### **Session Program**

30 June 2025 to 4 July 2025



# GIREP-EPEC 2025 Conference, Leiden, The Netherlands

### Parallel oral presentations TEACH

Leiden University, Gorlaeus building Einsteinweg 55 2333 CC Leiden https://www.universiteitleiden.nl/en/locations/gorlaeus-building#tab-1

### Monday 30 June

13:30

# Parallel oral presentations TEACH: Parallel oral presentations 113

Session | Location: Gorlaeus building, BM1.33, Einsteinweg 55 2333 CC Leiden | Convener: Iain Moore

13:30-13:50 How do pre-service physics teachers envision physicists?

Speaker

Angelika Bernsteiner

13:50-14:10 Advanced physics courses for teachers - Physicists' perceptions

Speaker

Dr Dan Klein

#### 14:10-14:30

Supporting Teachers in Planning and Implementing Digital Data Acquisition in the **Physics Classroom** 

Speaker

Lea Runge

#### 14:30-14:50

The introduction of circuits in secondary science education: teachers' views on confidence and content

Speaker

Iain Moore

### **Tuesday 1 July**

09:00

# Parallel oral presentations TEACH: Parallel oral presentations 212

Session | Location: Gorlaeus building, BM1.33, Einsteinweg 55 2333 CC Leiden | Convener: Marian Kires

09:20-09:40 Artificial Intelligence in Pre-Service STEM Teacher Training

Speaker

Prof. Jozef Hanč

#### 09:40-10:00

Teacher students' expression of TPACK in GeoGebra-based lesson planning

Speaker

Lorena Solvang

#### 10:00-10:20

Flexible learning environment for the DigCompEdu competences development of **STEM teachers** 

Speaker

Marian Kires

10:30 15:30

Parallel oral presentations TEACH: Parallel oral presentations 221 **TEACH** 

Session | Location: Gorlaeus building, BM1.33, Einsteinweg 55 2333 CC Leiden | Convener: Stephen Gammell

#### 15:30-15:50

Diagnosis of Elementary Pre-service Teachers' Alternative Conceptions before and after Hands-on Laboratory about Electrostatic

Speaker

Abdeljalil Metioui

#### 15:50-16:10

**Exploring the Traits of Competent Physics Teachers: Insights from Secondary School Physics Teachers** 

Speaker

Deena Davis

#### 16:10-16:30

Examining Ethiopian Physics Teachers' Conceptual Understanding and **Pedagogical Content Knowledge in Mechanics** 

**Speaker** 

Dereje Aynekulu Dejene

#### 16:30-16:50

Influence of a professional learning programme in physics on teachers' beliefs and classroom practices

Speaker

Stephen Gammell

### Wednesday 2 July

09:00

# Parallel oral presentations TEACH: Parallel oral presentations 312 TEACH

Session | Location: Gorlaeus building, BM1.33, Einsteinweg 55 2333 CC Leiden | Convener: Estelle Tison

#### 09:00-09:20

Exploring the Photoelectric Effect and the Electromagnetic Spectrum through Art Analysis in Physics Education

#### Sneaker

Ms Brenda Ixcuiname Saavedra

#### 09:20-09:40

Effectiveness of Peer Mentoring for Helping College Physics Faculty Members Improve Their Teaching in Japan

#### Speaker

Sachiko Tosa

#### 09:40-10:00

Preschool teacher training in physics under the new Mexican school approach

#### Speaker

Dr Mario Humberto Ramírez Díaz

#### 10:00-10:20

The Meaning of Energy in Physics Teaching in France (grades 7 to 9): an Analysis of Official Documents.

#### Speaker

Estelle Tison

### **Thursday 3 July**

09:00

# Parallel oral presentations TEACH: Parallel oral presentations 411 TEACH

Session | Location: Gorlaeus building, BM1.33, Einsteinweg 55 2333 CC Leiden | Convener: Olga Gkioka

#### 09:00-09:20

**Developing Student Competences for Sustainable Development: Are Teachers Prepared** 

#### Speaker

Dr Dury Bayram

#### 09:20-09:40

E-R-R teaching framework implemented in future physics teacher education

#### Speaker

Tereza Hrouzková

#### 09:40-10:00

How do Different Games make a Difference? Pedagogical Considerations and Teachers' Perspectives when integrating Card Games into Physics Teaching

#### Speaker

Smadar Levy

#### 10:00-10:20

Pre-service physics teachers learn to write reports in the instructional physics labs

#### Speaker

Olga Gkioka

10:3015:30

# Parallel oral presentations TEACH: Parallel oral presentations 421 TEACH

Session | Location: Gorlaeus building, BM1.33, Einsteinweg 55 2333 CC Leiden | Convener: Dr Eilish McLoughlin

#### 15:30-15:50

Coherent Argumentation in Pre-Service Science Teachers' Computational Essays

#### Speaker

Peitsa Veteli

#### 15:50-16:10

Exploring Preservice Physics Teachers' Reasoning of Measurement Uncertainty

#### Speaker

Osman Aksit

#### 16:10-16:30 Empowering future physics teachers to cultivate critical thinking

#### Speaker

Dr Farahnaz Sadidi

#### 16:30-16:50 An examination of physics teachers' reflective practices

**Speaker**Dr Eilish McLoughlin

### Friday 4 July

13:00

# Parallel oral presentations TEACH: Parallel oral presentations 521 TEACH

Session | Location: Gorlaeus building, CM1.26, Einsteinweg 55 2333 CC Leiden | Convener: Valentina Bologna

#### 13:00-13:20

An Evaluation of Argumentation-Based Studies on Physics Subjects Using the Toulmin Model

#### Speaker

Ms Aysegul Tuysuz

#### 13:20-13:40

**Characterising Dialogues in Upper-Secondary School Physics Classrooms** 

#### Speaker

Patrick Diepenbroek

#### 13:40-14:00

Towards a theory of thinking and reasoning in physics education: the connection between dual processing theories and mental models

#### Speaker

David Sands

#### 14:00-14:20

Examining Thinking Order Levels in Non-Traditional vs. Standard Physics Problems Through Revised Bloom's Taxonomy

#### Speakers

Giovanna MODUGNO, Valentina BOLOGNA