

23rd International Conference on **Advanced Materials**
June 20-21, 2018 Oslo, Norway

&

10th International Conference on
Chemistry Education and Research
June 21-22, 2018 Oslo, Norway



Eva Trnova

Masaryk University, Czech Republic

Changes in science education for the 21st century

Science education including chemistry is undergoing changes due to its increasing importance these days, as it faces economic and social challenges. It is possible to register these changes in most European countries as well as the USA. Society requires to prepare the younger generation for the 21st century. We need a workforce with generally higher levels of STEM (Science, Technology, Engineering and Mathematics) literacy, as well as a sufficient number of highly gifted individuals entering scientific and engineering careers. To carry out these requirements, it is necessary to change way of education and to find its appropriate content. Experts are trying to define a new paradigm of science education. But in order to be successful, important curricular changes have to be accepted by all of the stakeholders in education: students, their parents, politicians and especially by teachers, who should implement these curricular changes into practice. We will present research findings of the Czech Republic concerning the identification of views on science education, what opinions on current science education are held by stakeholders and what priority should be preferred in their opinion. The appropriate content of school chemistry will be discussed.

Biography

Eva Trnova is a Senior Lecturer at the Faculty of Education MU in the Czech Republic. She has completed her PhD in Chemistry Education. She has extensive experience with innovative methods of teaching Chemistry. She has been engaged in Chemistry Education for a long time and she has published more than 20 papers in journals and has been serving as an Editorial Board Member of journal dealt with education. She is a Member of International Advisory Board in several conferences. She has been involved in many international projects dealing with the development of science education (e.g. PROFILES Project of SFP).

eva.trnova@email.cz

Notes: