

# Program for the 1st European Regional IHPST Conference

<b>Monday, August 22<sup>nd</sup></b>	
14:00 – 17:00	<b>Registration</b>
19:00 – 21:00	<p>Opening, 1 st Plenary:</p> <p><b>Goethes Theory of Colour Reconsidered: New Experiments on the Symmetry of Spectral Phenomena</b></p> <p>Prof. Dr. Joh. Grebe-Ellis, Bergische Universität Wuppertal</p>

<b>Tuesday, August 23<sup>rd</sup></b>			
	Room EB 161	Room EB 162	Room EB 163
09:00 – 09:30	<b>Husserl and Science Education</b> (Lydia Murmann)	<b>The Nature of Biological Science: What can Biology Lessons contribute to Science as Culture?</b> (Jörg Zabel)	<b>Science dynamics at the university museum. Teaching the nature of science at the crossroads of the history of science and the classroom</b> (Jelle De Schrijver)
09:30 – 10:00	<b>The atlas movies channel on YouTube: Non-experts give form, shape and sound to abstract science concepts</b> (Ana Leci, Fanny Seroglou)	<b>Practical experience of some ways by which integrated history and philosophy of medicine can be valuable to medical training</b> (Nicholas Binney)	<b>Performative Dimensions of the Socially Inclusive Science Centre</b> (Lydia Schulze Heuling)
10:00 – 10:30	<b>How can we inspire students emotionally in physics classes by using the history of science?</b> (Lea Valentina Lavrik, Meir Vladimir Shunyakov)	<b>How to implement 100 year old American thinking in modern European science education?</b> (Morten Rask Petersen)	<b>Different Uses of Complex Numbers in Physics</b> (Ricardo Karam)
10:30 – 11:00	<b>Coffee</b>		
11:00 – 11:30	<b>The Challenge of Teaching Science as a Cultural Activity: New Directions for NOS</b> (Arne Dittmer, Agustin Aduriz-Bravo)	<b>Re-tracing the transformation of research instruments for teaching purposes: the circulation of the cloud chamber as a teaching apparatus during the twentieth century</b> (Eugenio Bertozzi)	<b>“And yet it does not move!” Fostering students’ rooting in science education</b> (Edvin Østergaard)
11:30 – 12:00	<b>The Challenge of Teaching Science as a Cultural Activity: Which Directions for NOS?</b> (Agustin Aduriz-Bravo)	<b>H.C. Ørsted, Science and "Dannelse" in the early 19th century. - Relevant for educational thinking today?</b>	<b>Teachers’ Beliefs about argumentation - A comparison in the Context of the disciplinary cultures of science and language</b>

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		(Jens Jakob Ellebæk)	<b>education</b> (Julia Schwanewedel, Finja Grospietsch)
12:00 – 12:30	<b>Dialogue and Debate in Biological Education</b> (Florian Kolbinger)	<b>The language and underlying culture of Error: in the history of Science and in today's classrooms</b> (Susanne Heinicke)	<b>Teaching science in second chance schools: Two case studies inspired by philosophy of science</b> (Anna Tzampazi)
12:30 – 14:00	<b>Lunch</b>		
14:00 – 15:00	<b>Scientific proficiency through philosophical literacy</b> Hanne Andersen (University of Copenhagen)		
15:00 – 15:30	<b>Coffee</b>		
	<b>Room EB 161</b>	<b>Room EB 162</b>	<b>Room EB 163</b>
15:30 – 16:00	<b>Selective Realism in the History of Modern Science</b> (Prof. Alberto Cordero-Lecca)	<b>Astronomy and History of Science in European Context - a Network for Edutainment</b> (Gudrun Wolfschmidt)	<b>Making Environments for Learning: Recreating in the Space and Vision of a Century ago</b> (Elizabeth Cavicchi)
16:00 – 16:30	<b>The relevance of worldview perspectives in science education</b> (Lena Hansson)	<b>Students' contest with Eratosthenes: boreal lake vs Egyptian desert</b> (Ekaterina Teteleva, Sergey Bogdanov)	<b>Just another Christmas Lecture?</b> (Martin Panusch)
16:30 – 17:00	<b>Moral Reasoning in the Science Classroom - Evaluation of a Pre-Service Teacher Training Program</b> (Rene Leubecher, Alexander Bergmann, Alexander Finger)	<b>Teachers' enactment approaches to instructional materials based on history of science</b> (Burcu Gülay Güney, Hayati Seker)	<b>History and Philosophy of Science for Citizenship: The case of "Life of Galileo" by B.Brecht.</b> (Constantina Stefanidou)

<b>Wednesday, August 24<sup>th</sup></b>			
	<b>Room EB 161</b>	<b>Room EB 162</b>	<b>Room EB 163</b>
09:00 – 09:30	<b>Nature of science instruction to prospective chemistry teachers: What has changed after 5 years?</b> (Oya Aglarci)	<b>Ontology and Diagrams: the mathematical reasoning in Newton's Principia</b> (Pierre Boulos)	<b>Students' Reasons for Preferring Teleological or Causal Explanations</b> (Frederike Trommler, Helge Gresch, Marcus Hammann)
09:30 – 10:00	<b>History, Philosophy and the study of nature of science: reflections for science lessons in multicultural schools</b> (Haira Gandolfi, Shirley Simon)	<b>Exposing Color: Newton's Theory through Maxwell's Lens</b> (Valentina Roberti, Giulio Peruzzi)	<b>Collaboration and Communication - forgotten aspects when using HOS in biology classrooms?</b> (Ami Friedman)
10:00 – 10:30	<b>Methodological differences between science and pseudoscience: the case of</b>	<b>The changing role of Newton's fits in 18th century: social and cultural factors for the rejection of a</b>	<b>Teaching models of electric current in upper secondary school physics: The role of macroscopic</b>

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	<b>crystals from the standpoint of 8th graders</b> (Duygu Metin, Jale Cakiroglu, Gulsen Leblebicioglu)	<b>theory</b> (Breno Moura)	<b>and microscopic models in teaching electric current</b> (Terhi Mäntylä, Ismo Koponen)
10:30 – 11:00	<b>Coffee</b>		
11:00 – 11:30	<b>Teachers' conceptualization of science education and their usage of history of science</b> (Çiçek Dilek Bakanay, Mustafa Çakir)	<b>The epidemiology of representations as an integrative framework for the history of science and science education</b> (Stefaan Blancke, Thom Scott-Phillips, Johan Braeckman)	<b>A Framework for Analyzing the Image of the Scientist Portrayed through Educational Resources</b> (Hagop Yacoubian, Taline Mardirossian, Layan Al-Khatib)
11:30 – 12:00	<b>Exploring the influence of pre-service science teachers' personal epistemologies on their acceptance or rejection of Education Studies</b> (Liam Guilfoyle, Sibel Erduran, Orla McCormack)	<b>History of Science in nowadays Teaching Science. Levels of Context, Illustrations and Framework</b> (Marina Castells)	<b>Thinking about everyday myths. Case studies in biology class.</b> (Britta Lübke, Ulrich Gebhard)
12:00 – 12:30		<b>Cultural Theory of Risk and the Psychometric Paradigm - Perception of risk in the science classroom</b> (Julia Hansen, Helge Gresch, Marcus Hammann)	<b>Believe in, believe about: Which question do polls about evolution really ask, and why does it matter?</b> (Kostas Kampourakis, Kevin McCain)
12:30 – 14:00	<b>Lunch</b>		
14:00 – 15:00	<b>Looking Through the Kaleidoscope</b> Iwan Rhys Morus (Aberystwyth University)		
15:00 – 15:30	<b>Coffee</b>		
	<b>Room EB 161</b>	<b>Room EB 162</b>	<b>Room EB 163</b>
15:30 – 16:00	<b>An Investigation of Preservice Science Teachers' Views of the Epistemic, Cognitive and Social Aims and Values of Science</b> (Regina Kelly, Sibel Erduran)	<b>Socio-cultural aspects of science in the science classroom: teachers' perspectives</b> (Lotta Leden, Lena Hansson, Andreas Redfors)	<b>Ørsted, Humboldt, Gauss, Weber, Schumacher, and magnetism, and narratives in the classroom</b> (Claus Michelsen)
16:00 – 16:30	<b>Towards defining and assessing genetic determinism</b> (Tim Heemann, Marcus Hammann)	<b>Pseudoscience as a context for teaching and assessing NOS</b> (Mario Kötter)	<b>Historical contextualisation of Hooke's Law in Education</b> (Sabina Muminovic)
16:30 – 17:00	<b>The intuitive new thinking in science through Beneke and Mach: Mathematical Intuitionism and "New Physics"</b> (Hayo Siemsen)	<b>Teaching Nature of Science to Teachers</b> (Douglas Allchin, Eduardo Cortez, Maria Elice Prestes)	<b>Enriching thermodynamic teaching and learning with Holton's tapestry</b> (Paulo Mauricio)

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19.00 - 22.00	<b>Poster Session</b> at Phänomenta
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<b>Thursday, August 25<sup>th</sup></b>		
	<b>Room EB 161</b>	<b>Room EB 162</b>
09:00 - 09:30	<b>The Cultural Argument for Understanding Nature of Science - What is behind it?</b> (Prof. Dr. Reiners)	<b>Measuring attitudes towards evolution as related to religious faith and dualistic thinking</b> (Anna Beniermann, Dittmar Graf)
09:30 - 10:00	<b>Using the History of Chemistry to Teach the Nature of Scientific Laws and Theories</b> (Karl Marniok)	<b>Conflicting Interpretation of Scientific Pedagogy</b> (Arthur Galamba)
10:00 - 10:30	<b>"Creating Creativity": Improving Pre-service Teachers' Conceptions about Creativity in Chemistry</b> (Markus Bliersbach)	<b>Issues of intercultural competence in Swedish science education</b> (Oleg Popov)
10:30 - 11:00	<b>Coffee</b>	
11:00 - 11:30	<b>Plenty of room? Approaching the field of nanotechnology in senior science classes in Germany</b> (Andreas Junk)	<b>Learning Science as Cultural Activity: Delaying Specialization, Educating Citizens</b> Barbara A. McMillan
11:30 - 12:00	<b>Story Telling with teachers - Experiences and Perspectives</b> (Peter Heering)	<b>Fostering students' Neuroscience Literacy by critically reflecting their intuitive beliefs</b> (Alexander Bergmann, Jörg Zabel)