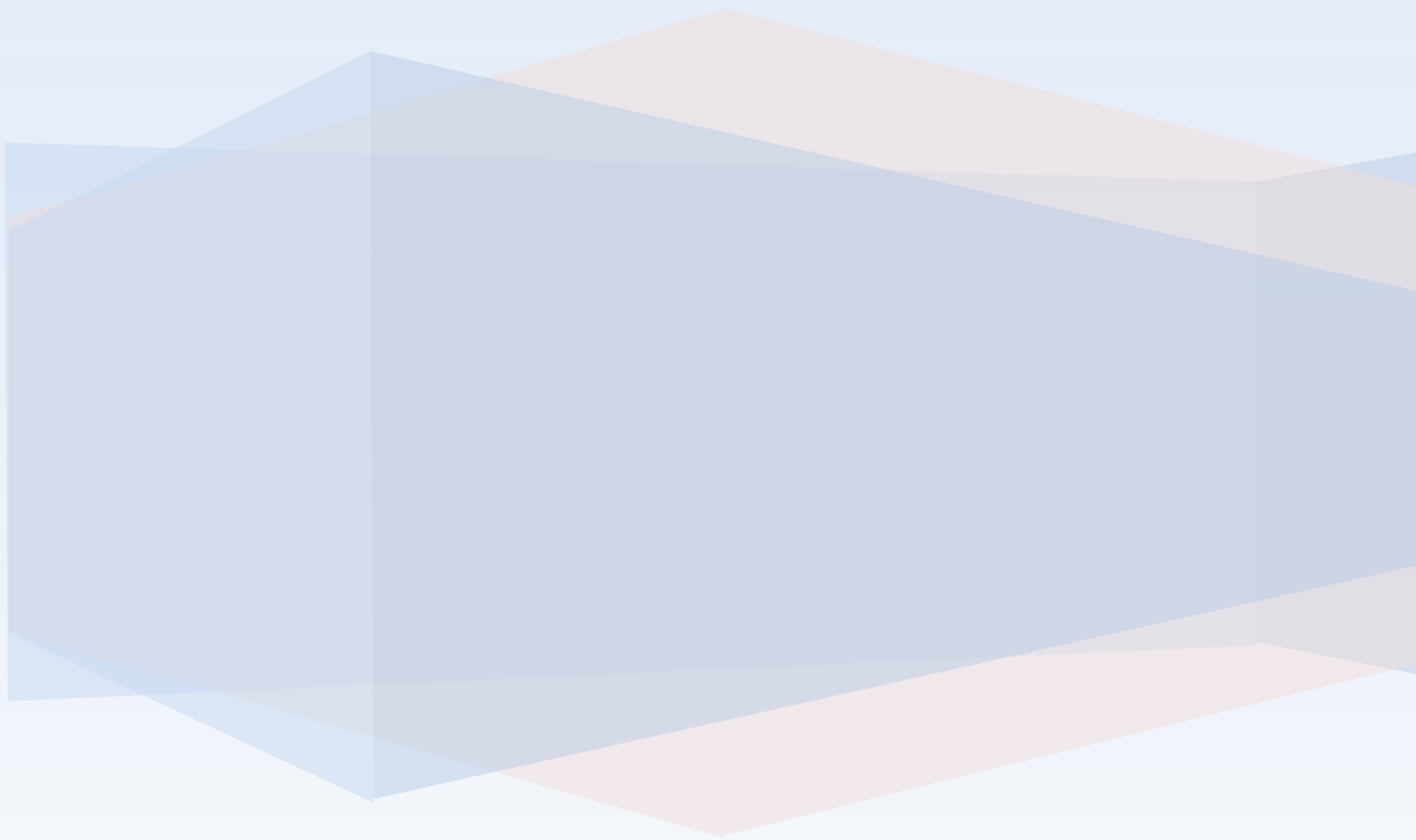


**TUESDAY, 12**

**Poster Presentations**

4:30PM-6:00PM



**POSTER PRESENTATION (TUESDAY) - 4:30PM-6:00PM****ROOM A****Initial Physics Teacher Education AND Teacher Professional Development**

Chair: Prof. Dr. Viviane Briccia (UESC) - BRAZIL

<b>Authors</b>	<b>Title</b>	<b>CODE</b>
MARTINS, R. I.; SANTOS, A. G.	Misconceptions in Physics of freshmen in the undergraduate physics teaching degree of a federal institute	PP-A-1
JESUS, A C S, NARDI, R	Reading of Physics Education Research Papers by Future Teachers	PP-A-2
OLIVEIRA, E. N., SILVA, J. A.	The Adolescence Theme in the Initial Formation of Physics Professors	PP-A-3
Rodrigues, F.M., Briccia, V. N	Teachers Knowledge in an in-service Education Astronomy Course: Challenges and Possibilities in Inquiry-based Approach	PP-A-4
Gabriela Ferreira, José Custódio	Reflections about Nature of Sciences: tensions and intentions in physical teacher education	PP-A-5
DA SILVA, J. B., FOGA_A, R. S., A. K. Hensch	THE PIBID CONTRIBUTION FOR INITIAL FORMATION OF PHYSICS PROFESSOR	PP-A-6
Márlon Caetano Ramos Pessanha	From a Design-based research to a Design-based Practice: reflections on the construction of an innovative specific pedagogical knowledge and the physics teacher education	PP-A-7
Machado, C., Leal, G. C., Rosa, G. M. D., Spillere, Alves, L. M., Santos, P. J. S., Silva, T. A. V., Santos, T. F. M.	Activities Using Educational Robotics Kits to Future Teachers	PP-A-8
Kneubil, Pietrocola	A Teaching-Learning Sequence on the Concept of Mass and Required Skills for Teaching Relativity	PP-A-9
Irena Dvorakova, Leos Dvorak	Informal Physics Teacher Training in Czech Republic: A Possible Inspiration	PP-A-10
BATISTA, J. L. P., COIMBRA, D	Approaching sound waveform with mathematical modeling to teach timbre concept	PP-A-11
Kyokolshii, Yoshihide Yamada	Cultivating a Professional Learning Community via Lesson Study Culture	PP-A-12
G. A. Marson, A. L. Paula dos Santos, L. Q. Amaral	STEM teachers perceptions on their formative needs in the interdisciplinary domain between physics, chemistry and biology	PP-A-13
Natália Pimenta, Maria Inês Ribas Rodrigues	Conceptions of teaching and learning: what think the teachers in higher education?	PP-A-14

Sabrina E. Alves; Martins, Silvia; Sales, Nilva L. L.	Discussing the Inquiry-Based Teaching with public school teachers	PP-A-15
LANGHI, R., OLIVEIRA, F. A, VILAÇA, J.	ASTRONOMY EDUCATION: AUTONOMY OF TEACHERS TO EXPERIMENTAL ACTIVITIES IN THE BRAZILIAN ERATOSTHENES PROJECT	PP-A-16

**POSTER PRESENTATION (TUESDAY) - 4:30PM-6:00PM**

**ROOM B**

**Learning Physics Concepts, Physics Teaching and Learning in Informal Settings AND Physics Curriculum**

Chair: Prof. Dr. Graciella Watanabe (UNB) - BRAZIL

<b>Authors</b>	<b>Title</b>	<b>CODE</b>
Bellucco, Carvalho	Mathematical argumentation in inquiring physics classes	PP-B-1
Del Duca, Barlette, Nedel	Developing a Test to Assessing Conceptual Evolution on Heat: A Pilot Study in Secondary School	PP-B-2
SILVA JÚNIOR, J. M., BENAQUIO, W. C., PRADO, R.T.	The development of concepts, attitudes and procedures during an investigative demonstration of the photoelectric effect.	PP-B-3
Karel Kolar	The Translation and Validation of Calculus Concept Inventory and its use in Czech Republic on Physics-Gifted High School Students	PP-B-4
Gombrade, R; Londero, L; Perez, J; Pereira, W	DEPERSONALIZATION IN ELEMENTAL PARTICLES PHYSICS IN SCHOOL TEXTBOOKS	PP-B-5
PRADO, R.T, BENAQUIO, W.C., SILVA JUNIOR, J.M	Use of concept maps as an auxiliary resource topics of waves and geometrical optics with high school classes.	PP-B-6
Tero Sahla	On the comprehension of astronomical distances	PP-B-7
MORAIS, A. J. O., SOUZA, A. E., PENA, A. F. V, TEIXEIRA, S. R., SOUZA FILHO, M. P., PEREIRA, J. S. A., ULLOFFO, N. M., PRECOMA, L. H., PRUDENTE, L. A., SOUZA, W. S.	Reinventing the show	PP-B-8
dos Santos, T., Peres, M. V., Ferrante, W., Lenz, J. A., Saavedra, N., Bezerra-Jr, A. G	Bringing Together Students, Teachers and Scientists to Improve Physics Teaching.	PP-B-9
Shigue, C. Y., Schneider, S. G., Gama, M. V. M., Galvão, I. C. M., Castilho, L. C. O., dos Santos, C. A. M.	Promoting the Physics learning for high school students through scientific initiation projects	PP-B-10
Pantoja, Huerta	A study on possible cognitive processes developed by middle education students in a visit to an Electromagnetism section of a Chilean Science Center	PP-B-11
P. V. Nogueira da Costa, M. Begalli, A. R. A. Santos	PIRARI - a board game to teach elementary particle physics	PP-B-12
CAETANO, R., CARDOSO, T. M. R. F. L	Electromagnetism and the History of Cataguases: A visit to the Museum of Energia	PP-B-13

Hirai, L.Y., Yano, V.T.B., SILVA, R.F.R., SILVA, V.H.S., ROS_RIO, T.L.S., ALMEIDA, T.P., MIRANDA, I.R.S.	SPACES OF NON-FORMAL EDUCATION: A CONTRIBUTION IN THE PROCESS OF TEACHING AND LEARNING IN PHYSICS	PP-B-14
MIRANDA, I.R.S., ALMEIDA, T.P., ROSÁRIO, T.L.S., Yano, V.T.B., SILVA, V.H.S., Hirai, L.Y., SILVA, R.F.R., OLIVEIRA, D.A.	MUSICSCIENCE: MUSIC AS AN ALTERNATIVE METHODOLOGY FOR TEACHING PHYSICS	PP-B-15
DEVEIKIS Jr., J., SCARINCI, A. L.	The implicit curriculum in a distance education course	PP-B-16
José Ricardo da Silva Alencar	The influence of Darwin's Theory Of Evolution in organizing the sequence of content in High School Textbooks of Physics in Brazil	PP-B-17
Julio Hernandez, Paulo Menezes, Giovana Nogueira	Analysis of the performance of undergraduate physics students in basic physics disciplines	PP-B-18

<b>POSTER PRESENTATION (TUESDAY) - 4:30PM-6:00PM</b>		
<b>ROOM C</b>		
<b>ICT and Multi-Media in Physics Education AND Motivational Strategies and Metacognition</b>		
Chair: Prof. Dr. Nora Maidana (USP) - BRAZIL		
<b>Authors</b>	<b>Title</b>	<b>CODE</b>
Martin Monteiro, Cecilia Cabeza, Cecilia Stari, Arturo C. Marti	What can you do with your students' smartphones while teaching Physics?	PP-C-1
C. Stari, L. Lenci, E. Benech, X. Otegui, L. Canuti, C. Raimondi	Extending the class to the online learning environment in Moodle	PP-C-2
Capelari, D., Oliveira, H. A	The use of ICT to teach Special Relativity in High School	PP-C-3
Lopez, F, Bertelli, L, Neto, V, Fonseca, M, Vanin, V, Maidana, N	Shedding light on normal modes with a virtual experiment	PP-C-4
GeislanaDuminelli, Gilson Schiavon, Michel Corsi	The new technological paths of learning: a robotic approach applied to the teaching of physics	PP-C-5
Jair Ribeiro, Maria Helena da Silva Carneiro	Reflective caustic tracing from Google Maps images: a geometrical optics activity	PP-C-6
Guimaraes R, J., França, M. M., Amazonas, J. G., Marialva, M. E. A	An epic space exploration for a playfull learning experience on physics	PP-C-7
Bertelli, L 1, Neto, V, Lopez, F, Fonseca, M, Vanin, V, Maidana, N	Relative Velocity experiments in the Virtual Laboratory.	PP-C-8
RODOLFO S. ROCHA, GIOVANA TREVISAN NOGUEIRA	USE OF NEW TECHNOLOGIES OF INFORMATION AND COMMUNICATION FOR APPLYING THE METHODOLOGY PEER INSTRUCTION FOR PHYSICAL EDUCATION IN SECONDARY EDUCATION	PP-C-9
de Paula, S.M., Testoni, L.A., Tahan, I.L., Brockington, G., da Silva, P.R.B.	The use of computational simulators for teaching Physics	PP-C-10
Neto, V., Lopez, F., Bertelli, L., Fonseca, M., Maidana, N., Vanin	Conservation of momentum: a study with the collision of a bar and a disc	PP-C-11
LIMA, M. S., MOREIRA, J. C. S., ASSIS, P. C., QUEIROZ, G. R. P. C, SILVA, A. M. T. B.	Planning the teaching of optics: in search of interdisciplinarity	PP-C-12
EDUARDO FOLCO CAPOSSOLI	Student Team Preparing for Participation in Brazilians Science Olympiad	PP-C-13

Ghirardello, Amarante, Martins, Selma, Ribeiro	Developing the concept of nanoscience through a playful activity in physics class to high school	PP-C-14
LOVATO, E G C, CAVALLINI E RODRIGUES, B	“Static”: An educacional game experienced by major students of IFSP	PP-C-15
Vanin, V., Fonseca, M., Leite, M. L., Barros, S., Maidana, N. L.	Oblique launching on an inclined plane with friction: A contextualized approach to the study of variable forces	PP-C-16

**POSTER PRESENTATION (TUESDAY) - 4:30PM-6:00PM**

**ROOM D**

**Secondary School Physics**

Chair: IVANILDA HIGA (UFPR) - BRAZIL

<b>Authors</b>	<b>Title</b>	<b>CODE</b>
Ana Rita Lopes Mota, J. M. B. Lopes dos Santos, Isabel Ribau, Paula Esperto	Peer and self-assessment: a mathematical model to improve the students' accountability in Lab Stations model	PP-D-1
Mometti, A. C.	SUPERCONDUCTIVITY IN SCHOOL: THE MODERN PHYSICS IN HIGH SCHOOL	PP-D-2
Orkiel, Edenilson, Silva, Silvio Luiz Rutz	The use of Information and Communication Technologies in teaching movements in two dimensions - launch oblique.	PP-D-3
Eduardo Bagnariolli de Oliveira, Fernanda Carvalho	RAYLEIGH SCATTERING AND RADIATIVE BALANCE: EXPERIMENTAL ACTIVITIES TO DISCUSS GLOBAL WARMING	PP-D-4
Mozena, E.R.; Ostermann, F	The teaching practice of physics education in interdisciplinary perspective in high school	PP-D-5
Zandomênic, Mota	Science Fair: space of learning and motivation.	PP-D-6
SETLIK, J., HIGA, I	WRITING IN PHYSICS CLASSES IN HIGH SCHOOL: POSSIBILITIES	PP-D-7
SANTOS, J. L., MERCADANTE, P. G.	Teaching Modern Physics in High School Using Atomic Models	PP-D-8
Louis Trudel	HIGH SCHOOL STUDENTS DIFFICULTIES IN UNDERSTANDING PARABOLIC MOTION USING CARTESIAN GRAPHS	PP-D-9
Gazzola, Otero, Llanos, Arlego	Representation systems of the physical and the mathematical models of an oscillating system: their influence on the conceptualization, learning and teaching	PP-D-10
María de los Angeles Fanaro, Mariana Elgue, María Rita Otero, Marcelo Arlego	The problems that secondary school students have being faced with the Feynman's Sum of all Paths	PP-D-11
Marisa Michelini, GeschePospiech, Alberto Stefanel	Factors inspiring secondary students to study physics. A study of Hope EU project	PP-D-12
Stievem, P., Santos, P. J. S., Franke, S. M. P.	A PROPOSAL TO TEACH IDEAL GAS MODEL IN HIGHSCHOOL	PP-D-13
SILVA, R. D., SILVA, G. R., Joao, H. A.	Tellurium: A didactic instrument for active learning	PP-D-14
Huaman, Rubens Parker, Leite, Cristina, MACHADO, V. F	MOBILE INTERNET AND SOCIAL IMPLICATIONS OF PUBLICITY: A PROPOSAL FOR SECONDARY SCHOOL	PP-D-15
Silva, Taynara N, Albuquerque, V. N., Martins, Vinicius Silva, Araujo, Bruno B., Leite, Cristina, Almeida, Rodrigo T de,	Proposal to high school students in the context of PIBID: light, color and vision	PP-D-16



Ribeiro, R. A. Carvalho, Gabriel		
Castilho, Thais B., Sales, Nilva L.L., Ovigli, Daniel Fernando Bovolenta	Discussing science and Nature of Science from science fiction movies: report of an extension activity.	PP-D-17
RIBEIRO, T.N., OLIVEIRA, W. C.	AN ANALYSIS ABOUT THE KNOWLEDGE LEVELS EXPECTED BY STUDENTS IN KINEMATICS CLIMB QUESTIONS IN THE NATIONAL EXAMINATION HIGH SCHOOL	PP-D-18
Bruno Vieira Gomides , Vanessa Carvalho de Andrade, Cintia Schwantes	METHODOLOGICAL STRUCTURES DIRECTED TO KINEMATICS TEACHING FOR STUDENTS DIAGNOSED WITH ADHD: USING MODELLUS AS INTERACTIVE INTERFACE BETWEEN THEORY AND PRACTICE	PP-D-19
Zhaofu Zhou	Linking Practice to Theory — A New Perspective of Teaching Research	PP-D-20

**POSTER PRESENTATION (TUESDAY) - 4:30PM-6:00PM**

**ROOM E**

**History and Philosophy of Physics, Socio-cultural Issues AND University Physics**

Chair: Prof. Dr. Marta Feijó Barroso (UFRJ) – BRAZIL

<b>Authors</b>	<b>Title</b>	<b>CODE</b>
Daniel M. Martini, André Batista	Planck's constant: The story told by Planck and the story told by textbooks	PP-E-1
Eliade Amanda Alves, Fumikazu Saito	Contributions of History of Science for the formation of physics teachers: the experiment of Count Rumford and the cold radiation	PP-E-2
ALCANTARA, SILVA, BRAGA	Discussing Aspects of the Nature of Science through the construction of a Knowledge Network: Thermodynamics Module	PP-E-3
Jardim, W. T., Guerra, A.	Modern and Contemporary Cosmology in Education: discussions of the Nature of Science in an explicit and contextualized comparative approach.	PP-E-4
Pietscher, A. C. C., Souza, C. R., Fagionato-Ruffino, S.	The possible influence of the scientific-cultural life experience aspects during the childhood at the professional choices of natural sciences researches.	PP-E-5
Heloísa Almeida Galdino Barbosa, Katemari Rosa	Deaf people in science teaching: A Literature Review	PP-E-6
Maria Ruthe Gomes da Silva, Katemari Rosa	Physics Textbook Analysis and Gender in Brazil: A Literature Review	PP-E-7
N. F. Aguero, M. O. De Marchi, G. S. P. Souza, A. B. Silva	Study of gender issues at the Institute of Physics of the University of São Paulo	PP-E-8
RODRIGUES, M. S.; LEITE, C.	The diversity of knowledge about the sky and astronomy education: educational proposals and potential of cultural astronomy	PP-E-9
RODRIGUES, A. G., COSTA, J. B. C., LYNCH, G.	CHARACTERISTICS AND IMPACT OF ANALYSIS OF PHYSICS LEVELING COURSE FOR FRESHMAN ENGINEERING IN THE INSTITUTE OF TECHNOLOGY OF FEDERAL UNIVERSITY OF PARÁ (ITEC-UFPA)	PP-E-10
Antonio C. C. Guimarães	Active Learning on Introductory Physics Courses for Engineering, Chemistry and Biology Students at UFRJ-Macaé	PP-E-11
Carmen P. C. Prado, André P. Vieira, Vera B. Henriques, J. R. B. Oliveira, R. Higa, Márcio T. do N. Varella, M. Teresa Lamy	Active learning in large classrooms environment: ongoing experiment in introductory physics courses at the University of São Paulo (USP).	PP-E-12
Elsa Lombard	Observation Protocol for the Instructional use of Representations (OPIR) in Physics	PP-E-13
Giovana Nogueira, Júlio Hernandes	Case study of basic laboratory disciplines of the Exact Sciences Course at the Federal University of Juiz de Fora	PP-E-14

H. R. Detoni, C.A.D. Zarro, M.F. Barroso	Freshmen college students and physics learning in a Brazilian Federal University	PP-E-15
João Paulo Camargo de Lima	Scientific Abilities, Relation to Knowledge and Reflection: A Study of the Students' Engagement in Experimental Design in Introductory Physics Laboratory from a Kuhnian Perspective.	PP-E-16
Reginaldo Manoel Teixeira, José Francisco Custódio	Feeling of reality and ontological prospection: Building connections between Popper's Three Worlds Theory and science education	PP-E-17

**POSTER PRESENTATION (TUESDAY) - 4:30PM-6:00PM**

**ROOM F**

**Various Topics Physics Education**

Chair: Prof. Dr. Giselle Watanabe (UFABC) - BRAZIL

<b>Authors</b>	<b>Title</b>	<b>CODE</b>
Esdras Viggiano, Cristiano Mattos	The Impact of Students' Socio-economic background on Physics performance in Brazilian Nacional Secondary Exam 2013	PP-F-1
Fábio Soares Pereira, Francisca Maria Barros, Alejandro Fonseca Duarte	THE NEED OF USING PLANNING METHODOLOGIES FOR PHYSICS TEACHING IN ACRE STATE, BRAZIL	PP-F-2
Carvalho Fernanda, Watanabe Giselle, Fátima Rodriguez-Marín	THE SOCIO-ENVIRONMENTAL QUESTIONS PRESENTED IN THE HIGH SCHOOL'S DIDACTIC BOOKS OF PHYSICS	PP-F-3
G. Rubini, M.F. Barroso	Physics questions of ENEM: some results from 2009 to 2013	PP-F-4
Ivani T. Lawall, Patrick Jordy	How does the Physics teacher choose the text book?	PP-F-5
Perez, J, Londero, L, Gombrade,R , Pereira, W	The Brazilian Research concerning Physics teaching to Visual and Hearing Impaired students	PP-F-6
Luciana Santana da Silva, Juliana Cilento, Mariana Gisbert Jardim dos Santos , Tainá de Araújo Carvalho, Alan Freitas Machado	Physics, society and arts: an approach to the International Year of Light	PP-F-7
Júlio César Nascimento, Katemari Rosa	General relativity in Physics textbooks and popularization of science materials: a comparative analysis	PP-F-8
SANTOS, Leandro A., CASTRO, ASM., BRINATTI, A. M.	THE STUDY OF THE MOTION IN A LEARNING PERSPECTIVE ACCORDING TO VYGOTSKY THEORY: A REPORT DUE A COLLABORATIVE WORK	PP-F-9
MESQUITA, L., BROCKINGTON, G., Oliveira, E. N., TESTONI, L.A.	Scientific reporting and its influence in physics education	PP-F-10
V.P. TRINDADE, M. FERREIRA, M.F. DA SILVA VERDEAUX	EVALUATION IN PHYSICS TEACHING-LEARNING PROCESSES IN RESEARCH IN PERSPECTIVE	PP-F-11
Rachel Deboni Papa, Eugenio Maria de França Ramos, João Eduardo Fernandes Ramos	Study of science fiction movies and the didactics experience of the "Cine Física"	PP-F-12
Rossi, R., Souza de Paula, B., Santos, A. C. F.	Developing STSE Instruction Material on Renewable Energy for High School.	PP-F-13
Thais Rocha Budrevicius,	WATER THEMES PRESENT IN EDUCATION TEXTBOOKS	PP-F-14

Giselle Watanabe		
Thiago Roberto Silva SantAnna, Giselle Watanabe	ENERGY THEME AND COMPLEXITY ASPECTS PRESENCE IN ACADEMIC PAPERS	PP-F-15
Pereira, W., LONDERO, L., GOMBRADE, R., PEREZ, J.	AN ANALYSIS OF THE PRESENTATION OF PHYSICS PRODUCED IN BRAZIL IN COLLECTIONS OF THE NATIONAL TEXTBOOK PROGRAM OF PHYSICS TEACHING (2015-2017)	PP-F-16
Wilson, João Mauro, Ramon	The use of concept maps as an instrument for assessing learning topics related to the Photoelectric Effect for a high school class	PP-F-17

**POSTER PRESENTATION (TUESDAY) - 4:30PM-6:00PM****ROOM G****Teaching Physics Concepts**

Chair: IVÃ GURGEL (USP) - BRAZIL

<b>Authors</b>	<b>Title</b>	<b>CODE</b>
Gomes, G. E. A., Martinez, A. I., Pereira, A. L. J., Lourenço, A. B.	Physics teaching and Conceptual Maps: a possible partnership	PP-G-1
BARROS, B. S. M., SOUZA, E. V.	The direct observation of gravitational waves, in the teaching of Physics	PP-G-2
Gonçalves, B.S, Britto, D. L. S, Costa, S.A.R, Ribeiro, V.A	Energy and Nanoscience: an innovative approach to the teaching of physics focused on basic education	PP-G-3
ELISSANDRA CATELI, DEIMLING, C., DEIMLING, N.M	FROM COMMON SENSE TO SCIENTIFIC KNOWLEDGE: A DIDACTIC-PEDAGOGIC PROPOSAL FOR TEACHING ELECTROMAGNETISM TOPICS ON HIGH SCHOOL	PP-G-4
PIRES, F.F., SILVA, J.A.	Aesthetics and symmetry in Physics and its implications for teaching: a bibliographic research	PP-G-5
MARCOM, G. S., KLEINKE, M. U.	Contributions of "Problems Solving Strategies" for ENEM Physics Issues	PP-G-6
Gustavo Sander Larios, Mario Eduardo Mari, Allan Vitor Ribeiro, Selma Costa	Modern and contemporary physical in the context of nanotechnology: An approach focused on production of electric energy.	PP-G-7
Izabella Nunes de Vasconcelos	Modeling as a proposal for teaching Physics in Brazilian high schools	PP-G-8
Amazonas, J. G. Marialva, M. E. A., Guimarães, J. R.	Amazon legends in physics teaching: Pedagogical instruments for elementary school teachers.	PP-G-9
João Alberto Mesquita Pereira	UNIFORM MOTION AND THE BIG BANG THEORY	PP-G-10
LICIO, J. G., SILVA, C. C	Discussing Nature of Science based on Nobel Prize laureates' lectures	PP-G-11
PEREIRA, J. S. A., CARDOSO, C. X., Rafaela Sandro	Physics in Ballet	PP-G-12
Oliveira, L.M, Gomes, M. L	The Scientific Theater in Physics Teaching	PP-G-13
Amarante, L.C.V., GHIRARDELLO, D., COSTA, S.A.R., RIBEIRO, A.V., Caretta, R.	Use of active methodologies for teaching concepts of nanoscience and nanotechnology in Brazilian public high school	PP-G-14
David, L. H., GARCIA-CARMONA, A., Watanabe, G	THE PRESENCE OF ENVIRONMENTAL THEMES LINED AT PHYSICS AND IN ASPECTS OF THE NATURE OF SCIENCE IN ACADEMIC PAPER	PP-G-15

P. M. BARROS, M.F. DA SILVA VERDEAUX	Construction of a Potentially Meaningful Teaching Units on concepts of electrodynamics.	PP-G-16
VAZ, E. L., Calegari, M. H., Gaulke, A. M., do Carmo, A. B	ANALOGIES: OTHER FORMS OF APPROACH OF SCIENTIFIC KNOWLEDGE	PP-G-17
Vieira, Mônica, Horvath, Jorge	STELLAR ASTROPHYSICS AND ITS POTENTIAL FOR PHYSICS TEACHING	PP-G-18
Nathan Lima, Claudio Cavalcanti, Fernanda Ostermann	A Brunerean-Freirean Approach to Physics Instruction in Technological Courses of Radiology	PP-G-19
Bruno Vieira Gomides, Vanessa Carvalho de Andrade, Cintia Schwantes	TEORIA DA RELATIVIDADE RESTRITA E GERAL AO LONGO DO 1o ANO DO ENSINO MÉDIO: UMA PROPOSTA DE INSERÇÃO	PP-G-20

**POSTER PRESENTATION (TUESDAY) - 4:30PM-6:00PM**

**ROOM H**

**Laboratory Activities in Physics Education AND Primary School Physics**

Chair: Prof. Dr. Cristina Leite (USP) - BRAZIL

<b>Authors</b>	<b>Title</b>	<b>CODE</b>
Álvaro Suárez, Marcelo Vachetta	How to Know if a Building Can Resist an Earthquake	PP-H-1
Leonardo Pereira Vieira, Carlos Eduardo Aguiar	Malus' Law on a Smartphone	PP-H-2
Ana Lucia Dencker, Carlos Raphael Rocha	The Laboratory of Demonstration and Physics Teaching as an aid instrument for teachers and undergraduate students and to promote scientific divulgation	PP-H-3
Chayenny Edna da Silva Rodrigues, Sebastião da Silva Pinto, Thiago Silva Araújo, Tâmara Pereira Ribeiro de Oliveira Lima e Silva	Designing an Optical Fiber System for Transmission of Data in Classroom	PP-H-4
Leonardo Albuquerque Heidemann, Ives Solano Araujo, Eliane Angela Veit	Just-in-Time Teaching in introductory physics laboratory courses: students' attitudes toward inquiry-based activities focused on scientific modeling	PP-H-5
Fabrizio Logiurato	New Visualizations of Wave and Light Interference	PP-H-6
Ivanna. A. Chagas, Arturo. C.Marti	Comparison of students's response using a smartphone-based or a traditional laboratory.	PP-H-7
Paranhos, R R G, Póvoa, J M	PROPOSAL OF EXPERIMENTAL PRACTICES BASED ON CONSTRUCTIVIST THEORY TO PHYSICS TEACHING. CASE STUDY: UNDERGRADUATE COURSE IN INNOVATION ENGINEERING	PP-H-8
J. P. S. Alves, Charles R. Silva, Silvana Perez, J. A. Miranda	A teaching proposal applying the methodology of teaching from research in physics in the Brazilian Amazon region using the International Young Physics Tournament	PP-H-9
W. Pichi Jr, D.C. Gatti, M. L. P. Silva	Simple, low cost devices and methodological approach for teaching fluid mechanics to undergraduate students: correlations with high school syllabus	PP-H-10
HUEY-POR CHANG	Science education for adults: An example from the class of Science, Technology and Creativity at Open University of Kaohsiung	PP-H-11
OLIVEIRA, LEITE	The Emergence of the Natural Sciences in the Public Primary Education of Empire Brazilian	PP-H-12
José Antônio Duarte, Gabriela Mendes Silva, Janice Cordeiro	Physics Concepts and Teacher Education: concerns about a simple and narrow view of Science under the	PP-H-13



Moreira	perspective of Piaget s Constructivism	
Mildred Guerrero	Pedagogical approach when visiting the museum: learning science in the elementary class	PP-H-14