

Monday, September 19th	
17.00 - 18.00	Opening Reception
18.00 - 20.00	Guided Tours: a) Special exhibition: 'Optica' – A Reconstruction of the Optical Room in the Kunsthau of Langrave Karl b) The Marble Bath: A Baroque Architectural Jewel
Tuesday, September 20th	
Gartensaal	Entrance Hall, Orangerie
9.00 - 9.30	Opening Remarks
9.30 - 11.00	Session I: Magic Lanterns – History, Early Modern Practice, and Reconstruction
	<i>Staubermann, Klaus</i> : Understanding Early 18th-Century Magic Lantern Practice
	<i>Engels, Wolfgang</i> : On the Replication of a Magic Lantern
	<i>Schirmeier, Bjoern</i> : The Magic Lanterns in the Collection of the Cabinet of Astronomy and Physics in Kassel: The Device, the Pictures, and a Sort of Public Presentation
11.00 - 11.30	Coffee Break
11.30 - 13.00	Session IIa: Early Modern Optics
	<i>Strano, Giorgio</i> : Galileo, Reliable Observer: Astronomical Accuracy and the Optical Limits of the Telescope
	<i>Willach, Rolf</i> : A Recently Found Telescope by the Augsburg Optician Johannes Wiesel
	<i>Dijksterhuis, Fokko Jan</i> : The Burning Glasses of Tschirnhaus in the Republic of Letters, Artifacts, and Savants
	Session IIb: Back to the Roots – Stories of Instrumental Origins
	<i>Brundtland, Terje</i> : Air Pumps: Then and Now
	<i>Morrison-Low, Alison</i> : The Origins of the Stereoscope
	<i>Paparon, Flora</i> : The Baroscope: Associating the Teaching Device with Historical Texts, Experiments, and Stories
13.00 - 14.00	Lunch
14.00 - 16.30	Session IIIa: Curatorial Quandries – Reflections on Museum Practice
	<i>Huisman, Jan Waling</i> : Instruments, the Documentation of a Nobel Prize, and Dan Brown ...
	<i>Johnston, Stephen</i> : High-concept Curatorship: History and Fiction in an Instrument Exhibition
	<i>Schechner, Sara</i> : Tigers, Teapots, Telegraphs – Thoreau's Turtle – and a Hundred-year-old Tortilla: Scientific Instruments in the World of Tangible Things
	<i>Slijkhuys, Olaf</i> : From the Oldest Museum in the Netherlands to the Most Modern Museum on the Web? A Glance into the Digitization of the 'Ovalen Zaal' of the Teylers Museum and Its Scientific Instrument Collection
	<i>Zauszig, Oliver</i> : Introduction of a Database for Material Models in University Collections
	Session IIIb: Teaching with Instruments
	<i>Granato, Marcus; de Oliveira, Maria Alice Ciocca</i> : Instruments, Documents, and Images in the Trajectory of the Collection of Observatório do Valongo (Brazil)
	<i>Hakim, Lina</i> : Scientific Playthings: The Afterlives of Scientific Instruments
	<i>Suay-Matallana, Ignacio</i> : Study and Digitalization of Secondary-school Science Collections in Spain: Castellón and Alicante
	<i>Phillipson, Tacye</i> : The Small Computer that Played Tunes
16.30 - 17.00	Coffee Break
17.00 - (open end)	Optional Tours: a) Guided tour through the museum b) Guided tour through the special exhibition 'Optica'

Wednesday, September 21st		
Gartensaal	Entrance Hall, Orangerie	
9.00 - 11.00	<p>Session IVa: The Long Arc of Mathematical Instruments</p> <p><i>Ackermann, Silke</i>: Ottoman Science in the 19th Century – An astrolabe-quadrant (re)contextualized</p> <p><i>Devoy, Louise</i>: A Pictorial Puzzle: The Variation of Constellation Pictures on Gunter Quadrants</p> <p><i>Sarma, Sreeramula Rajeswara</i>: The <i>Dhruvabhrama-yantra</i> of Padmanābha and Its Extant Specimens</p> <p><i>Gessner, Samuel</i>: Images and Texts Featuring the Quadratum Geometricum in Lisbon, 1580-1640</p>	<p>Session IVb: The Big League – Precision Astronomical Instruments in the 19th Century</p> <p><i>Brenni, Paolo</i>: Staunend stand ich nun vor dem herrlichen Kunstwerke... The Fraunhofer Refractor of Tartu: Its History and Its Recent Restoration</p> <p><i>Caplan, James</i>: Instruments for Measuring Astronomical Photographic Images</p> <p><i>Le Guet Tully, Françoise</i>: Tracking the History of a Lost Instrument: The Nice Observatory Meridian Circle</p> <p><i>Oestmann, Günther</i>: Thirteen Years after Sorø: On the Completion of a Biography of Johann Heinrich Kessels, Maker of Chronometers and Precision Pendulum Clocks</p>
11.00 - 11.30	Coffee Break	
11.30 - 13.00	<p>Session Va: Making Science Public in 18th Century Europe – the Role of Cabinets of Experimental Philosophy</p> <p><i>Bennett, Jim</i>: The Lost Cabinet of Experimental Philosophy of the University of Oxford</p> <p><i>Talas, Sofía</i>: New Light on the Cabinet of Physics of Padua</p> <p><i>Cocquyt, Tiemen</i>: Failure, Fraud, and Instrument Cabinets: Concealed Histories in 18th-century Leiden Experimental Philosophy</p>	<p>Session Vb: Instruments on Land and at Sea</p> <p><i>Jakobsen, Ivan Tafteberg</i>: Tobias Mayer's 'Astrolabium' and the Arabian Expedition of 1761-67</p> <p><i>Achbari, Azadeh</i>: Dutch Overseas Riches</p>
13.00 - 14.00	Lunch	
14.00 - 16.30	<p>Session VIa: Making Science Public in 18th Century Europe – the Role of Cabinets of Experimental Philosophy</p> <p><i>Weiss, Martin</i>: 'Monuments of Science': How Teylers Museum's Instrument Collection Became Historical</p> <p><i>Hooijmaijers, Hans</i>: Willem Jacob 's Gravesande: The Man, His Cabinet of Physics, and His Book</p> <p><i>Felismino, David; Lourenço, Marta C.</i>: Between Teaching and Collecting: The Cabinet of Physics of Princes José and João of Portugal (1778-1794)</p> <p><i>Söderlund, Inga Elmqvist</i>: Demonstration Instruments at Riddarhuset (Stockholm) in the 18th Century</p> <p><i>Gaulke, Karsten</i>: Courtly Sciences: Teaching and Research in the Kunsthhaus of the Hessian Landgraves</p>	<p>Session VIb: The British Board of Longitude: New Perspectives on Instruments, Innovation and Creativity in the Georgian Era</p> <p><i>Baker, Alexi</i>: Basic Tools, Brilliant Curiosities, and Black Boxes: Technology and the Search for the Longitude at Sea</p> <p><i>Barrett, Katy</i>: Longitude Inscrib'd: Solving the Longitude Problem through Instrument, Text, and Image</p> <p><i>Dunn, Richard</i>: From Mayer's Circle to Maskelyne's Flaps</p> <p><i>Waring, Sophie</i>: The Nautical Almanac: An Instrument of Controversy, 1818-1830</p> <p style="text-align: center;">time for discussion</p>
16.30 - 17.00	Coffee Break	
17.00 - 19.00	<p>Session VIIa: Making Science Public in 18th Century Europe – the Role of Cabinets of Experimental Philosophy</p> <p><i>Zuidervaart, Huib J.</i>: The Emergence of Institutional Cabinets for Experimental Philosophy in the Netherlands during the Long 18th Century</p> <p><i>Wyka, Ewa</i>: Experimental Natural Philosophy Collections in the 18th Century in Poland</p> <p style="text-align: center;">time for discussion</p>	<p>Session VIIb: Specialized Research Instruments</p> <p><i>Loude, Jean-François</i>: Heinrich Wild's Polaristrobometer: An Early Form of Chemical Polarimeter</p> <p><i>Carbon, Roland; Cromphout, Sien; Jonckheere, Alexander; Segers, Danny; Wautier, Kristel</i>: Melloni's Bench: reconstruction and comparison with modern techniques</p> <p><i>Zoller, Paul</i>: Nineteenth-century One-of-a-Kind Scientific Instruments: Joule, Rowland, and the Mechanical Equivalent of Heat</p> <p><i>Yamaguchi, Mari</i>: Transforming a Tool: Mueller's Ball Model for the Field Ion Micrograph</p>

19.00 - 19.30	<i>Snack</i>
19.30 - 20.30	Optional Tours: a) Planetarium show: 'Stella Nova: On the Search of Your Beginning' b) Hands-on session with instruments of the collection

Thursday, September 22nd

9.00 - 11.00	Visit to the Murhard Library a) Presentation of astronomical manuscripts of the 16th century b) Guided tour through the special exhibition 'Alchemy at the Kassel Court' These are parallel events. Participants will be divided into groups and will have the possibility to see both.
11.00 - 12.00	Lunch Break
12.00 - 13.00	Bus transfer to Göttingen
13.15 - 14.00	Guided tour through the historic city center of Göttingen
14.00 - 14.30	Bus transfer to: a) Geophysical Institute OR b) Institute of Physics and Astrophysics
14.30 - 15.45	Guided tour through: a) the seismographic research center (Wiechertsche Erdbebenwarte) OR b) the collection of historic scientific instruments in the Institute of Physics and Astrophysics
16.00 - 17.00	Joint Coffee Break at the Institute of Physics and Astrophysics (Bus transfer for Group b) with the possibility for an unguided visit to instruments in the Institute)
17.00	Bus transfer back to Kassel
19.30	Conference Dinner 'Over the Rooftops of Kassel'

Friday, September 23rd

9.00 - 11.30	Bus transfer to Frankfurt	
	Group 1	Group 2
11.30 - 13.00	Visit to the Papers of Ernst Zinner at the Frankfurt University Archive Transfer to the store room of the Historical Museum of Frankfurt	Visit to the collection of scientific instruments in the store room of the Historical Museum of Frankfurt
13.00 - 14.00	Lunch Break	
14.00 - 16.00	Visit to the collection of scientific instruments of the Historical Museum of Frankfurt Bus transfer to the Römer	Transfer to the Museum of Communication and guided tour through the exhibition of early telegraphs and telephones The Römer can easily be reached by foot.
16.00 - 18.00	Free time. The Römer is in the historic city center of Frankfurt in close proximity to a number of museums.	
18.00 - 20.30	Dinner in a typical Hessian restaurant	
20.30 - 22.30	Bus transfer back to Kassel	

Saturday, September 24th

9.30 - 10.00	Bus transfer to the Hercules Monument on top of the Bergpark
10.00 - 12.45	Scenic view from the Hercules platform and a behind-the-scenes tour of the water works
13.00	Farewell