



GIREP-EPEC

Transforming physics learning via Research & Practice
LEIDEN, 2025

Contribution ID: 14

Type: **Workshop**

Building a timer: Modeling Instruction in the Netherlands - INSTR

Tuesday 1 July 2025 15:30 (1h 30m)

Modeling Instruction is a guided inquiry-based learning approach that fosters student engagement and deep understanding of physics through collaborative model development and deployment. This workshop narrates the experiences gained with this method in Dutch classrooms, which sparked enthusiasm among teachers and students alike. Attendees will engage in a hands-on activity encompassing both phases of Modeling Instruction: developing a model for spring mechanics and deploying it to construct a timer. Participants will experience the method's collaborative dynamics, and gain insight into its potential to inspire both teachers and students.

Education level

Age 15-18 (Secondary education)

Physics topic

Other

Research focus

Active learning

Research method

Practitioner's Inquiry / Action Research (Qualitative research)

Organizing preference criteria

Education level

Author: BAARS-DE BOER, Cathy

Presenter: BAARS-DE BOER, Cathy

Session Classification: Workshops

Track Classification: Instructional strategies & Curricula (INSTR)