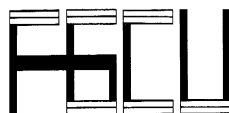




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24.08.09

Report 2008/2009**1. Abstract**

The German Chemical Society supports different education programs as in the previous years, for example the in-service teacher training centres with more than 10.000 participants in 2008. The range of courses covers all school levels from elementary and primary up to specialised topics for upper secondary education.

On tertiary level, most universities have successfully implemented Bachelor and Master programs. However, there are no statistics yet about career pathways of students who have left the university with a Bachelor degree in chemistry.

The annual conference of the division of chemical education had been hosted in Potsdam in 2008 and offered experimental presentations as well as research discussions. Both were perceived very well by university educators, researchers and teachers.

2. National Educational Policy***Secondary Level and below***

As in the previous years, the German Chemical Society and the chemical industry (Fonds der Chemischen Industrie / VCI) are funding centres for in-service training of chemistry teachers at seven universities with a total amount of about 305,000 Euro. In 2008, about 640 courses were offered with about 10,700 participants. More courses were offered in cooperation between universities and industry and also between universities and regional schools to inform teachers about current developments in research and industry and to engage also local communities of teachers into the teacher training programs.

Courses for primary and elementary education are common at almost every centre now, as well as science laboratories for school students. Many universities additionally use such science lab courses as modules of their teacher student education (pre-service teacher training).

The National Standards have led to the development of new curricula and syllabuses in most German states up to now, and their implementation process is currently in progress. The division of chemical education of the German Chemical Society is regularly contacted to comment the new chemistry syllabuses.

Tertiary Education

Following the Bologna process, Bachelor and Master courses have been implemented at many universities. So far, most students go on with their studies to get a Master degree, only a few have left university with a Bachelor degree and there are no evaluation studies yet about their career pathways.

The new brochure "studying chemistry" was widely spread (Federal Employment Agency, Chemical Industry, Universities, Schools) and offers students a helpful insight into the different study courses and fields of activities.

Further information about chemistry studies and career perspectives can be found at <http://www.chemie-im-fokus.de/start.htm> (German and English version).

3. Activities of the National Chemical Society (GDCh) and the Chemical Industry Association (VCI) regarding education (for other topics see the annual reports of the GDCh and the VCI)

The support of teacher training and school programs have been named in section 2.

The annual meeting of the GDCh division "Chemieunterricht" (chemical education) was held in Potsdam in 2008. Three plenary lectures and many oral presentations and posters had been presented, covering a broad variety of topics from primary up university level and, as usual, combining experimental presentations with discussions of current research in the area of chemistry education.

4. New Publications

The chemistry education division's journal "Chemkon" has got a new advisory board and the new cover will be followed by a new layout in 2010. The journal presents articles both from research and from school and university practice and is aiming at chemical educators of all German speaking countries.

The magazine "High Chem" informs a broad audience about important topics and developments in chemistry, also relevant for education.

The journal "ChemSusChem" has been added to the long list of publications by the GDCh.

5. Liaison with the Chemical Industry

See 2.

6. International Initiatives

The preparation for the third European Chemistry Congress is continuously in progress. Additionally, the GDCh will support the International Year of Chemistry 2011 which will also be a topic for the next meeting of the education division in September 2009.

7. CV of the delegate

Ilka Parchmann has become a professor for chemical education at the University of Oldenburg in September 2004. Before, she was an associate professor at the Leibniz Institute for Science Education (IPN) at the University of Kiel. She has a teaching degree for secondary education in chemistry and biology and got her doctoral degree in 1997 at

the University of Oldenburg for her research and developmental work about the teaching and learning of environmental topics in science education. Following up her doctoral work, she started the project *Chemie im Kontext* (ChiK) in 1997, after studying the Salters project in York (UK) as a post-doc-student. This project is still one of her major fields of interest, and she carries out research and developmental work in the areas of context-based learning. The implementation of innovations into school practice and the design and analyses of the effectiveness of teacher training and teacher professionalisation are two other important fields of her work.