences
HSCI’2015
Funchal, Madeira Island, Portugal
July 27-30, 2015

www.hsci2015.info
Obrigado

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