



# GIREP-EPEC 2023 Conference, Košice, Slovakia

## Monday 3 July 2023

### Innovative strategies at University: 137,152,184,181 - Room 5 (13:40 - 15:30)

-Conveners: Chairman: Paul Logman

time	[id] title	presenter
13:40	[152] The relationship between degrees of freedom and the thermodynamic and Boltzmann entropies in complex thermal systems.	SANDS, David
14:00	[184] Using peer-reviewed papers to design new type problems	ŠARLAH, Andreja
14:20	[137] Enhancing University First-Year Physics Education: Implementation of Interactive-Engagement Methods for Deeper Conceptual Understanding	JESKOVA, Zuzana HANČ, Jozef BOROVSKÝ, Dominik
14:40	[181] Decision-making by students in lab courses: stimulating students' reasoning when choosing apparatus in experiments	Dr LOGMAN, Paul

### Innovative strategies at University: 043,097,132 - Room 5 (16:00 - 17:30)

-Conveners: Chairman: Gerald Feldman

time	[id] title	presenter
16:00	[97] Developing an analytical framework to characterize physics teachers' approaches to the pedagogy of derivations	Dr MASHOOD, KK
16:20	[43] Supporting collaborative conceptual change in Physics: analysing the voice, argumentation, and social interaction	Dr KÄHKÖNEN, Anna-Leena
16:40	[132] Students' experiences of applying vector quantities to rotational motion	FÄLDT, Åke

# Wednesday 5 July 2023

## Innovative strategies at University: 041,060,166,187 - Room 5 (13:40 - 15:10)

-Conveners: Chairman: Dagmara Sokolowska

time	[id] title	presenter
13:40	[187] Peer discussions with MCQs after immediate feedback	IRGENS, Børge
14:00	[60] Understanding two types of notations for radio wave propagation	RISSANEN, Antti
14:20	[41] Undergraduate Physics Laboratories for Remote Teaching and Learning	ANTIMIROVA, Tetyana
14:40	[166] Addressing the gap in Continuous Professional Development of Academic Teachers– a case study	SOKOŁOWSKA, Dagmara

# Thursday 6 July 2023

## Innovative strategies at University: 037,116,125 - Room 4 (13:40 - 15:20)

-Conveners: Chairman: Ian Bearden

time	[id] title	presenter
13:40	[125] Non-constant acceleration kinematics. University students' difficulties related to representation systems	ZUZA, Kristina
14:00	[116] Challenges in Designing Basic Physics Course for Undergraduate Biologists - investigating difficulties with learning physics	KACZMAREK, Mirela
14:20	[37] A multi-representational simulation to learn about vector fields	HAHN, Larissa