

Methodology of Science Education thematic mission of the AE Budapest Knowledge Hub

1. There is a need to develop and promote **new methodologies in science education** to help the transfer of scientific knowledge in all stages of education from primary schools to university science curricula.
2. Realization of the **new challenges of distance learning**.
3. More **social and gender equality** in access to science education and STEM careers.

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Every cloud has a silver lining -- experiences and prospects of online STEM education in the light of the pandemic (March, 2021, Zoom)

Main issues related to lockdown

- How the pandemic changed public education and the day-to-day running of research.
- Distance learning necessitated the introduction of new methods and tools.
- Besides the negative effects, the coronavirus pandemic has also highlighted that there are ways in which education can be made more effective.

Speakers

- ❖ **Zsolt Lavicza** (Linz School of Education, Linz, AU) *Utilising technologies to nurture creativities in STEAM education*
- ❖ **Iulia Savos** (CEU Babylab, Budapest, Hungary) *Possibilities and Limitations of Online Infant Studies*
- ❖ **Dénes Szűcs** (University of Cambridge, UK) *Math anxiety*

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Recent questions of learning and teaching STEM

- a workshop in **Hungarian**
- **on October 21, 2021**
- organized jointly with the **Presidential Committee of Public Education** of the Hungarian Academy of Sciences
- the focus here was put on **recent questions, perspectives of learning and teaching STEM with a great emphasis on physics and chemistry**
- the talks of the speakers were followed by a **fruitful discussion forum** that was moderated by Professor Benő Csapó.

- ❖ **Benő Csapó** (University of Szeged) Diagnostic testing in SciEd
- ❖ **Erzsébet Korom** (University of Szeged) *Learning science in primary school*
- ❖ **Mária B. Németh** (University of Szeged) *Motivation issues in science learning*
- ❖ **Luca Szalay** (Eötvös Loránd University, Budapest) *Inquiry-based chemistry learning*
- ❖ **Zoltán Tóth** (University of Debrecen) *Critical points in the development of science concepts*



Fact finding and contact seeking

- Information hub regarding new developments in STEM education.
- A short **email survey in order to find possible connections**. After receiving the responses, we organized this data into a table.
- Connect the international researchers with those Hungarian researchers who have the same or similar field of research or scientific interest.

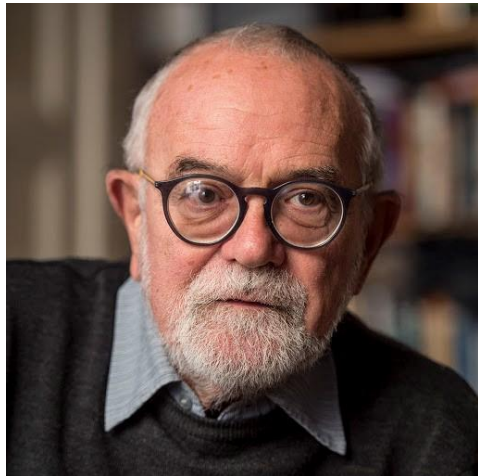


Objectives

- **to serve as the basis for the development of the activities of the AE Hub** under this thematic mission, which in turn offers the possibility to widen the scope of the programme by incorporating the latest advances in education methodology on a European level
- **to organize programs together.** In such a way we could **connect** even more **researchers**. We think that it would be important for the Hub offices to work together so that the exchange of information and the networking could take place.



Contact



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Hope to improve STEM education all over Europe

We especially seek interest from other AE Hubs.

THANK YOU FOR YOUR ATTENTION

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