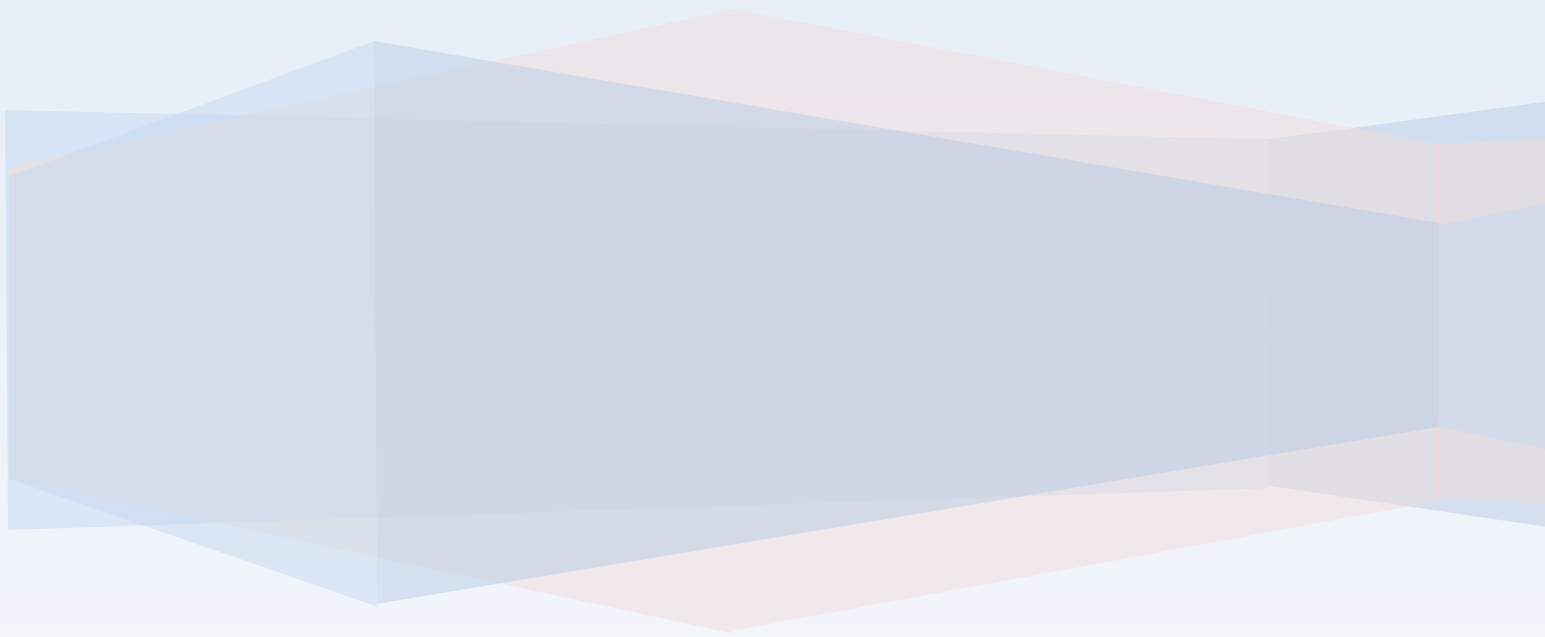


THURSDAY, 14

ORAL PRESENTATIONS

2PM-4PM



ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM A****ICT and Multi-Media in Physics Education**

Chair: Prof. Dr. P H SMEETS (CITO) - NETHERLANDS

Authors	Title	CODE
Nora Lia Maidana; Fonseca M.; Vanin VR	The virtual laboratory: a tool created to help teaching mechanics	OP3-A-1 2:00
P H H Smeets	Higher level Skills and interactivity in Assessment of ICT in Physics.	OP3-A-2 2:20
SAPNA SHARMA	Virtual Versus Traditional Physics Labs: A Perception Survey at Under Graduate Level through an Optics Experiment	OP3-A-3 2:40
Tiago Bode	PLAYER TYPOLOGIES: Digital Games in the life of Physics Undergraduate Students and Science Teachers	OP3-A-4 3:00
Martin Hernández Sustaita, Mario Ismael Martínez Licona, Claudia Mónica López León, Javier Salvador González Salas	Diagnostic study on access, use and appropriation of Information and Communication Technology in students and teachers of sciences of the UPSLP	OP3-A-5 3:20

ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM B****Motivational Strategies and Metacognition**

Chair: Prof. Dr. EWA (CMA) - NETHERLANDS

Authors	Title	CODE
Ana Rita Lopes Mota; Nilüfer Didis; Kelly Miller; Eric Mazur	Analyzing Problem-sets as a metacognitive tool in a team-based learning environment	OP3-B-1 2:00
Inés Prieto Schmidt Sauerwein, Ricardo Andreas Sauerwein	Media phenomena and the teaching of sciences	OP3-B-2 2:20
Julio César dos Santos Moreira; PESSANHA, P. R.; JUSTO, J. S.; PINTO, C. M.; QUEIROZ, G. R. P.	Surrealism in High School: Reflections on a multidisciplinary approach in the Teacher Education course	OP3-B-3 2:40
Maria Rosaria Del Sorbo	A flipped experience in Physics education using CLIL methodology	OP3-B-4 3:00
Roberto Capone	Inquiry Based Teaching: an experience with TEMI E.U. Project	OP3-B-5 3:20

ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM C****History and Philosophy of Physics AND University Physics**

Chair: Prof. Dr. Cibelle Celestino Silva (USP) - BRAZIL

Authors	Title	CODE
Hermann Schiffer Fernandes	Reading and writting historical narratives in science education to discuss the construction of scientific knowledge with a cultural-epistemic approach.	OP3-C-1 2:00
Maristela do Nascimento Rocha, Ivan Gurgel	The Power of the Link between Physical and Philosophical Reasoning in Physics Education	OP3-C-2 2:20
Renata da Fonseca Moraes Batista; Silva, C.C	How history of physics can be used in historical investigative experimental activities?	OP3-C-3 2:40

ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM D**

Physics Teaching and Learning in Informal Settings

Chair: Prof. Dr. André Machado Rodrigues (USP) - BRAZIL

Authors	Title	CODE
Fernanda A Q Gomes; Rodrigues, A.; Mattos, C.; Gomes, F A Q	The experimental layer of Masterclasses hands on particle physics: the meaning making process	OP3-D-1 2:00
Graciella Watanabe; Kawamura, M. R.; Munhoz, M.G.	An analysis of science popularization produced by CERN particle physicists: impacts and prospects.	OP3-D-2 2:20
Karel Kolar	Physics Education at the Camps of The Internet Physics Competition FYKOS	OP3-D-3 2:40
Peter Hubber	Growing Tall Poppies: Findings from a partnership program between students and scientists	OP3-D-4 3:00

ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM E****Primary School Physics**

Chair: Prof. Dr. CECILIA STARI (UDELAR) - URUGUAY

Authors	Title	CODE
Asuncion Menargues; Limiñana; Carolina; Rosa ; Rey; Martinez	How can we organize the horizon without a compass? A scientific didactical proposal for primary school education	OP3-E-1 2:00
Limiñana, R.; Menargues, Asuncion; Carolina; Rosa; Rey; Martinez	Development and assessment of a problem-based teaching about the air and its properties for the early stages of primary education	OP3-E-2 2:20
CECILIA STARI; S. Tomas; J. Viera	Forces and movement - a First approach with 6 years old children.	OP3-E-3 2:40
Mildred Guerrero	Discovering renewable energy concepts: A study of a learning sequence implanted among elementary school pupils	OP3-E-4 3:00

ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM F****Secondary School Physics**

Chair: Prof. Dr. Gesche Pospiech (TU DRESDEN)– GERMANY

Authors	Title	CODE
LETICIA ZAGO; Barros, M.A.; Bernardes, E. S.; Fernandes, L.G.	Design and implementation of a Teaching and Learning Sequence on topics of General Relativity for Secondary School	OP3-F-1 2:00
María de los Angeles Fanaro; Mariana Elgue; María Rita Otero; Marcelo Arlego	The students' interpretation of quantum mechanics concepts from the Feynman's Sum of All Paths applied to light	OP3-F-2 2:20
Gesche Pospiech	Interplay of physics, mathematics and metaphors in teaching quantum physics at high school	OP3-F-3 2:40

ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM G****Various Topics Physics Education**

Chair: Prof. Dr. MARISA MICHELINI (UNIUD) - ITALY

Authors	Title	CODE
MOHD ZAKI ISHAK, AZLINAH, NORAINI, SOPIAH	SCIENCE TEACHERS' VIEWS OF ENERGY CONCEPTS IN THE MALAYSIAN SCIENCE CURRICULUM	OP3-G-1 2:00
Roberto Macêdo Araújo; HOHENFELD, D.P. 1; LAPA, J.M.; MENDES, G. S.	Physics items categorization from Natural Sciences and their Technologies exam of ENEM	OP3-G-2 2:20
Silvana Perez, P. L. M. Rodrigues, R. J. M. Cardoso, M. F. Sousa	Exploratory analysis of the Education in Science in public high schools in Brazilian Amazon based on the National High School Exam	OP3-G-3 2:40
MARISA MICHELINI	Horizons of Physics Education - HOPE EU Project: an academic network	OP3-G-4 3:00

ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM H****Initial Physics Teacher Education**

Chair: Prof. Dr. Roberto Nardi (UNESP) - BRAZIL

Authors	Title	CODE
Renato Felix Rodrigues, Alexsandro Pereira	An Analysis of the use of specific events in explanations of pre-service physics teachers about Newton's Laws	OP3-H-1 2:00
Sérgio Rykio Kussuda; Nardi, R.	Possible improvements in the Physics Teachers Training Course: expectations and suggestions of evaded former students.	OP3-H-2 2:20
Tatiana Iveth Salazar López; Nardi, R.	Assessment of pre-service Physics teachers about the supervised teaching internship	OP3-H-3 2:40
WAGNER DUARTE JOSÉ; ANGOTTI, J. A.	PISA , STRUCTURING THEMES AND UNIFYING CONCEPTS IN PHYSICS TEACHING THROUGH INTERACTIVE SIMULATIONS	OP3-H-4 3:00

ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM I****Teaching Physics Concepts**

Chair: Prof. Dr. Lucia Helena Sasseron (USP- BRAZIL)

Authors	Title	CODE
Licurgo Peixoto de Brito; Monteiro, R. G. S.	An analysis of the principles of meaningful learning in physics teaching with thematic approach	OP3-I-1 2:00
Arthur Tadeu Ferraz, Lucia Helena Sasseron	Epistemic Goals for Promoting Argumentation in Inquiry Based Classes	OP3-I-2 2:20
María Rita Otero, Marcelo Arlego	Teaching basic special relativity in high school: the role of classical kinematics	OP3-I-3 2:40
Roussel De Carvalho	Multimodal and Embodied Physics Teaching and Learning, a case-study: The Electric Circuit Symbols' Kung-fu	OP3-I-4 3:00

ORAL PRESENTATION 3 (THURSDAY) - 2PM-4PM**ROOM J****Learning Physics Concepts**

Chair: Prof. Dr. Guilherme Brockington (UNIFESP – BRAZIL)

Authors	Title	CODE
Jorge Flores, David Anzules	The External Representations and the Motivational Strategies on the Students' Performance	OP3-J-1 2:00
Leonésia Leandro Pereira, Viviane Briccia, Luciana Sedano	The Development of Scientific Competencies in the Perspectives of Inquiry Based Science Education and Programme for International Student Assessment: the search for possible points of convergence and of tension	OP3-J-2 2:20
Marta Maximo Pereira, Maria Lucia Abib	Mediating elements used to recall scientific knowledge during Physics classes	OP3-J-3 2:40