

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

Wednesday, 28 August 2024

Poster session: Target: Early Science/Primary & Secondary Level (11:30 - 13:00)

time	[id] title	presenter
11:30	[291] The laws of physics taught through their application - not as difficult as they seem.	KOŚCIELNY, Hanna
11:30	[34] Factors of quality of physics demonstrations	NIKITIN, Alexandr
11:30	[137] Diving into Quantum Physics: Challenging the Constraints of Knowledge Transfer Through Engaging School Lab Units	SCHLEICHER, Manuel
11:30	[107] CREDO-edu programme for schools – our way to introduce kids to modern physics and engage in scientific research.	DERESZ, Melania
11:30	[197] Introduction of the multipurpose instrument Meter ZD1301A	BORDAS, Arpad
11:40	[48] High School Teachers' Perspectives on Teaching Quantum Physics – Questionnaire Design	LEGERSKÁ, Jana
11:40	[293] Field game about Mad Scientist - learning physics through fun.	GUŚTAK, Karolina
11:40	[202] Weekend Lab Challenges bring physics learning from the laboratory into everyday life	OGAWA, Shinjiro
11:40	[142] Surveying teachers' readiness to incorporate digital technologies in inquiry-based laboratories: the development of a tool and initial findings	CARLI, Marta
11:50	[152] CLImate change teachers' acaDEMY (CLIMADEMY)	BITSAKI, Chara
11:50	[294] Novel technologies as facilitators of learning process - inspirational examples from Aviation Education Center Krakow Airport	DZIOB, Daniel
11:50	[234] Developing Pupil's Ideas related to the Concept of Force in the 1st Year of Gymnasium	NOVOTNÁ, Silvia
11:50	[241] Bridging the Gaps: How physics teachers in Slovakia utilize non-formal resources for astronomy education	KOZÁNEK KISS, Tünde
11:50	[75] CERN Science Gateway – New Education Labs	WOITHE, Julia
12:00	[246] Teacher professional development on properties of matter in primary education	
12:00	[163] Probing students' estimates of astronomical sizes and distances	KEPPENS, Willem
12:00	[79] The effect of teaching Physics using the Flipped Classroom model on students' domains included in the Integrated Taxonomy	SIPKA, Gergő
12:00	[295] Construction of flying machines as introduction to basic physics for young students	TROJANOWSKA, Monika
12:10	[296] Developing new habits for Physics teachers through Creative Ateliers	
12:10	[166] Physical pendulum experiment and HTML5 simulation	BORDAS, Arpad
12:10	[254] Results of an Active methodology proposal for learning Physics: Experimental stations in the classroom for the investigative learning of Sound concepts in the 8th grade	ESPERANÇA, Telma

12:10	[86] Development of a Multiple Choice-test on Newtonian Mechanics for the lower secondary level	LINDMAIER, Kerstin
12:20	[313] Transformative Interactive Experience at Specola Margherita Hack for Enhanced Public Engagement in Astronomy	CITOSI, Marco
12:20	[272] A Computational Modelling in Secondary Physics Teaching as an Example of the Implementation of the Concept of STEM Education	KOC, Oktawia
12:20	[184] Investigating the Nature of Science with Zeno's paradox	ONORATO, Pasquale
12:20	[92] Development of a teaching concept on the subject of "sound propagation" based on a transmitter-receiver-model	LEHR, Tanja
12:30	[36] Using Mobile Apps for Physics Teaching and Learning	Mrs MGELADZE, Ana
12:30	[97] Translating a Concept Inventory into English – The Case of the CCCI-442	HAAGEN-SCHÜTZENHÖFER, Claudia
12:30	[189] Early findings on how upper-secondary students use chatbots in learning science	SNĚTINOVÁ, Marie
12:30	[273] A simplified approach with FFT and smartphone in high school physics	TUFINO, Eugenio
12:40	[111] COOL IT: A Digital Game on the Greenhouse Effect for Physics Education	Dr GRAZ, Ingrid
12:40	[276] Enhancing Secondary School Physics Teachers' Understanding of Quantum Concepts and Pedagogical Strategies Through Professional Learning Networks	STADERMANN, Kirsten
12:40	[191] Instructing high school students in a teaching-learning sequence on the physical basis of the greenhouse effect: preliminary results	TOFFALETTI, Stefano
12:40	[187] Lab2Go: a project for fostering interest in laboratory in different contexts	MONTALBANO, Vera
12:50	[208] Active In-Service Training on Transversal Skills: Two Pilot Cases in STEM Disciplinary Teaching	MONTALBANO, Vera
12:50	[282] Qualitative analysis of high school and university textbooks on thermodynamics and statistical physics	BLOVSKÝ, Tomáš
12:50	[192] Integrating sustainability into secondary school teacher training: a multidisciplinary approach to promote active learning and behavioural engagement	FIORELLO, Camilla
12:50	[284] Results of a Galilean Physics-of-motion Teaching Case Study	CIOCI, Vincenzo
12:50	[124] Support models for simulation-based inquiry learning of the photoelectric effect	BAARS, Cathy

Thursday, 29 August 2024

Poster session: Target: University & General (11:30 - 13:00)

time	[id] title	presenter
11:30	[138] Connecting with quantum: Examining the educational value of the Bohr atomic model using embodied cognition and variation theory	KILDE LÖFGREN, Sebastian
11:30	[25] Comparing Alternative and Traditional Certification Pathways for Physics Teachers: What Sets Them Apart?	Mr LÄSSER, Armin
11:30	[292] DIY Wind tunnel. From Simple Tools to Inspirative Physics Education.	MATLINGIEWICZ, Szymon
11:40	[157] Development of an Integrated STEM Teacher Identity for Climate Education: The STEM-id project	MICHAILIDI, Emily
11:40	[31] "Shining lighthouse in the sea of calculus, geometry, and theoretical mechanics": The seminar introducing pre-service teachers to their future profession	DVOŘÁKOVÁ, Irena
11:40	[301] Development of critical thinking in physics education	HROUZKOVÁ, Tereza
11:50	[160] Light intensity does not always decay with the inverse of the square of the distance: an open-inquiry laboratory	MARTI, Arturo STARI, Cecilia
11:50	[70] Survey on physics knowledge to evaluate the effects of gender gap on orientation towards STEM courses	TERUZZI, Paolo
11:50	[302] Level of scientific reasoning of university students and grammar school pupils	SMRCKA, David
12:00	[311] Categorisation of interdisciplinary problems in Physics and Science	LENA, Rosaria
12:00	[171] Identifying Precursors of University Drop-Out in Physics and STEM Undergraduate Courses	Prof. TESTA, Italo
12:00	[83] The challenges of teaching medical radiation technology without a high school physics background in Australian universities	DEB, Pradip
12:10	[84] Critical thinking in quantum physics learning: Development of a domain specific model	Dr SADIDI, Farahnaz
12:10	[193] Continuous transition from Fraunhofer and Fresnel diffraction regimes with a triangular slit	SALMOIRAGHI, Alessandro
12:10	[312] Basic Physics Laboratory - a space where undergraduate students develop hard and soft skills crucial not only for scientific career	WAWRZYNIAK-ADAMCZEWSKA, Malgorzata
12:20	[323] Research in Physics Teaching in the Inter-American region from the IACPE	MONTERO, Eduardo
12:20	[4] Examining naïve conceptions regarding the enlightenment of a light bulb filament	Dr FESER, Markus Sebastian
12:20	[196] The MaSCot project: Materials science communication in informal learning environments	BOTZAKI, ELENI
12:20	[85] Trial of a New University Curriculum for Mathematics, Data Science, and AI Education	Mr FUJISAWA, Shuhei
12:30	[220] Understanding reversible and irreversible processes through activities	Ms HULI, Saurabhee
12:30	[89] The flat earth model – mapping misconceptions and failures	WEISSMAN, Efraim Yehuda
12:30	[316] Advanced Modeling, Scientific Computing & Data Analysis with Open SageMath	BOROVSKÝ, Dominik

12:30	[135] Development of Design Principles on the Planning of Didactic Sequences that use Science Fiction and Superhero Films and Series in the Teaching of Modern Physics	Mr PECLAT TEIXEIRA, Miguel
12:40	[263] Between teaching and learning: pre-service physics teachers' teaching experience	CEHÁKOVÁ, Lydia
12:40	[114] A relationship between collisions and the Betz limit	PEREIRA, Joao
12:40	[281] Assessing the Impact of Ungrading in a First-Year Mechanics Course at a Japanese Engineering College	Dr MUNEJIRI, Shuji
12:40	[318] Social Learning in Action: Asynchronous Perusal Colloquiums in Pre-Service STEM Teacher Training	Prof. HANČ, Jozef
12:50	[182] Amusement parks, playgrounds and the equivalence principle – Physics for the whole body and a smartphone or small toys	PENDRILL, Ann-Marie
12:50	[134] Long-lasting opinions on physics and physics education in the Czech Republic	Mr KOPŘIVA, Tomáš
12:50	[238] A Survey with Primary School students on the use of an Arduino-Uno based pyranometer and the temperature gauge	PAPANAGIOTOU, Zografia
12:50	[268] Measurement of the gravitational acceleration by secondary school and university students with the use of remote laboratories	BROM, Pavel