2nd EUROPEAN REGIONAL HISTORY PHILOSOPHY AND SCIENCE TEACHING CONFERENCE – IHPST2025

27 – 29 June 2025 – Athens, Greece

ATHENS 2025
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HELLENIC REPUBLIC
National and Kapodistrian University of Athens
EST. 1837

Conference Program

Friday 27th June

15.30-17.00 ---------- Registration (MTC)*

Regular Session 1 (MTC)*

Room 1	Kalaitzoglou Ioannis	Teaching Quantum Mechanics in Secondary Education: Challenges and Proposals	**17.00-18.30**
	Dimitris Skordos	Aspects of the Reception of Quantum Physics in Interwar Greece - A Unique Publication in Neoi Protoporoi	
	Kateris Alexandros, Lazos Panagiotis, Tsoukos Serafeim, Tzamalis Pavlos & Velentzas Athanasios	Using Historical Scientific Publications in Physics Education: The Case of Millikan's Experiment for the Photoelectric Effect	
	Agustín Adúriz-Bravo, Bruno Borge, Natalia Buacar, Ana Couló & Ignacio Madroñal	Towards a didactics of the philosophy of science for non-philosophers	
Room 2	Anastasia Ferentinou, Achilleas Mandrikas & Constantina Stefanidou	STEAM in Action: Addressing Local Challenges	**17.00-18.30**
	Constantina Stefanidou	The Role of History and Philosophy of Science in Fostering Scientific Rationalism and Trust in Science Education	
	Koliopoulos Dimitrios	The history and philosophy of science in the service of science education: The case of F. Halbwachs	
	Kostas Tampakis	Astronomy for all in Cold War Greece: Establishing the Eugenides Planetarium in Athens	

19.00-19.30 ---------- Opening Session (MTC)*

Welcome Addresses

Vassilis Tsafos	Professor, Dean of the School of Education, National and Kapodistrian University of Athens
Kostas Skordoulis	Professor, President of the Department of Pedagogy and Primary Education, National and Kapodistrian University of Athens
Thomas Babalis	Professor, President elect of the Department of Pedagogy and Primary Education, National and Kapodistrian University of Athens
Gianna Katsiampoura	Associate Professor, Honorary Chair of the Conference, National and Kapodistrian University of Athens

Session Chair: Constantina Stefanidou, Laboratory Teaching Staff, National and Kapodistrian University of Athens

Plenary Session 1 (MTC)*

Efthymmios Nicolaidis	**Science Education and National Histories**	**19.30-20.30**

20.30-22.30 ---------- Welcome get-together Dinner (MTC)*

Saturday 28th June

Regular Session 2 (MTC)*

Room 1	Vasiliki Psoma & Constantine Skordoulis	Historical Experiments in STEAM Education: Exploring the shift in students' conceptions of and attitudes towards Technology	**9.30-11.00**
	Lazos Panagiotis	Historical scientific instruments in contemporary physics education. Studying the paradox of the double cone with a 3d printed model	

	Flora Paparou & Vasiliki Lianou	“Historical Scientific Curiosities” – A school project on the contextual teaching of science	
	Peter Heering	Reconstructing Historical Instruments for Educational Purposes	
Room 2	Jenny Potiriadou	The perspectives of Secondary Education Teachers and Students on Best Practices for integrating Artificial Intelligence into Physics Teaching	**9.30-11.00**
	Dionysios Theocharis	Artificial intelligence in science education (applications, extensions and ethical issues)	
	Vassileios Kathareios & Gianna Katsiampoura	“Formal" and “Substantive” Bias or Generative Artificial Intelligence: A Critical Pedagogical Assessment	
	Hagop A. Yacoubian	Revisiting Scientific Literacy in the Age of GenAI	

11.00 - 11.30 ---------- Coffee Break

Regular Session 3 (MTC)*

Room 1	Anna Teka, Constantina Stefanidou & Apostolia (Lia) Galani	Scientific Literacy in Pre-Service Teachers: Understanding the Methods of Scientific Inquiry	**11.30-13.00**
	Beatriz Maia de Sousa & Thais C.M.Forato	Nuclear Theory of the Atom: social justice and socio-scientific aspects	
	Ayhan Aksoy & Merve Kostur	Animating Archimedes: Teaching Calculus Through History and Interactive Geometry	
	Anastasios Zoupidis, Vasilis Tselfes & Petros Kariotoglou	Identifying differentiated profiles of associations between pre-service early childhood teachers' views on scientific practices and inquiry-based teaching-learning practices	
Room 2	Nausika Kapsala & Apostolia Galani	Tracing the Thread: A Historical Perspective to Raise Climate Change Awareness	**11.30-13.00**
	Lina Vinitsky-Pinsky & Artour V. Mouftakhov	Discipline-Culture Approach to the History backed Teaching of Angle Measurements in High School	

	Andreas Sofianos, Vasileios Kalpakides, Frank Coutelieris & Constantine Skordoulis	Towards an Internal History of Dynamical Systems Theory and Chaos	
	Chara Bitsaki, Lorenzo Miami, Dimitris Stavrou & Olivia Levrini	Pre-Service Teachers' Perspectives on Complexity and Uncertainty in an Interdisciplinary Approach to Climate Change	
Room 3	Kassandrinou Katerina	Rationalism and Pseudoscience in Education: A Sociological Approach	**11.30-13.00**
	Hasan Ozcan, Abdulkadir Ozkaya & Ilker Kostur	45 years of the Philosophy of Science: A bibliometric analysis	
	Ozgur Taskin	Epistemological Shifts in Evolution Education Studies:Politics, Funding and Philosophy	
	Constantine Skordoulis, Gianna Katsiampoura & Aristotelis Gkiolmas	Edgar Zilsel on the Problems of Empiricism and the Concept of the Physical Law	
13.00 - 13.30 ---------- Coffee Break			
Regular Session 4 (MTC)*			
Room 1	Halil Ilteris Kutlu	Politics, Wisdom, and Governance: The Influence of Ancient Greek Thought on the Ottoman Educational System in the Enderun School	**13.30-15.00**
	Anthoula Ioanna Kritikou, Myrto Evangelia Nikolaidi, Thomas Havianidis & Kostas Tampakis	Jonathan Swift's critique of the science of the time through his work "Gulliver's Travels" and specifically the chapter "A Voyage to Laputa"	
	Gianna Katsiampoura	The “Astronomical Tribiblos” of Theodore Meliteniotis: An exemplary Byzantine astronomical sourcebook	
Room 2	Anna Pshenichny-Mamo Haya Ben Simon Dina Tsybulsky	Teaching NOS to science educators: Professional development courses designed as pedagogy of practice	**13.30-15.00**
	Eirini Katsifi, Constantina Stefanidou & Evangelia Mavrikaki	Exploring the Nature of Science Through Podcasts	
	Agustín Adúriz-Bravo Carolina Pipitone	Nature of science in science teacher education: A study of prospective secondary teachers’ understanding of the diversity of epistemological views	
15.00 - 15.30 ---------- Snack break			

1st Floor Corridor ----------Poster Session (MTC)*			
	Maria Panagopoulou & Constantina Stefanidou	Educational use of historical scientific instruments: Teacher training approach	**15.30-17.00**
	Panagiotis (Takis) Lazos, Eleni Avgeri, Constantina Stefanidou & Constantine Skordoulis	An ongoing Journey Through Science, History, and Education: The case of the Maraslean Teaching Centre Collection	
	Chara Bitsaki, Olivia Levrini & Dimitris Stavrou	FEDORAS' Academy: Embracing Complexity and Uncertainty for Sustainable Futures in STEM Education	
Workshops (MTC)*			
Room 1	Panagiotis (Takis) Lazos, Constantina Stefanidou & Constantine Skordoulis	Hands-on History: The Role of Historical Scientific Instruments in Science Education in the context of INSIGHT Project	**15.30-17.00**
Room 2	Saltaoura Katerina Maria & Garyfallia Delagrammatika	Optical Illusions and the Pepper's Ghost Technique: From 19th-Century Theater to Educational Applications	
Plenary Session 2 (AUHM)**			
	Kostas Gavroglu	**Enigmatic encounters:Teaching about historical events that took place, about which we know nothing else**	**20.00-21.00**
Cultural Event 1 (AUHM)**			
	Theatrical Reading based on K.Gavroglu's Play "Galileo's Pope"	**Directorial supervision: Panagiotis (Takis) Tzamargias, Dramaturgical adaptation: Constantina Stefanidou, Reading: Dimitris Karasmailis, Kostis Ntoumpas, Mando Michaliou, Original music and performance: Iason Chrysostomides, Set design: Dorina Polizou.**	**21.00-22.00**

22.00 ------- Conference Dinner

Sunday 29th June

Regular Session 5 (MTC)*

Room 1	Agustín Adúriz-Bravo & Ainoa Marzabal	Characterising School Scientific Models: A Semantic Perspective	**9.30-11.00**
	Ivã Gurgel & Graciella Watanabe	What Role for Science in Contemporary Society? Proposals Based on the Dialectic Between Modernity and Non-modernity	
	Ilia Sholin & Taha Rajab	Integrating Large Language Models into Science Education: A case study on 'Ecosystems and Biomes'	
	Velentzas Athanassios & Ioannis Theodonis	Large Language Models in HPST Research: Opportunities, Challenges, and Insights from a Case Study on Millikan's Experiment in Verifying Einstein's Explanation of the Photoelectric Effect	

Room 2	Vasiliki Christopoulou	Error Analysis and Critical Thinking: Edward Pickering's Scientific Approach to Thought-Transference	**9.30-11.00**
	Merve Koştur & Ayhan Aksoy	Exploring the Concepts of Shoemaker's Knife (Arbelos) and Salinon with GeoGebra: An Application with Mathematics Teacher Candidates	
	Ilker Kostur & Hasan Ozcan	From Erector Sets to Early Computers: The Role of Construction Toys in the Development of Computing Technology	

11.00 - 11.30 ---------- Coffee Break

Cultural Event 2 (MTC)*

The Kotsanas Museum of Ancient Greek Technology

Dimitris Galanis: "Communication of Science through a Science Museum perspective: Kotsanas Museum case"	**11.30 - 12.15**
Kotsanas Museum: video presentation of key exhibits	**12.15 - 12.30**

Kotsanas Museum: Strategic Games in Ancient Greece and hands-on activities educational kit: "The Heart of the Antikythera Mechanism"	**12.30 - 13.30**

13.30-14.00 ----------Closing Session (MTC)*

14.00 - 15.00 ---------- Snack to go

15.00-17.00 ---------- Historical Athens Walking Tour

***Maraslean Teaching Center (MTC)**

****Athens University History Museum (AUHM)**