

time	Monday, 19 th July	Tuesday, 20 th July	Wednesday, 21 st July	Thursday, 22 nd July	Friday, 23 rd July		
9:00 – 9:30	<p style="text-align: center;">Registration conference office (HEL 066)</p> <p style="text-align: center;">lunch break</p>	M. Markert: Enacting Experimental Physics in the Lecture Hall	<p>Excursion to Hauch's Physiske Cabinet in Soro (bus transfer)</p> <p>departure in Flensburg from the venue 08:00hrs</p> <p>arrival in Soro 11:00hrs</p> <p>return to Flensburg 16:00hrs (arrival at the venue 19:00hrs)</p>	Pierrì , Florencia: A Different Kind of Computer Game	P. Nykänen: Thin blue line between Science and Technology: The Huber Model of the water closet		
9:30 – 10:00		R. Kremer: Introducing Electronic Experiments into Physics Teaching in the 1920's		Carlos A. Cardoso: The transformations of the topic 'light intensity'	S. Johnston: Object Lessons in the Asylum: Thomas Dexter and the Portable Museum	Forstner, Christian: : From research to education: Mach-Zehnder interferometers for teaching students and museum visitors	
10:00 – 10:30		J. Simon: Tradition vs. Innovation in the Making of Physics Pedagogy in America		Van der Spek, Trienke: The birth of the earth: theory, visualization and perception	P. Urbanowicz: Affordances of electric machines in public science in Poland	Elliott, Francesca: From Working Machine to Educational Tool – A Steam Turbine and Generator at the Science and Industry Museum	
10:30 – 11:00		coffee break		coffee break		coffee break	
11:00 – 11:30		Plenary Talk (HEL 160): Talas, Sofia: At the beginnings of experimental physics teaching		Plenary Talk (HEL 160): Maerker, Anna: Models and role models: learning about natural and social order through artificial bodies		Muravska, Svitlana: The New Melody of Ancient Sounds: What Secrets the Old Machine Lab Hides?	
11:30 – 12:00				Muravska, Svitlana: The New Melody of Ancient Sounds: What Secrets the Old Machine Lab Hides?		Angelini, Emma The Origins of Politecnico di Torino: The Scuola di Applicazione per Ingegneri and the Regio Museo Industriale Italiano	
12:00 – 12:30						L. Jeanson: not only new instruments for teaching	
12:30 – 14:00	lunch break		lunch break		closing session (HEL 160) & lunch break		
14:00 – 14:30	<p style="text-align: center;">Conference Opening and Opening Presentation (HEL 160):</p> <p style="text-align: center;">Paolo Brenni: Changing perspectives: History of scientific artefacts and teaching instruments</p>	E. Bertozzi: Talkative lost objects from Laura Bassi's cabinet	L. Ugbugdian: OoU in the Educational Sector: Nigerian Experience	Gouveia, António: Angola in a Box: A Collection of Glass Slides for the Teaching	R. Evans: Problem solving: hand- and homemade objects		
14:30 – 15:00		S. Fischer: The Pictet cabinet: instruments at service of demonstr.	Wittje, Roland: Robert Pohl: German teaching instruments and practices in India	Holly, Marc: Collections of the Royal School for Weaving, Dyeing and Finishing	T. McCloughlin: Physiological Botanical Instructional Artefacts		
15:00 – 15:30		C. Herrmann: The Historical Physical Cabinet in Goerlitz	C. Silva: School collections of scientific instruments in Brazil	Zaum, Jörg The object tableau as a didactic form of knowledge representation	E. Cavicchi: Physical Manipulations: Teach Students to Think		
15:30 – 16:00	coffee break		coffee break		coffee break		
16:00 – 16:30	M. Teixeira: Uncovering scientific practices through a collection	D. Munns: Teaching Reactors in the golden age of nuclear power	A. Lykknes: Crookes Model of the PSE	J. Besouw: between hydrostatics and dynamics	D. Correia: The Kaleidoscope: the tale of a child's toy	S. Newell: Interplay between Research and Teaching	

16:30 – 17:00	M. Mayoni: Teaching Natural History in Argentina in the 19 th c	B. Hof: the first nuclear reactor for training	Charwat, Elaine: Model tweaks, or, arguing with the object: late 19th- and early 20th-century in-house customisation and use of models at the Oxford University Museum of Natural History (OUMNH)	Present, Pieter: Van Musschenbroek's teachings on projectile motion		J. Tapdrup: The Wise Swan: Education or Entertainment?	Doria, Corinne: Training the modern physician: The introduction of the ophthalmoscope in medical education (1850-early 20th century)	
17:00 – 17:30	P. Heering: Categorising teaching devices in physics education	Díaz, Lúbia: "The Subcritical Set. A Nuclear Reactor devoted to Cuban Physicists and Nuclear Engineers' training and education	Mueller, Joosten: A Perspective on Educational Cell Models between History of Science and Artistic Research	H. Kostur: The Water Gauge Legacy		A. Schirmacher: Revolution in Objects of Understanding	M. Gajek: A Drawing as a teaching aid in biology	
19:00 – 21:30						Poster Session @ Phänomena Science Center (with finger food and drinks)		