



GIREP-EPEC conference 2023  
Physics learning promoting culture  
and addressing societal issues

Contribution ID: 19

Type: **Oral presentation**

## EXAMINING PRE-SERVICE PRIMARY TEACHERS' PEDAGOGICAL CONTENT KNOWLEDGE FOR TEACHING SCIENCE THROUGH VIDEO ANALYSIS

*Tuesday 4 July 2023 11:00 (20 minutes)*

Effective and high-quality science teaching involves complex practices that depend on teachers' professional knowledge. Researchers have investigated the nature of pedagogical content knowledge (PCK) predominantly in the in-service secondary school teachers' context. This research project aims to investigate the PCK construct through video analysis focusing on pre-service primary teachers and examining one of the PCK components: teachers' knowledge of students' understanding. Fifty-nine participants, attending a degree programme in Primary Education, attempted two video-based tasks and their responses were analysed qualitatively. This study points out the need for primary teachers to extend learning opportunities to notice students' scientific thinking.

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

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

### Target education level (primary)

Pre-service teacher education

### Target education level (secondary, optional)

Primary school education

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**Session Classification:** Hybrid session - early