



GIREP-EPEC
3–7 July 2023
Košice, Slovakia

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

Contribution ID: 53

Type: **Oral presentation**

Short videos for elaborative encoding of physics principles before lectures with Peer Instruction

Tuesday 4 July 2023 11:40 (20 minutes)

Peer Instruction is an effective lecturing method in physics but introduces a high demand on student preparedness. Some of the existing methods of increasing student preparedness have problems concerning learning effectiveness, student usage, and alignment with knowledge needs. We made introductory videos to address these problems and used a survey and interviews to investigate its success. The findings indicate that the videos were helpful in increasing student learning during Peer Instruction and that students gradually became aware of this. This type of introductory video may elevate the struggling students especially, leveling the playing field during peer discussions.

How would you like to present your contribution?

Hybrid from my own country (early in the conference day, best for Asia, Australia ...)

Target education level (primary)

University education

Target education level (secondary, optional)

Author: GJERDE, Vegard (University of Bergen)

Presenter: GJERDE, Vegard (University of Bergen)

Session Classification: Hybrid session - early

Track Classification: Innovative strategies and pathways to improve physics education at university