

Innovations, Trends and Research in Science Education in Central Europe

Didsci+ 2019
and
IOSTE 2019



Book of Abstracts



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Trnava, 25-27 June 2019

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Book of Abstracts

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and

IOSTE 2019

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Trnava University in Trnava

Trnava 2019

Faculty of Education

Department of Chemistry

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PREFACE

Tradition of conferences and symposiums brings the scientific community closer together, establishes cooperation, exchanges information and experiences among academics. Initially the regular meetings of Czech and Slovak experts in chemistry education have gained an international dimension and its scope extended to science education.

We meet at the second international conference under the acronym **DidSci+**, which will circulate among organizers from Central Europe (at least Czech Republic, Slovakia, Poland). This meeting of experts in science education is significant as the portfolio of traditional conference participants expanded by collaboration with **IOSTE** and its Central and Eastern Europe Committee. We expect that this cooperation will have a greater impact on science education in the future.

The conference **DidSci+ 2019** focuses on inquiry-based science education, pre-service science teacher preparation, continual professional development of in-service teachers, innovations, technology and various approaches to science education, as well as methodological aspects of science educational research. However, we want to draw your attention to the topic of science curriculum and its innovations as the number of participants present outcomes of the finishing project supported by Slovak Research and Development Agency focusing on renovation of national curriculum.

We believe that presentations stimulate interesting and fruitful discussions and the conference will be a successful milestone in an international cooperation improving the state and prospects of science education in the region.

Editors

GEOGRAPHY INTERACTIVE TEACHING MATERIALS FOR PRIMARY SCHOOLS

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In elementary schools, after the reform of education, there is still a lack of comprehensive electronic learning materials appropriate to supplement textbooks, which would be prepared according to the State Education Program. These ones available are incomplete and contain only a limited part of the subject matter with different processing quality. The aim of this contribution is to create a set of electronic teaching materials for teachers and pupils covering the whole geography curriculum for elementary schools according to the currently valid State Education Program. These innovative materials consist of tasks, which are enriched with images, maps, audio, video, animations, or short films. We use the Chamilo e-learning management system, a special interactive software, to create, update and manage training tasks, which are part of various courses, projects and modules. The created interactive teaching materials will improve the current explanatory part of the teaching, worksheets and tests. The creation of worksheets, dissemination tasks and tests will be in synergy with practice, and materials will be continuously validated, complemented and evaluated at selected primary schools. E-learning teaching materials will contribute to simplification, efficiency improvement and making the learning process more attractive. These materials can better motivate and activate pupils and help them to expand and deepen knowledge, but also to remember them for longer time.

Keywords: e-learning, primary schools, geography, interactive teaching materials

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