4th World Conference on Physics Education 2024, Kraków, Poland

Tuesday 27 August 2024

<u>Workshop: HYBRID W-PTE-2. Physics Teacher Education and Professional Learning</u> - Large Lecture Hall A (11:30 - 13:00)

-Conveners: Marilu Chiofalo	
time [id] title	presenter
11:30 [245] School-University Collaboration and Teachers' Professional Development	CHIOFALO, Marilu

Workshop: W-EPW-1. Experiments and Practical Work in Physics Education - Conference Room (11:30 - 13:00)

-Conveners: Mirela Kaczmarek

time [id] title	presenter
11:30 [299] Catch the Balance: DIY toys for inquiry physics	KACZMAREK, Mirela

<u>Workshop: W-MDR-1. Contemporary Physics, Modern Physics in Schools and Universities</u> - Exhibition Room B (11:30 - 13:00)

-Conveners: Joao Pereira

time	[id] title	presenter
	[108] Using MACROBITS to illustrate the logic of quantum cryptography protocols	PEREIRA, Joao

Workshop: W-MMP-1. Multimedia, AR, VR and AI in Physics Education - Exhibition Room A (11:30 - 13:00)

-Conveners: David Sokoloff

Conveners Wenter Span

time [id] title	presenter
11:30 [15] Engaging Students in Class and Virtually with Interactive Lecture Demonstrations (ILDs)	SOKOLOFF, David

Workshop: W-PTE-1. Physics Teacher Education and Professional Learning - Small Hall (11:30 - 13:00)

-Conveners, would spaan	
time [id] title	presenter
11:30 [113] Thinking-Back-and-Forth in Practical Work	SPAAN, Wouter

Wednesday 28 August 2024

Workshop: W-EPW-2. Experiments and Practical Work in Physics Education - Conference Room (11:30 - 13:00)

-Conveners: Michael Holik

time	[id] title	presenter
	[252] Pixel detector based particle camera as a motivation tool for practical physics education demonstrating properties of radiation and elementary particles in a comprehensible way	Dr HOLIK, Michael VÍCHA, Vladimír

Workshop: W-EPW-3. Experiments and Practical Work in Physics Education - Exhibition Room A (11:30 - 13:00)

-Conveners: Mojca Čepič		
time [id] title	presenter	
11:30 [159] Floating and Melting of Ice in Oil	ČEPIČ, Mojca	

Workshop: W-EPW-4. Experiments and Practical Work in Physics Education - Exhibition Room B (11:30 - 13:00)

time [id] title	presenter
11:30 [7] "Tuneable" levitating pencil	DVOŘÁK, Leoš

Workshop: W-PTE-3. Physics Teacher Education and Professional Learning - Small Hall (11:30 - 13:00)

-Conveners: Sebastian Schellhammer

time [id] title	presenter
11:30 [223] Shaping physics teacher education together: How to successfully connect didactics and scientific discipline?	Dr SCHELLHAMMER, Sebastian

Thursday 29 August 2024

<u>Workshop: W-EAD-1. Evaluation and Assessment of Student Learning and Development</u> - Medium Lecture Hall A (11:30 - 13:00)

-Conveners: Věra Koudelková

time [id] title	presenter
11:30 [214] Formative approach in physics education	KOUDELKOVÁ, Věra

Workshop: W-EPW-5. Experiments and Practical Work in Physics Education - Exhibition Room B (11:30 - 13:00)

-Conveners: Marian Kires

time	[id] title	presenter
11:30	[250] Exploring Thermoelectric Phenomena by the method of Blended Learning	KIRES, Marian JUHASOVA, Antonia

Workshop: W-EPW-6. Experiments and Practical Work in Physics Education - Large Lecture Hall B (11:30 - 13:00)

-Cor	veners: Snachar Boubili	
time	[id] title	presenter
11:30	[140] Methods for addressing strengths and weaknesses of the rubber sheet analogy	BOUBLIL, Shachar

Workshop: W-EPW-7. Experiments and Practical Work in Physics Education TEACHER CONTRIBUTION -

Conference Room (11:30 - 13:00)

.

01

0

D 119

-Conveners: Malgorzata Szymura

time [id] title		presenter
11:30 [327] Outer space in the ophenomena in physics less	elassroom – how to introduce astronomical soons?	SZYMURA, Malgorzata

Workshop: W-PSI-1. Physics for Environment and Social issues - Medium Lecture Hall B (11:30 - 13:00)

-Conveners: Thomas Schubatzky; Sarah Wildbichler

time [id] title	presenter
11:30 [28] "Tutorials in Climate Change": Teaching scientific concepts underlying climate change	WILDBICHLER, Sarah SCHUBATZKY, Thomas

Workshop: W-PTE-4. Physics Teacher Education and Professional Learning - Exhibition Room A (11:30 - 13:00)

-Conveners: Smadar Levy

time [id] title	presenter
11:30 [46] Physics Cards Games - What's New? From "Newton's Laws" to the challenges identified in a large-scale implementation	LEVY, Smadar

Workshop: W-EPW-8. Experiments and Practical Work in Physics Education - Exhibition Room A (15:30 - 17:00)

time [id] title	presenter
15:30 [32] Measuring time - from sundials to exploring the pendulum	DVOŘÁKOVÁ, Irena

<u>Workshop: W-EPW-9. Experiments and Practical Work in Physics Education TEACHER CONTRIBUTION</u> - Conference Room (15:30 - 17:00)

-Conveners: Dobromiła Szczepaniak

-Conveners: Irena Dvořáková

time [id] title	presenter
15:30 [300] The IYPT Ideas in Daily Teaching and Learning	SZCZEPANIAK, Dobromiła

Workshop: W-IBP-1. Identity and Belonging in Physics - Medium Lecture Hall A (15:30 - 17:00)

-Conveners: Michael Wittmann

time	[id] title	presenter
	[175] Using the EP3 Guide to Address Concerns with Low Enrolments in Physics Departments	WITTMANN, Michael

Workshop: W-MDR-2. Contemporary Physics, Modern Physics in Schools and Universities - Large Lecture Hall B (15:30

- 17:00)

-Conveners: Maria Bondani

time [id] title	presenter
15:30 [174] QTris: a new game for teaching quantum physics	BONDANI, Maria

Workshop: W-MMP-2. Multimedia, AR, VR and AI in Physics Education - Exhibition Room B (15:30 - 17:00)

-Conveners: Paul Alstein	
time [id] title	presenter
15:30 [101] Hands-on with Relativity Lab: a simulativity in secondary education	lation environment for special ALSTEIN, Paul

<u>Workshop: W-PTE-1. HYBRID Physics Teacher Education and Professional Learning</u> - Large Lecture Hall A (15:30 - 17:00)

-Conveners: Lorenzo Santi	
time [id] title	presenter
15:30 [221] Innovation in Teaching/learning physics in Master IDIFO	SANTI, Lorenzo

Workshop: W-TLP-1. Teaching and Learning Physics Concepts - Seminar Room (15:30 - 17:00)

-Conveners: Katarína Kozelková; Zuzana Jeskova

time [id] title	presenter
15:30 [165] Empowering learning through dynamic modelling activities to enhance physics education	KOZELKOVÁ, Katarína JESKOVA, Zuzana

Friday 30 August 2024

Workshop: W-CPE-1. Competence-based physics education - Conference Room (09:30 - 11:00)

-Conveners: Gerald Feldman; Guillaume Schiltz

time [id] title	presenter
09:30 [77] Creating a Student-Centered Collaborative Learning Environment in a University Physics Classroom	FELDMAN, Gerald SCHILTZ, Guillaume

Workshop: W-EPW-10. Experiments and Practical Work in Physics Education - Seminar Room (09:30 - 11:00)

-Conveners: Dagmara Sokołowska

time [id] title	presenter
09:30 [289] Indians, bells and whistling bottles - an inquiry-based learning unit for enhancing students' motivation, creativity and empirical skills	SOKOŁOWSKA, Dagmara

Workshop: W-PTE-5. Physics Teacher Education and Professional Learning - Small Hall (09:30 - 11:00)

-Conveners: Joan BORG MARKS

time [id] title	presenter
09:30 [199] An overview of the outcomes of the GIREP Malta Webinars 2020 and 2021	BORG MARKS, Joan