



Contribution ID: 113

Type: **Workshop**

## Thinking-Back-and-Forth in Practical Work

*Tuesday 27 August 2024 11:30 (1h 30m)*

During practical work students are typically more concerned with hands-on aspects, than with underlying minds-on aspects. Hence, it is hard to reach any minds-on learning goals, leading to relatively ineffective lesson time. In this workshop the framework of Thinking-Back-and-Forth (TBF) between hands-on and minds-on is presented and it is used to analyse existing practical work about possibilities to connect hands-on to minds-on. The framework has been developed to enable teachers to critically reflect on and improve their current practice regarding practical work in small, tangible steps. It has proven to be a valuable addition to pre- and in-service teacher education.

### How would you like to present your contribution?

Live in Kraków (time slot to be allotted based on the programme)

### Target education level

General

### Category

Formal Education

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**Session Classification:** Workshop

**Track Classification:** Physics Teacher Education and Professional Learning