



Universität Bayreuth, Didaktik der Chemie, AkadOR W. Wagner

II. SANEDU Meeting

As stated during our first meeting in Bruxelles the aim of this second meeting will be finding a subject suitable for cooperation of the member departments as well as finding a source for funding our work. We choose two different proposals we will submit to the members in the morning; in the afternoon there should follow discussions and a decision.

Proposal No. 1: Visualization in Science Education

This issue probably is most seminal and most interesting to work on.

Every teacher will take it for granted, that using pictures or sketches additionally to written text or the spoken word will enhance teaching results. His or her task will be to choose an **appropriate** picture or to design a **helpful** sketch. But: do we have evidence, which kind of picture is helpful or appropriate and which is not? Can we tell our students how to avoid counterproductivity of a sketch? Do we have criteria to tell „good“ sketches from bad ones? The answer seems to be: no. From neurophysiology and brain sciences there have been a few results during the last decade which could provide some useful hints about the impact of pictorial representation compared to semantic representation only. Our aim could be to find out about empirical evidence from communication and educational sciences and respective neuroscience research results. On this basis we could create examples and formulate rules for „good“ visualization from the point of view of our subjects.

W. Wagner will give an overview of first results from a project „Bilddidaktik“. The project is not finished yet and will not provide final solutions after its termination – so there will be let enough to do for us.

Proposal No. 2: Disseminating the results of the SINUS project

By cooperating with government authorities in this regard this issue might be more probably to be funded by the EU.

SINUS is derived from ("Steigerung der Effizienz des mathematisch-naturwissenschaftlichen Unterrichts") (improvement of the efficiency of mathematics and science education). It is a widely span project that has been running in two steps from 2003 in as many as 13 countries of the German Federation. D. Raab is a member of the steering committee will detail for us the aims, the structure and basic results of the project and its possible outreach for european countries. Basic information is available in english:

<http://sinus-transfer.uni-bayreuth.de/home.html>

AGENDA

15th February 2008

9.00	Welcome and presentation Introduction to Science Education Research and Development	Dr. Harriet Axelsson
9.45 – 11.30	Proposal 2: Dissemination of the results of the austrian IMST project through the EU (resp. our countries). The IMST project and its results in Austria.	Konrad Krainer
11.30 – 12.30	Lunch	
12.30 – 14.00	Proposal 1: Visualization in Science Education. Results from the DEMO project.	Walter Wagner Dr. Katrin Vogt
14.00 – 14.30	Coffee break	
14.30 – 17.00	Discussion, decision and further collaboration. Funding options.	Dr. Harriet Axelsson Wioletta Węgorowska