

Conference program:

Wednesday, June 17, 2026	12:00 – 14:00	Registration
	14:00 – 14:30	Opening Ceremony
		Chairman: doc. RNDr. Bohuslav Drahoš, Ph.D.
	14:30 – 15:30	Dr. hab. Pawel Bernard, prof. Reform of Polish Chemistry Core Curriculum: Fundamentals, Goals, Solutions, and Obstacles <i>Department of Chemical Education, Faculty of Chemistry, Jagiellonian University in Kraków</i>
	15:30 – 15:50	Mgr. Dominika Koperová, PhD. Zelená chemie a udržitelnost ve výuce chemie pohledem budoucích učitelů chemie (Green chemistry and sustainability in chemistry education from the perspective of future chemistry teachers) <i>Department of Chemistry and Chemistry Education, Faculty of Education, Charles University</i>
	15:50 – 16:10	PhDr. Karel Vojříř, Ph.D. Biology Education Students' Perceptions of the Gradual Development of Competencies During Teaching Practice <i>Department of Biology and Environmental Studies, Faculty of Education, Charles University</i>
	16:10 – 16:40	Coffee break
		Chairman: prof. PhDr. Martin Bílek, Ph.D.
	16:40 – 17:00	dr Bożena Karawajczyk, prof. UG Requirements for teachers and the competencies of students training to become chemistry teachers <i>Division of Didactics and Popular Science, Faculty of Chemistry, University of Gdansk</i>
	17:00– 17:20	RNDr. Kateřina Trčková, Ph.D. Development of Professional Vision in Pre-Service Chemistry Teachers through Reflection on Teaching Situations and Video Analysis <i>Department of Chemistry, Faculty of Science, University of Ostrava</i>
	17:20 – 17:40	RNDr. Petra Letošníková, PhD. Developing the Digital Competence of Pre-service Chemistry Teachers Through E-Twinning Projects <i>Department of Chemistry Didactics, Faculty of Science, Pavol Jozef Šafárik University in Košice</i>
	17:40 – 19:00	Visit to the Faculty of Science Visit to the Fort Science
	19:00 – 22:00	Welcome drink

Thursday, June 18, 2026	8:30 – 9:00	Registration and technical arrangement
		Chairman: doc. RNDr. Bohuslav Drahoš, Ph.D.
	9:00– 10:00	doc. PhDr. Martin Rusek, Ph.D., Mgr. Tadeáš Matěcha From Autoclave to Oven: Mapping Introductory Laboratory Courses in Czech Chemistry Teacher Education <i>Department of Chemistry and Chemistry Education, Faculty of Education, Charles University</i>
	10:00 – 10:20	doc. RNDr. Milada Teplá, Ph.D. Generative AI in Chemistry Education: Design and Pilot Evaluation of Specialized Learning Activities <i>Department of Chemistry Education, Faculty of Science, Charles University</i>
	10:20 – 10:40	Mgr. Kristýna Havelková Chemistry Calculations and Mathematical Skills at ISCED 2 Level <i>Department of Chemistry Education, Faculty of Science, Charles University</i>
	10:40 – 11:10	Coffee break
		Chairman: Mgr. Katarína Szarka, PhD.
	11:10 – 11:30	prof. RNDr. Svatava Janoušková, Ph.D. Curriculum for Integrated Science Education at the Lower Secondary Level – Results of a Delphi Study <i>Department of Chemistry Education, Faculty of Science, Charles University</i>
	10:30 – 11:50	doc. Mgr. Hana Cídllová, Dr. History of Chemistry and Basic Concepts of the Microworld in Lower Secondary School Chemistry Textbooks <i>Department of Physics, Chemistry and Vocational Education, Faculty of Education, Masaryk University</i>
	11:50 – 12:10	Mgr. Lucie Hamerská (presented by doc. PhDr. Martin Rusek, Ph.D.) From Answer to Understanding: Exploring Correctness, Explanation, and Certainty in Chemical Representation Tasks <i>Department of Chemistry and Chemistry Education, Faculty of Education, Charles University</i>
	12:30 – 14:00	Lunch
		Chairman: RNDr. Ivana Sotáková, PhD.
	14:00 – 14:20	doc. RNDr. Petr Šmejkal, Ph.D. The Limitations of Informal Chemistry Education as a Barrier to Student Motivation in Studying Chemistry <i>Department of Chemistry Education, Faculty of Science, Charles University</i>
	14:20 – 14:40	Mgr. Marcela Feltlová Teaching Chemistry and Natural Sciences in Home Education: The Educators' Perspective <i>Department of Chemistry Education, Faculty of Science, Charles University</i>
14:40 – 15:00	Bc. David Prokop Dyslexia, Chemistry and Mathematics <i>Department of Physics, Chemistry and Vocational Education, Faculty of Education, Masaryk University</i>	
15:00 – 15:20	Mgr. Kamila Petrželová, Ph.D., RNDr. Slavomíra Šterbinská, Ph.D. Give Them a Chance: Chemistry for Pupils of Special Primary Schools <i>Department of Inorganic Chemistry, Faculty of Science, Palacký University Olomouc</i>	
15:30 – 17:30	Poster section and coffee break	

17:30 – 19:30	City tour
19:30 - 00:00	Social Dinner

Friday, June 19, 2026	8:30 – 9:00	Registration and technical arrangement
		Chairman: Mgr. Jana Prášilová, Ph.D.
	9:00– 10:00	Mgr. Lukáš Rokos, Ph.D. Transforming Teacher Education for the 21st Century: A Five-Year Professional Programme and Its Comprehensive Evaluation <i>Department of Biology, Faculty of Education, University of South Bohemia in České Budějovice</i>
	10:00– 10:20	PhDr. Filip Hašpl Internal Specifics of Scientific Observation in Biology Education <i>Department of Biology and Environmental Studies, Faculty of Education, Charles University</i>
	10:20– 10:40	Dr. Mária Babinčáková Emulsions Through Students' Eyes: Evaluation of Inquiry-Based Laboratory Activity for K8-K12 Students <i>Department of Chemical Education, Faculty of Chemistry, Jagiellonian University in Kraków</i>
	10:40 – 11:10	Coffee break
		Chairman: doc. RNDr. Petr Šmejkal, Ph.D.
	11:10 – 11:30	Mgr. Tadeáš Matěcha What Happens in the Laboratory Beyond Knowledge? Conative and Affective Learning Experiences in Prague and Davis <i>Department of Chemistry and Chemistry Education, Faculty of Education, Charles University</i>
	11:30 – 11:50	RNDr. Lenka Pavlasová, Ph.D. The Ability of Pre-service Biology Teachers to Evaluate the Solution of Inquiry-based Tasks <i>Department of biology and environmental studies, Faculty of education, Charles University</i>
	11:50 – 12:10	Mgr. Tereza Tesárková (presented by doc. PhDr. Martin Rusek, Ph.D.) Jak studenti pozorují a interpretují chemické demonstrace: Porovnání videodemonstrací a demonstrací prováděných v realitě (How Students Observe and Interpret Chemistry Demonstrations: A Comparison of Video Demonstrations with Real Demonstrations) <i>Department of Chemistry and Chemistry Education, Faculty of Education, Charles University</i>
	12:10 – 12:30	Closing Ceremony
	12:30 – 13:30	Coffee break

Thematic Sections:
Plenary Lecture
Preparation of Future Teachers and Competences Development
Curriculum, Innovation, and Digital Technologies
Inclusion, Special Needs, and Alternative Forms of Education
Teaching Methods, Research, and Laboratory Activities

Poster section (Thursday, June 18, 15:30-17:30):

(only the presenting author is listed)

01. Mgr. Ing. Václav Bazgier, Ph.D.

Pokusnice: Making Chemistry Experiments Safe, Simple, and Accessible

Department of Physical Chemistry, Faculty of Science, Palacký University Olomouc

02. prof. PhDr. Martin Bílek, Ph.D.

STEM through the Lens of Current Curriculum Reforms and Teacher Education

Department of Chemistry and Chemistry Education, Faculty of Education, Charles University

03. Ing. Hana Doušová, Ph.D.

Modern Chemistry Teaching through Experimental Activities

Demonstration Laboratory, Faculty of Chemical Technology, University of Pardubice

04. RNDr. Zoltán Fehér, PhD.

Current State and Development Perspectives in Pre-service Teacher Education

Department of Mathematics, Faculty of Economics and Informatics, J. Selye University

05. doc. PaedDr. RNDr. Zuzana Haláková, PhD.

Interdisciplinary Science Education in the Context of Curriculum Reform: A Comparison of International Approaches and the Implementation of Pedagogical Innovations

Department of Didactics in Science, Psychology and Pedagogy, Faculty of Natural Sciences, Comenius University

06. Ing. Jan Hrdlička, Ph.D.

Mineral water in chemistry education

Department of Chemistry, Faculty of Education, University of West Bohemia in Pilsen

07. PhDr. Anastázie Janoudová

Cognitive difficulty of tasks using text work in biology teaching: a view into teaching practice

Department of Biology and Environmental Studies, Faculty of Education, Charles University

08. Mgr. Ladislav Jaruska, PhD.

Analysis of Student Self-Assessment in Teacher Education Programs in Relation to Their Digital Competencies

Department of Primary and Pre-School Education, Faculty of Education, J. Selye University

09. Dr. habil. PaedDr. György Juhász, PhD.

Utilization of Modelling and Visualization Strategies in Secondary School Chemistry Education

Department of Chemistry, Faculty of Education, J. Selye University

10. Mgr. Radana Koudelíková

Observed Performance vs. Perceived Preparedness: Are First-Year Chemistry Students Ready for University Laboratories?

Department of Inorganic Chemistry, Faculty of Science, Palacký University Olomouc

11. Mgr. Radana Koudelíková, Mgr. Pavel Svozil

Stepping into the Story: Using First-person Videos and Authentic Narratives to Enhance Educational Escape Rooms

Department of Inorganic Chemistry, Faculty of Science, Palacký University Olomouc

12. Bc. Adam Kuchař

Knowledge, Attitudes and Experiences of Pupils and Students with Addictive Substances

Department of Chemistry, Faculty of Education, University of West Bohemia in Pilsen

13. PaedDr. Mária Orolínová, PhD.

From Play to Gamification in Chemistry Education: A Two-perspective Model and the Limits of Educational Escape Games

Department of Chemistry, Faculty of Education, Trnava university

14. Mgr. Patrik Pospíšil

The Evolution of the Czech Educational System: Historical Trajectories, Structural Inequalities, and the Post-2027 Reform Architecture

Faculty of Science, Palacký University Olomouc, Faculty of Science, Masaryk University, Brno

15. RNDr. Ivana Sotáková, PhD.

The Effectiveness of Integrating Digital Resources in Accordance with The Digcompedu Framework Into Pre-service Chemistry Teacher Education

Department of Chemistry Didactics, Faculty of Science, Pavol Jozef Šafárik University in Košice

16. Mgr. Katarína Szarka, PhD.

Visualizing the Nanoworld in Education

Department of Chemistry, Faculty of Education, J. Selye University

17. Mgr. Patrícia Szegedyová

When “Natural” Means “Safe”: Exploring Students’ Recognition of Argumentative Fallacies Related to Herbal Drugs and Medicines

Department of Didactics in Science, Psychology and Pedagogy, Faculty of Natural Sciences, Comenius University

18. Mgr. Veronika Švandová, Ph.D.

Artificial Intelligence and Student Science Teachers at Masaryk University

Department of Chemistry Education, Faculty of Science, Masaryk University

19. Bc. Daniel Vondryška

Historie a současnost experimentů s ozonem na KCH ZČU v Plzni

Department of Chemistry, Faculty of Education, University of West Bohemia in Pilsen

20. Mgr. Karolína Willimetz

Educational Materials Through the Eyes of Eyetracking

Department of Chemistry Education, Faculty of Science, Charles University