



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

Contribution ID: 95

Type: **Poster**

## **Periodic Motion in a little different way or supporting teachers' experimental activities using non-traditional digital technologies.**

*Wednesday, July 5, 2023 4:00 PM (20 minutes)*

The paper aims to show one of the possibilities of how simple devices based on microcontrollers and inexpensive electronic components can be used in the framework of pupils' exploration of the thematic unit of Periodic Motion. The experimental set-up designed at the authors' workplace has a modular design and contains a digital oscilloscope supplemented with suitable sensors. An optional component is the Arduino microcontroller used for direct digital sound synthesis and a function signal generator XR2206. The kit will be used at the authors' workplace in the framework of further education of teachers in the implementation of inquiry-based experiments.

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

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

### **Target education level (primary)**

Upper-secondary education

### **Target education level (secondary, optional)**

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**Session Classification:** Poster session 1