

The SALiS-Project in Berlin

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Visit of SALiS Partners in Berlin – June 2011

The FUB SALiS-group organised visits for the colleagues of the partner countries to Berlin in June 2011. Staff members from the Academic Arab College of Education (Israel), the Iliia State University and Kutaisi State University (Georgia), and from the University of Academy of Sciences of Moldova visited the Department of Chemistry Education at the FUB. All guests attended

- lectures and seminars for students (*picture 1*),
- out-of-school science courses (KieWi) for primary school children (*picture 2*)
- in-service teacher training courses (*picture 3*).

Beside the talks during and after the different sessions there were intensive discussions about science education and lab equipment for inquiry-based learning (*picture 4*).



SALiS-Courses for Teachers – June 2011 to April 2012

During the project the FUB SALiS-group developed two teacher training courses for primary and secondary school teachers and conducted the courses several times. The focuses were on

- **Inquiry learning** with every day life products and on
- **Lab techniques** (esp. for science teachers in primary schools).

Each course started with a short introduction followed by a lab session where the participants had the opportunity to try out prepared examples of learning materials and experiments. Subsequently the teachers had time to discuss their experiences and ideas; time to give feedback also were offered.



SALiS Pre-Service Teacher Seminar – January to July 2012

In special courses for pre-service chemistry teacher students the students planned and carried out a project week to the topic “**Air pollution and climate change**” for pupils of grade 7 of a cooperating school. The aim of this cooperation between school and university is, on the one hand, to give the pupils an educational opportunity that enables them to intensively deal with the topic in an **inquiry-based** and **active learning** way.

On the other hand, the pre-service teacher students were provided with the opportunity to gather first practical teaching experiences within their Bachelor degrees because the planned science lessons were carried out by themselves in authentic teaching situations. In consultation with the teachers of the school a central task for the pre-service teacher students was to put greater emphasis on integrating **socio-scientific contexts** and an **hands-on focus** into the planning and realization of the project week.



SALiS in Aachen: Pre-Service Teacher Training – November 2011 to July 2012

A hands-on seminar with the focus on school-relevant SALiS-oriented experiments at RWTH Aachen University were conducted in winter term 2011/12 and summer term 2012. In these seminars contents of the **SALiS curriculum** (inquiry learning, active learning, low-cost-techniques, motivation) were integrated. The students had the task to develop a sequence of SALiS-lessons in small groups: Starting point was an **every day life product** which the students had to explore. Then they **formulated questions and assumptions** and **planned and carried out experiments** to test their assumptions. These sequences for inquiry learning and the experiments were presented and discussed in plenary sessions.

