

**Univerzita Karlova – Pedagogická fakulta**  
**Charles University – Faculty of Education**



20<sup>th</sup> International conference

**PROJECT-BASED AND OTHER STUDENT-ACTIVATION STRATEGIES AND  
ISSUES IN SCIENCE EDUCATION**

**XX.**

## **PROGRAM / PROGRAMME**

3. – 4. 11. 2022

Konference je pořádaná pod záštitou děkana Pedagogické fakulty Univerzity Karlovy  
prof. PaedDr. Michala Nedělky, Dr.

The conference is held under patronage of dean of the Faculty of Education, Charles University  
prof. PaedDr. Michal Nedělka, Dr.

## **ORGANIZAČNÍ VÝBOR / THE ORGANISATION COMMITTEE**

### CHAIRMAN

doc. PhDr. Martin Rusek, Ph.D.

### MEMBERS

Mgr. Dominika Koperová, PhD.

PhDr. Martina Tóthová

**Čtvrtek / Thursday 3. 11. 2022**

**13:00 – 13:30**      **CONFERENCE OPENING – AULA**

**Plenary Section – AULA**

*Chairman: assoc. prof. Martin Rusek*

**13:30 – 14:15**      **INTEGRATED STEM EDUCATION AS A MEANS TO IMPROVE SCIENCE EDUCATION: A BLIND ALLEY?**

Radu Bogdan Toma

**14:15 – 15:00**      **PROJECT-BASED EDUCATION AND CREATIVE ACTIVITIES IN STEAM LEARNING**

Kristóf Fenyvesi

**15:00 – 15:30**      **COFFEE BREAK – BIG HALL**

**Section 1 – Issues of Science teacher training (ENG) – AULA**

*Chairman: prof. Martin Bílek*

**15:30 – 15:50**      **WHAT IS IT THAT NOVICES DON'T SEE?: AN EYE-TRACKING STUDY ON PROBLEM-SOLVING PROCEDURE**

Martina Tóthová, Martin Rusek

**15:50 – 16:10**      **OPENSCHOOLING THROUGH THE EYES OF EXPERTS**

Svatava Janoušková, Martin Bílek, Veronika Scholzová

**16:10 – 16:30**      **PROMOTING PEDAGOGICAL SCIENTIFIC LANGUAGE KNOWLEDGE IN UNIVERSITY TEACHER TRAINING**

Corinna Mönch, Silvija Markic

**16:30 – 16:50**      **PRIMARY STUDENT TEACHERS' IDEAS ABOUT STEAM LEARNING ENVIRONMENTS AND ACTIVE LEARNING IN THEM**

Anssi Lindell, Pasi Nieminen, Terhi Mäntylä

**16:50 – 17:10**      **PLANNING LOW-BARRIER PROBLEM-SOLVING CHEMISTRY CLASSROOMS USING THE CHEMDIVE PLANNING TOOL**

Monika Hollaender, Insa Melle

**17:10 – 17:30**      **PROJECT DOSLECTEP - THE OUT-OF-SCHOOL SCIENCE EDUCATION IN THE INTERNATIONAL PERSPECTIVE**

Martin Bílek, Ahmet Ilhan Sen, Tugba Yuksel, Ibrahim Delen, Ozlem Oktay, Marek Skorsepa, Martin Lindner, Jarmila Kmetova, Martin Rusek, Vesna Milanovic, Florian Woithe

**17:45 – 18:10**      **CULTURAL PROGRAMME – BIG HALL**

**18:10**              **DINNER/SOCIAL EVENING – BUFFET / BIG HALL**

**21:00 – 22:00**      **SCIENCE EDUCATION PUB QUIZ – BIG HALL**

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AND ISSUES IN SCIENCE EDUCATION**

**XX.**

**BOOK OF ABSTRACTS**

*Martin Rusek & Martina Tóthová (Eds.)*

3. – 4. 11. 2022

Prague

## THE ORGANISATION COMMITTEE

Doc. PhDr. Martin Rusek, Ph.D.

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PhDr. Martina Tóthová

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## PROJECT DOSLECTEP - THE OUT-OF-SCHOOL SCIENCE EDUCATION IN THE INTERNATIONAL PERSPECTIVE

*Martin Bílek, Ahmet Ilhan Sen, Tugba Yuksel, Ibrahim Delen, Ozlem Oktay, Marek Skorsepa, Martin Lindner, Jarmila Kmetova, Martin Rusek, Vesna Milanovic & Florian Woithe*

### **Abstract**

The Erasmus+ project “Developing an Out-of-School Learning Curriculum for Teacher Education Programs (DOSLECTEP)” was carried out by a team of academics from four European countries (Germany, Czechia, Slovakia, and Turkey). The project aimed at developing a new curriculum following the Bologna Process guidelines which would promote out-of-school education in formal education environments. The modules including learning materials and activities, can be used in out-of-school learning courses in science teacher education programs and secondary schools. The main outputs are an eBook and a curriculum which includes learning modules. The eBook contains a cross-cultural analysis of out-of-school learning in Europe and offers literature for all out-of-school studies, venues, and learning materials used in participating European countries but also others. The curriculum consists of four different modules, moving from the definition of out-of-school learning through a description of different applications in different out-of-school learning environments to examples of applied assessment/evaluation for out-of-school learning. Overall, the modules should combine theoretical information with examples of activities from all four countries (Disaster and Emergency Education Centre in Turkey, Museums and Workshops of Alchemy and Pharmacy in Czechia, Coffee Roastery in Slovakia, and Science Camps as a Holiday Experience in Germany).

**Key words:** Out-of-school Learning; Project DOSLECTEP; Science Teacher Education

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