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Views of German chemistry teachers on creativity in chemistry classes and in general

Luzie Semmler and Verena Pietzner^a*

Creativity has become an increasingly important competence in today's rapidly changing times, because economics and industries depend on innovation. Creativity is therefore a requirement for school graduates, especially for the ones who strive to pursue a technical or scientific career. But creativity has not been integrated into the curricula of STEM subjects in many European countries like Germany. To successfully integrate it in the classroom, it is important to investigate teachers' views and conceptions on creativity, because they have an influence on teaching and lesson planning. This is the purpose of this study. To investigate the views and conceptions, a research instrument especially designed for this study is used. It includes the creation of two concept maps and filling out a questionnaire. The study was carried out using fifteen German chemistry teachers. The evaluation of the data was made qualitatively as well as quantitatively. It has revealed that almost all of the teachers in this study had a positive attitude towards creativity and had experiences referring to integrating creativity into their own chemistry lessons. But not all of these experiences are good ones and there were some aspects with regard to creativity in general, where uncertainties could be identified.

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Introduction

Creativity is a term for which no standard definition exists. What is called creative, is subjective and therefore individual. Especially in Europe, creativity research remained a neglected area for a long time (Urban, 1991). However, creativity has become an important competence for today's rapidly changing time, because economies depend on innovative and creative workers to be successful in the global competition (Ward, 2007; Sawyer, 2012, p. 38f). The European Union also realised the importance of creativity for economies, science and social development, especially referring to global challenges such as climate change. According to it, creativity is the main source of innovation and promoting creativity is a goal of the European community (Andiliou and Murphy, 2010). Therefore, creativity is a requirement for school graduates, but in Germany it has still not been made an integral part of school education. Especially in STEM subjects, which are of special importance with respect to coping global challenges and furthering technical and scientific progress, creativity is not mentioned in curricula, so it can be assumed that it is not integrated in the lessons. This is confirmed by the fact that teachers and students from Europe and the US, who were surveyed in various studies, view music, art, drama and handicraft subjects as more

appropriate to implement creative thinking than STEM subjects, as these subjects are more open and practical (Aljughaiman and Mowrer-Reynolds, 2005; Kampylis *et al.*, 2009; Newton and Newton, 2009). Furthermore, Aljughaiman and Mowrer-Reynolds (2005) found out that teachers showed a lack of knowledge about creativity and the characteristics of creative students, so that teachers inhibit the promotion of creative characteristics because they prefer a non-creative behaviour which they promote. Therefore, the teachers are not qualified to identify and facilitate creative behaviours. Because of that it can be a problem for those teachers to foster and support creativity in their students.

All of these aspects suggest that creativity is not integrated and not supported by the teachers in the lessons of STEM subjects. In addition, the teachers do not seem to have the necessary knowledge to integrate it in class and to promote creative skills in their students. However, the STEM subjects are important for technical occupations where innovation and creativity are required especially referring to global challenges and the international comparison of technical and scientific progress. Therefore, it is important that teachers appreciate the importance of creativity for the professional world and for the students and they have the necessary conditions to integrate creativity in class. These conditions include an appropriate knowledge of the teachers to implement creativity in the classroom and to identify and promote creative characteristics and skills in their students, a positive attitude towards creativity and the necessary self-confidence in their own creative abilities

*Chemistry Education, Institute of Chemistry, University of Oldenburg (Germany), Carl-Neuberg-Strasse 9-11, 26129 Oldenburg, Germany.
E-mail: luzie.semmler@uni-oldenburg.de, verena.pietzner@uni-oldenburg.de*

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