



GIREP-EPEC

Transforming physics learning via Research & Practice
LEIDEN, 2025

Contribution ID: 177

Type: **Oral presentation**

ESG Junior Program: Knowledge, Skills, and Purpose

Wednesday 2 July 2025 09:00 (20 minutes)

Results of international assessments (PISA, TALIS) revealed below-average performance in scientific literacy, problem-solving and critical thinking of Croatian students and teachers. That highlights the need for improvement. To address this, we undertook an innovative project, integrating ESG principles to contextualize formal knowledge in real-world settings –ESG Junior Program. The program utilizes physics, as a fundamental science, to address real-world challenges. Connecting schools with local communities, students research local issues and develop solutions, gaining practical skills for future labour market participation. Project is implemented in six pilot schools in Croatia. At the conference, we will present developed scenarios and applied methodology.

Education level

Outreach, Informal & Non-formal learning of physics

Physics topic

Interdisciplinary topics

Research focus

Innovative instructional strategies and pathways

Research method

Educational design research (Qualitative research)

Organizing preference criteria

Education level

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Session Classification: Parallel oral presentations

Track Classification: Interdisciplinary topics (INTER)