



GIREP-EPEC

Transforming physics learning via Research & Practice
LEIDEN, 2025

Contribution ID: 139

Type: **Workshop**

Scaffolding Dialogues in Upper-Secondary School Physics Classrooms –Using Reasoning Schemes as Co-construction Tools - INSTR

Monday 30 June 2025 13:30 (1h 30m)

It is important to make dialogues productive during lessons but is a difficult skill. Tools that support explication of thinking can support the explication of thinking and are called co-construction tools. During this workshop, participants will firstly experience how such a reasoning scheme works from a student perspective. Participants will then analyse the strengths and weaknesses of two reasoning schemes and synthesise a new reasoning scheme. This workshop focuses on teachers and scholars who are studying dialogues in secondary-school lessons of physics.

Education level

Age 15-18 (Secondary education)

Physics topic

Thermodynamics and Energy

Research focus

Other

Research method

Other

Organizing preference criteria

Education level

Authors: DIEPENBROEK, Patrick; DE PUTTER, Lesley; HENDRICKX, Marloes (Eindhoven School of Education); VAN DER VEEN, Jan (Eindhoven School of Education); VAN JOOLINGEN, Wouter (Freudenthal Institute)

Presenter: DIEPENBROEK, Patrick

Session Classification: Workshops

Track Classification: Instructional strategies & Curricula (INSTR)