



**GIREP-EPEC**  
**3-7 July 2023**  
Košice, Slovakia

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

Contribution ID: 55

Type: **Oral presentation**

## **Electromagnetism in high school: Classroom experimentation with Arduino**

*Tuesday 4 July 2023 16:20 (20 minutes)*

We offer a workshop for high school physics teachers to share good practices of using Arduino for teaching electromagnetism. Arduino-based classroom experimentation gives the opportunity to students to work in groups and conduct experiments with the application of modern devices. It involves students completely in the work processes and in their own learning processes, and develops those skills and competences that are essential for a successful member of the society. The method and the project-based lesson plan we will share with colleagues encourage students to participate actively in classes and acquire practical knowledge by observing, measuring and analysing different phenomena.

### **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:** Lab work and experiments

**Track Classification:** Lab work and experiments in physics education