

SUPERCOMET 2 - Superconductivity Multimedia Educational Tool, phase 2



Project meeting in Udine, Italy, where we are discussing learning activities related to magnetism



Superconducting pellets produced at the University of Munich for testing at teacher seminars, etc.

Type of project

Pilot

Contractual year

2004

The Challenge

Since the start-up of the SUPERCOMET project in 2001, a number of new conferences and surveys (PISA, TIMSS, Physics on Stage 2, Science on Stage, GIREP, MPTL) have confirmed that there are still problems on a European level in recruiting competent teachers. There are also challenges concerning the level of competency among pupils in mathematics and natural sciences, particularly in physics.

Short Description

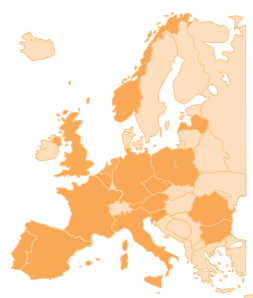
The project builds on the results of SUPERCOMET and ePhys projects, and has recruited its partnership from GIREP (The International Group for Research into Physics Education) and MPTL (The European Physical Society workgroup for Multimedia in Physics Teaching). In addition to the project aims, we wish to develop a model for learning materials and resources for blended learning based on modern pedagogical theory. This can be followed up in future projects through the established partner network.

Objectives

The SUPERCOMET 2 project has two main aims/activities. One is translating the teacher seminar, teacher guide and electronic learning modules developed by the SUPERCOMET project to approx. 10 new languages, testing and adapting it to local curricula in a total of 15 European countries. The other main aim is further development of the materials based on these tests as well as previous tests from the SUPERCOMET project.

Target Group

The primary target group is upper secondary school physics teachers - both those with a formal background in physics and those with other backgrounds who might have an increased need for easily understandable, good quality



teaching materials in a subject the are not fully qualified for. The end users are the pupils.

Responsible Organisation

Simplicatus AS

Contact person

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Participating countries

Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Italy, Latvia, Netherlands, Norway, Poland, Portugal, Romania, Spain, UK

Partnership description

The project has a total of 40 partners in 15 countries. 14 universities in 13 countries participate as development and dissemination partners. 24 upper secondary schools are testing partners in the project, and around 30 additional schools participate as associated 'testing schools'. The Institute of Education at the University of London participates as Evaluator, and Simplicatus AS is the only corporate partner. The e-learning company Timsoft Ltd. in Romania carries out tasks equivalent of a developing partner as a subcontractor.

Expected outcomes and when

The project deliverables include a teacher seminar in several half day modules, a printed teacher guide with extensive additional electronic materials, as well as new and revised e-modules with animations and text explaining the phenomena of electricity, magnetism and superconductivity. These will be available during the fall of 2007. The English version will be presented at the Final Conference in Poland in Sept. 2007.

Project website

www.supercomet.no

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Education and Culture

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