

XXIII Scientific Instrument Symposium

Dresden, Germany, September 6 – September 11, 2004

Mathematisch-Physikalischer Salon
 Dresden State Art Collections
 Zwinger
 01067 Dresden, Germany
 Tel. +49 (0)351 4914-661
 Fax +49 (0)351 4914-666
 E-Mail info@sis2004-dresden.de
 Internet: www.sis2004-dresden.de

Conference Agency
 INTERCOM Konferenzservice TU Dresden GmbH
 Ms. Alexandra Werner
 Ms. Sylvia Neumann
 Zellescher Weg 3
 D-01069 Dresden, Germany
 Tel.: +49 (0)351 463 33014
 Fax: +49 (0)351 463 37049
 E-Mail: sneumann@intercom-dresden.de

Preliminary Program (26.8.2004)

Sessions are being held in the auditorium and foyer of the conference center of the **Stadtparkasse am Altmarkt**, Dr.-Külz-Ring 17 (Tuesday and Thursday), and in Room F1 and the cinema of the **Technische Sammlungen Dresden**, Junghansstr. 1-3 (Wednesday).

Day 1

Monday, September 6

Mathematisch-Physikalischer Salon	16:00-22:00	Private Viewing for the Symposium Participants
	16:00-20:00	Registration
	18:00-22:00	Welcoming Reception

Day 2

Tuesday, September 7

Stadtparkasse am Altmarkt	Foyer 8:30-9:00	Registration
	Auditorium 9:00-9:30	Opening Remarks
		Martin Roth, General Director of the Dresden State Art Collections
		Paolo Brenni, President of the Scientific Instrument Commission
		Peter Plaßmeyer, Director of the Mathematisch-Physikalischer Salon

		Michael Korey, Mathematisch-Physikalischer Salon
SESSION 1		Hans-Moritz von Brühl: An Intermediary Between England and Saxony
	9:30-9:50	Anita McConnell: Hans-Moritz von Brühl, a London Virtuoso and Patron
	9:55-10:15	Magda Vargha: <i>Mappa Generalis Regni Hungarica</i> and von Brühl's Part in the Provision of Timekeepers and Instruments
Coffee Break	10:20-10:40	
SESSION 2		Enlightened Instruments
	10:45-11:05	Jim Bennett: Instrument Makers in Court: The Old Bailey Proceedings from the 18 th Century
	11:10-11:30	Alison Morrison-Low/A. D. C. Simpson: Fair Exchange: New Weights and Measures in Scotland
	11:35-11:55	Sylvia Holló: The Astronomical Tower in Eger
	12:00-12:20	Steven Turner: Interaction Between England and France Following the Defeat of Napoleon
Lunch	12:30-13:30	
SESSION 3		The Transit of Venus
	13:30-13:50	Sara Schechner: Politics, Instruments, and the Dimensions of the Solar System: John Winthrop's Observations of the Transit of Venus in 1761 and 1769
	13:55-14:15	Stephen Johnston: An Experiment in Replication
	14:20-14:40	Gudrun Wolfschmidt: Instruments for the German Transit of Venus Expeditions in the 19 th Century
Coffee Break	14:45-15:05	
SESSION 4		Acoustics on the Threshold Between Scientific and Musical Instruments
	15:10-15:30	Roland Wittje: Instruments of Science and Music from the 18 th to the 20 th Century
	15:35-15:55	Peter Donhauser: Two Research Projects at the Vienna Museum of Technology: A Link between Technology and Musical Instruments
Deutsches Hygiene- Museum	17:00-19:00	Reception and Tour

Day 3
Wednesday, September 8

Technische Sammlungen	Room F1	Opening Remarks
	8:45-9:00	Helmut Lindner, Director of the Technische Sammlungen
SESSION 5A	Room F1	Optics
	9:00-9:20	Alberto Meschiari: National Edition of the Works and Correspondence of G. B. Amici
	9:25-9:45	Jozef Uyttenhove: The “Van Heurck” Collection of Historical Microscopes: A Unique Collection from a Very Special Scholar
	9:50-10:10	Marian Fournier: The Delft Electron Microscope
Coffee Break	10:15-10:30	
SESSION 6A	Room F1	New Directions with Collections: Catalogues, Acquisition Strategies, and Databases
	10:30-10:50	Silke Ackermann: Maths and Memory – The Secrets of Calendar Medals
	10:55-11:15	Amparo Sebastián: Four New Globes Made by J. Blaeu, G. Adams, and J. Senex in the Museo Nacional de Ciencia y Tecnología
	11:20-11:40	Jane Insley: The Getting of GLORIA – Acquiring a Piece of Geophysical and Oceanographic History by the New Science Museum Method
	11:45-12:05	Cornelia Weber: The International Committee for University Museums & Collections (UMAC) and Its Worldwide Database
Lunch	12:10-13:10	
POSTER SESSION	Room F1 13:10-14:20	
SESSION 7A	Room F1	Of Large Coils and Little Machines
	14:20-14:40	Roberto Mantovani: Using Virtual Reality for Instruments: Mascart’s Electrometer
	14:45-15:05	Elizabeth Cavicchi: Looking at Medical Induction Coils: Diversity in Instrumental Experience and Understandings
	15:10-15:30	Ad Maas: Einstein’s “Little Machine”
Coffee Break	15:35-15:55	

SESSION 8A	Room F1	A Survey of Surveying and Astronomical Instruments
	15:55-16:15	Giorgio Strano: Pre-Telescopic Astronomy Beyond the Eye-Resolution Limit: History, Characteristics and Potentialities of Tycho Brahe's Sights
	16:20-16:40	Wolfram Dolz: The Waywisers of Elector August of Saxony and Their New Use in the Survey of Saxon Postal Roads
	16:45-17:05	Suzanne Débarbat: Angle Measurement with the Borda Repeating Circle
	17:10-17:30	Willem Mörzer Bruyns: Octants from the Frisian Island of Föhr 1760-1780
Mathematisch-Physikalischer Salon	18:30	Group Photo. We will ride together to the Salon on the tram.
Dresden Palace	19:00-20:00	Private Viewing of the Neues Grünes Gewölbe (New Green Vault)
PARALLEL SESSIONS AFTER THE OPENING REMARKS		
SESSION 5B	Cinema	Sleeping Beauties Roused: Object-Oriented Research at the Deutsches Museum
	9:00-9:20	Peter Heering: Between Education, Entertainment and Research: 18 th -Century Projections with Solar Microscopes
	9:25-9:45	Ulf Hashagen: The <i>Gauss</i> Calculating Machine: Masterpiece or Failed Innovation?
	9:50-10:10	Christian Sichau: An Experimental Record of Precision or 'Big Science' in the 1920s: Georg Joos' Measurement of the Ether Drift
Coffee Break	10:15-10:30	
SESSION 6B	Cinema	Telescopes
	10:30-10:50	Yaakov Zik: Kepler and the Telescope
	10:55-11:15	Rolf Willach: The Use of Marbled Paper on Scientific Instruments in the 17 th Century
	11:20-11:40	Peter Abrahams: The Telescope in Japan 1600-1900
	11:45-12:05	Randy Liebermann: George W. Ritchey – A Visionary's Quest for Perfect Seeing
Lunch	12:10-13:10	
	13:10-14:20	Tour of the Technische Sammlungen

SESSION 7B	Cinema	Instruments of Chemistry
	14:20-14:40	Trienke Van der Spek: Sparks and Airs: Pneumatic Chemistry in the Last Quarter of the 18 th Century
	14:45-15:05	Sara Carvalho: The History of the Separation Funnel Seen Through Experimental Works in Chemistry in the 19 th and 20 th Centuries
	15:10-15:30	Rob Lukens: Chemistry's Revolutionary Tools: Collecting and Interpreting 20 th -Century Chemical Instrumentation
Coffee Break	15:35-15:55	
SESSION 8B	Cinema	Instruments in Unexpected Places
	15:55-16:15	Zuyuan Wang: Revealing the Mystery of the "Waterspouting" Fish Basin: A Demonstration from Ancient Chinese Bronze Ware
	16:20-16:40	Robert Hicks: Celestial Globes in Alchemical Paintings
	16:45-17:05	Klaus Staubermann: Appropriating the Past – The Reworking of Lohse's Astro-Camera
	17:10-17:30	Jahnvi Phalkey: Meghnad Saha and the Calcutta Cyclotron

Day 4
Thursday, September 9

Stadtparkasse am Altmarkt		
SESSION 9	Auditorium	Central European Instruments of the 16th – 18th Centuries
	9:00-9:20	Peter Plaßmeyer: Christoph Schißler: The Elector's Dealer
	9:25-9:45	Karsten Gaulke: "The First European Observatory of the 16 th Century Founded by Landgrave Wilhlem IV of Hessen-Kassel": A Serious Historiographic Category or a Misleading Marketing Device?
	9:50-10:10	Sven Hauschke: The Scientific Instruments of the Nuremberg Goldsmith Wenzel Jamnitzer (1508-1585)
	10:15-10:35	Klaus Schillinger: Some Lesser-Known Dresden Instrument Makers of the 17 th Century
Coffee Break	10:40-10:55	

	11:00-11:20	Anthony Turner: 'Not to Hurt of Trade': The Guilds and Innovation in Horology and Precision Instrument-Making
	11:25-11:45	Uta Lindgren: Astronomical Precursors of 16 th -Century Geodetic Instruments
	11:50-12:10	Gloria Clifton: The Central European Instruments in the Collections of the National Maritime Museum and Royal Observatory Greenwich: A Study in the History of Collecting
	12:15-12:35	Ewa Wyka: Scientific Instruments and the Legacy of Johannes Broscius (1585-1652), Professor of the Cracow Academy
Lunch	12:40-13:40	
SESSION 10A	Aditorium	Scientific Instruments in <i>Kunstammer</i> and Court Collections
	13:45-14:05	Filippo Camerota: The Medici Collection of Mathematical Instruments
	14:10-14:30	Sven Dupré/Michael Korey: Tracking Optical Objects in the Dresden <i>Kunstammer</i> 1560-1640
	14:35-14:55	Koenraad Van Cleempoel: The Collection of Scientific Instruments at the Escorial of Philip II
	15:00-15:20	Tatiana Moisseva: <i>Scientifica</i> in the Petersburg <i>Kunstkamera</i> : Instruments for the Introduction of New Knowledge into Russia
	15:25-15:45	Horst Bredekamp: Commentary
Coffee Break	15.50-16.00	
SESSION 12A	Auditorium	Between Collecting and Trade
	16:05-16:25	Mara Miniati: The Collecting Taste. Italian Case Studies from the 19 th and 20 th Centuries
	16:30-16:50	Paolo Brenni: Not Just Cuckoo Clocks and Chocolate. The Swiss Precision Industry between 1780 and 1930
	17:00-18:00	Plenum of the Scientific Instrument Commission
Elbe River Quay	18:30-23:00	Conference Dinner aboard the <i>Stadt Wehlen</i>

PARALLEL SESSIONS AFTER LUNCH		
SESSION 10B	Foyer	Seismographs
	13:45-14:05	Julien Fréchet: The History of Seismography in France
	14:10-14:30	Josep Batlló: Study and Restoration of the Old Seismographs of the Fabra Observatory in Barcelona
SESSION 11	Foyer	Time, Space, and the Weather
	14:35-14:55	Vladimir Schurov: A. S. Popov's Storm Indicator: Invention, Curiosity, or Lost Priority in the Development of Radio
	15:00-15:20	James Caplan: The 'Time Service' of the Marseille Observatory
	15:25-15:45	Ernst-Reinhold Mewes: Mathematical Analysis of Astrolabic Dials from Medieval Monumental Clocks
Coffee Break	15.50-16.00	
SESSION 12B	Foyer	The <i>Sphaera Copernicana</i> of Schleswig-Holstein-Gottorf
	16:05-16:25	Søren Andersen: Examination and Restoration of the <i>Sphaera Copernicana</i>
	16:30-16:50	Anne-Marie Christensen: Reconstruction of the Missing Constellations

Day 5

Friday, September 10

Departure from the hotels.

Excursion I	8:00-20:00	Freiberg/Waldenburg (Dolz)
Excursion II	9:00-18:00	Bautzen/Görlitz (Plaßmeyer)
Excursion III	8:00-20:00	Jena/Halle (Korey)

Day 6

Saturday, September 11

We plan to arrange tours of several Dresden museums in the morning.