

Time	Monday, 18 <sup>th</sup> July	Tuesday, 19 <sup>th</sup> July	Wednesday, 20 <sup>th</sup> July	Thursday, 21 <sup>st</sup> July	Friday 22 <sup>nd</sup> July
9:00 – 9:30	<p><b>Optional: Guided City Tour (11:00h)</b></p> <p><b>Registration conference office (HEL 066)</b></p> <p>lunch break</p>	P. Heering: Categorizing Teaching Devices in Physics University Education	<p>Excursion to Hauch's Physiske Cabinet in Sorø (bus transfer)</p> <p>departure in Flensburg from the venue 08:00hrs</p> <p>arrival in Sorø 11:00hrs</p> <p>return to Flensburg 16:00hrs (arrival at the venue 19:00hrs)</p>	P. Lazos: Demonstrating Standing Waves. The Case of the Argyropoulos Apparatus	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 1920s		F. Khantine-Langlois: Instruments Used in France for Teaching Free Fall from the XIX <sup>th</sup> Century Up to Now	E. Angelini et al.: Objects of Understanding of the Scuola di Applicazione per Ingegneri at Politecnico di Torino: The Curioni Collection
10:00 – 10:30		W. Engels: Einstein's Simple Proof of Ampere's Molecular Currents		J. van Besouw: Early-Eighteenth-Century Instruments Between Hydrostatics and Hydrodynamics	L. Jeanson et al.: A New Building and (not only) New Instruments for Teaching Astronomy at the University of Strasbourg
10:30 – 11:00		coffee break		coffee break	coffee break
11:00 – 11:30		<b>Plenary (HEL 160)</b>		M. Gajek: A Drawing by Stanisław Wyspiański, "Komórka w podwojeniu" ("A Doubling Cell"), as a Teaching Aid for the Students of Biology at the Jagiellonian University in Krakow	<b>Plenary (HEL 160)</b>
11:30 – 12:00		<b>Sofia Talas: At the Beginnings of Experimental Physics Teaching</b>		C. Dahlke: Teaching Syphilis in the 20th Century: The Object Collection at the Dermatology of Rostock	<b>W. McComas: History, Objects, and the Nature of Science (HEL 160)</b>
12:00 – 12:30				K. Halverson: Instructing Instruments: Swedish and Danish Medical Journals and Ophthalmoscopes, Rhinoscopes and Laryngoscopes, 1855 – 1870	
12:30 – 14:00	lunch break	lunch break	lunch break	lunch break	
14:00 – 14:30	<b>Conference Opening and Plenary (HEL 160)</b>	R. Evans: Problem Solving: Hand- and Home-made Objects in the Science Museum's English School Science Teaching Collections, 1944-1988	T. van der Spek: The Birth of the Earth: 19 <sup>th</sup> c. Theory, Visualisation and Perception		
14:30 – 15:00	<b>Jochen Lange: Designing Objects of Understanding. The Practice of Manufacturing School Artifacts in the Educational Tool Industry of the 21st Century</b>	S. Fischer: The Pictet Cabinet: Instruments at Service of Demonstration	J. Notebaard and D. Da Rocha Goncalves: Projecting Knowledge: The Role of the Lantern Slide in Academic and Public Lectures in the Netherlands 1900-1940		
15:00 – 15:30		E. Cavicchi: Physical Manipulations- Teach Students to Think and Open to Doing Research	J. Zaun and K. Vincenz: The Object Tableau as a Didactic Form of Knowledge Representation		
15:30 – 16:00	coffee break	coffee break	coffee break	coffee break	

<b>16:00 – 16:30</b>	D. Munns: The Half-Life of the Graduate Student: Teaching Reactors in the Golden Age of Nuclear Power	A. Lykknes: The Crookes Model of the Periodic System – Lessons Learnt from Building and Interacting with the Model		H. & M Kostur: The Water-Gauge Legacy of the Middle Ages	
<b>16:30 – 17:00</b>	B. Hof: How the Training Reactor “Argonaut” Conquered the World	E. Charwat: Model Tweaks, or, Arguing with the Object: Late 19 <sup>th</sup> and Early 20 <sup>th</sup> Century In-House Customisation and Use of Models at the Oxford University Museum of Natural History (OUMNH)		E. Bertozzi: “Around the Globe in Five Maps”: Historical and Educational Perspectives on the Cartographic Collection of the University of Bologna	
<b>17:00 – 17:30</b>	R. Wittje: Robert Pohl in Madras: German Teaching Instruments and Practices in India	J. Mueller: A Perspective on Educational Cell Models Between History of Science and Artistic Research		A. Schirmacher: From Awe to Experience, from Artefacts to Edufacts? On the Postwar Revolution in the Objects of Understanding	
<b>19:00 – 21:30</b>			<b>Get together @ Phänomena Science Center</b> (with finger food and drinks)		