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## Chemical Society Annual Report to the EuCheMS Division of Chemical Education for 2021-2022<sup>1</sup>

### 1. Abstract

The Group for Chemical Education carried out several activities intending to promote the chemistry's teaching and learning. participated in preparation of *Chemistry Olympiad* in the Slovak Republic – creation of tasks for all categories as well as organization of National Round of Chemistry Olympiad and preparation of the Slovak team for international CHO. University teachers from three Slovak universities each year take part in the *Summer school of chemistry* for the best participants in the B and C categories of Chemistry Olympiad. All the rounds of 58<sup>th</sup> Chemistry Olympiad in Slovakia were successfully realised.

Experts in science education (chemistry as well) work on reconstruction of science curricula for primary school.

### 2. National educational policy

National Institute for Education (NIE) focuses on preparation, development and implementation of the national curriculum and provides guidelines for school policy and practice of schools and school facilities. In cooperation with NIE we:

- propose curricular and didactic concepts of transformation and global school reform (pre-primary, primary, lower and upper secondary education). Piloting schools will implement the new curriculum in school year 2023/24,
- monitor and analyse current trends in science education in SK,
- research and monitor in the field of chemistry and science education,

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<sup>1</sup>June 2021- May 2022, all levels of chemistry education: primary, secondary schools, universities, LLL, general and vocational education.

- provide in-service trainings for teachers,
- edit and publish teaching and other methodological material.

### 3. Events in chemical education

*73<sup>st</sup> Congress of Czech and Slovak Chemical Societies*, organized by the Slovak Chemical Society, took place from the 6<sup>th</sup> to 10<sup>th</sup> September 2021 in the High Tatras (Slovak republic). *Chemical Education and History Section* involved several oral presentations and posters.

17<sup>th</sup> International seminar for PhD students of chemistry didactics and related doctoral study programs for Czech, Slovak and Polish PhD students took place in November 2021 at the Faculty of natural Science (University of Matej Bell in Banská Bystrica, Slovakia). Presentations of PhD. students' research projects were evaluated by a committee of their supervisors.

Series of international conferences on research in didactics of science subjects (especially chemistry) *DidSci+* continued with the conference organized by Masaryk University in Brno, Czech republic.

### 4. Activities of the National Chemical Society

The main activity of the Group of Chemical Education represents Chemistry Olympiad in the Slovak Republic – creation of all tasks in all six categories, as well as organization of the National Round of Chemistry Olympiad, and preparation of Slovak team for IChO. All the rounds of 58<sup>th</sup> Chemistry Olympiad in Slovakia were successfully realised.

University teachers from several Slovak universities each year take part in the *Summer school of chemistry* for the best participants in the B and C categories of Chemistry Olympiad. In July 2021, 44<sup>nd</sup> *Summer school of chemistry* took place at The Faculty of Chemical and Food Technology in Bratislava ([https://www.fchpt.stuba.sk/sk/diani-na-fchpt/aktuality/letna-skola-chemikov-2021-1.html?page\\_id=4536](https://www.fchpt.stuba.sk/sk/diani-na-fchpt/aktuality/letna-skola-chemikov-2021-1.html?page_id=4536)).

We also cooperate with the *Association of Chemistry Teachers* ([www.zuch.sk](http://www.zuch.sk)) that represents Slovak chemistry teachers at primary and secondary schools.

Special Group of Chemical Education of the Slovak Chemical Society closely cooperates with the Division of Chemical Education of the Czech Chemical Society, especially in organization of international scientific conferences devoted to the theory and practise of chemical education.

There were many activities also organised in cooperation with the National Chemical Society during the *Wek of Science* in November 2021 (<https://tyzdenvedy.sk/>).

### 5. Publications

Slovak Commission for Chemistry Olympiad maintains the webpage of *International Information Centre of the International Chemistry Olympiad* at [www.icho.sk](http://www.icho.sk). There you can find also the tasks of almost all IChOs.

Tasks of Chemistry Olympiad (in Slovak) are available at <https://www.iuventa.sk/sk/Olympiady/Olympiady-a-sutaze/CHO.alej> and recently (together with information on history of ChO in Slovakia and Summer Schools of Chemistry) also at <https://chemickaolympiada.sk/>

On-line journal for schools *Biology – Ecology – Chemistry* is available (in Slovak with English abstracts) at <http://bech.truni.sk> (published by the Department of Chemistry, Faculty of Education, Trnava University).

Slovak Chemical Society webpage address is [www.schems.sk](http://www.schems.sk). There you can find *ChemZi*, the journal of SChS.

#### **6. Liaison with the chemical industry**

Cooperation with Volkswagen (<https://www.nadacia-volkswagen.sk/podporujeme/ine-oblasti-podpory/>)

#### **7. International and European initiatives**

IT Academy (<https://itakademia.sk/>)

#### **8. Other events and activities**

#### **9. Name of delegate and deputy**

Assoc. prof. Katarína Kotuláková, PhD.

#### **10. Contact details of delegates.**

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