

XXXVII Scientific Instrument Symposium 2018



Monday

3 September

Rijksmuseum Boerhaave

17.00-19.00

Registration

Entrance

17.00-19.00

Opening Reception

Bar

17.00-19.00

Tours in the Museum

Start at the entrance of the museum
Every 15 minutes

XXXVII Scientific Instrument Symposium 2018



Tuesday 4 September Rijksmuseum Boerhaave

Einstein room

9.00 **Amito Haarhuis** Welcome

INSTRUMENT-MAKING

chair **Paolo Brenni**

9.30	Huib Zuidervaart	The Emergence Of The Profession Of 'Philosophical Instrument Maker' In The 17th-Century Dutch Republic
9.50	Sibylle Gluch	Precision Timepieces For Astronomy: Patterns Of Collaboration Between Astronomers And Clockmakers In The 19th Century
10.10	Marvin Bolt, Tiemen Cocquyt, Michael Korey, Huib Zuidervaart	Blown, Ground, Flame-Worked, Or Dropped? Re-Examining Leeuwenhoek's Microscope Lenses
10.30	Joshua Scarlett	Fall Of Aristotle Or Rise Of Archimedes? – How Did Optical Instrument Makers In London Present Objects And Their Workshops To Buyers?

10.50-11.10 Break

TRAVELLING INSTRUMENTS AND IDEAS

chair **Richard Dunn**

11.10	Isabel Malaquias	Tracking Mathematical Instruments For Overseas Iberian Territories In Late Eighteenth Century
11.30	Wolfram Dolz	High-Tech Instruments For Determining The Shape Of The Earth: The Example Of The European Meridian Arc Measurement And Triangulation In The Kingdom Of Saxony From 1862-1890
11.50	Convin Splettsen	How Ideas Travelled Around 1800 – Exemplified By Atwood Machines
12.10u	Feliks Gornischeff	Instruments Of Baltic German Explorers In The First Half Of 19th Century

12.20-13.30 Lunch

Tuesday 4 September Rijksmuseum Boerhaave

Boerhaave room

9.00 Welcome

WATER I

chair **Alison Morrison Low**

9.30	Jip van Besouw	'S Gravesande On Force, Torricelli's Principle, And Rivers
9.50	Taco Walstra	Early Digital Computer Usage In Amsterdam For The Dutch Delta-Commission
10.10	Michel Morizet	Versailles, The Water, The Savants And The Levelling In 17th-Century France
10.30	Bjoern Schirmeier	By The Power Of Steam Or Magic – Steam Engines And Perpetual Motion Machines At The Court Of Kassel

10.50-11.10 Break

WATER II

chair **Huib Zuidervaart**

11.10	Malgorzata Taborska	Treatise By Olbrycht Strumienski (1573) – First Polish Book On Hydroengineering
11.30	Joerg Zaun	Hubert Engels And The Hydraulic Laboratory At The Technical University Of Dresden
11.50	Richard Kremer	'Pure' Drinking Water In Antebellum Boston? Instruments, Lead Pipes And Public Health
12.10	Tacye Phillipson	The Movement Of Frozen Water

12.20-13.30 Lunch

Pitches		FAILED INSTRUMENTS
		chair Sebastian Soubiran
13.30	Richard Dunn	A Valuable Archive Of Failed Inventions: The Museum Of The Admiralty Compass Observatory
13.40	Jan Hogendijk	Astrolabe Workshops In Pakistan
13.50	Tacye Phillipson	Not All Bad: Rehabilitating Phrenology In Museums
14.00	Sofia Talas	A Failure, An Icon, Or Beyond?
14.10	wrap up	

14.30-14.45 Break

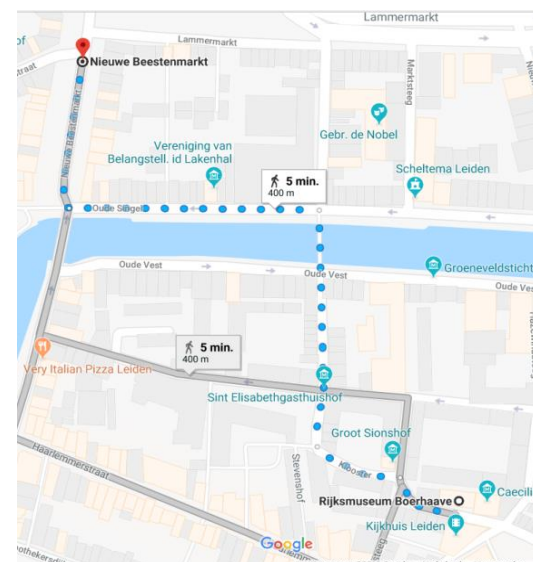
14.45 GATHERING AT THE ENTRANCE BOERHAAVE AND WALK TO BUS

15.00 BUS FROM LEIDEN, NIEUWE BEESTENMARKT TO THE HAGUE, LOUWMAN MUSEUM
In the Louwman Museum we will not only visit one of the world's best car collections, but also one of the most impressive collections of telescopes

15.30 INTRODUCTION TO TELESCOPE COLLECTION BY PETER LOUWMAN

all groups		lecture theatre
GROUP VISITS LOUWMAN MUSEUM		
16.00	A	telescope gallery
	B	hands on room
	C,D,E	car museum
16.30	C	telescope gallery
	D	hands on room
	A,B,E	car museum
17.00	E	telescope gallery
	A	hands on room
	B,C,D	car museum
17.30	B	telescope gallery
	E	hands on room
	A,C,D	car museum
18.00	D	telescope gallery
	C	hands on room
	A,B,E	car museum
18.30	BUS RETURN FROM THE HAGUE, LOUWMAN MUSEUM TO LEIDEN, NIEUWE BEESTENMARKT	

END OF THE SIC?	
chair Roland Wittje	
13.30	Sam Alberti The Immaterial Turn?
13.40	Alison Boyle Material heritage on the map: one field, or many?
13.50	Klaus Staubermann End Of The SIC?
14.00	wrap up



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Wednesday 5 September

Teylers Museum

7.45 BUS FROM LEIDEN, NIEUWE BEESTENMARKT TO HAARLEM, TEYLERS MUSEUM

Lecture room

9.00

Marjan Scharloo	Welcome
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SOUND

chair: **Sara Schechner**

9.20	Anne Houssay, David Pantalony	Cross-Fertilisation Between Musical And Scientific Instrument Makers in 19th-Century Paris
9.40	Jasmin Janka	Sound Figure Experiments – A Closer Look At Their Development Over A Period Of 80 Years
10.00	Panagiotis Pouloupoulos	Engineering The Harp: The Erard London Firm 1800-1830
10.20	Katharina Preller	Hermann Von Helmholtz's Instruments Of Acoustics Research
10.40	Martina Schiavon	Sound Detection Instruments During The First World War (France And Italy)

11.00-11.20 Break

ELECTRICITY I

chair **Marv Bolt**

11.20	Wolfgang Engels	The Reconstruction And Rebuilding Of Van Marum's "Ongemeen Groote Electrizeer-Machine" And Some Experimental Results
11.40	Rupert Cole	Making Heritage: The Journey Of A Nairne Electrical Machine
12.00	Kadri Tinn	Arrival And Use Of Electrical Instruments In The Tartu Old Observatory
12.20	Lea Leppik	Horizontal Voltaic Pile And The Chemical Theory Of Galvanic Elements

Wednesday 5 September

Teylers Museum

Old Library

CITIZEN SCIENCE I

chair **Louise Devoy**

9.20	Jane Desborough	Public Science Lectures In A City Without A University: London C.1690-1720
9.40	Jan Huisman	To Demonstrate Nature's How And Why, To Pleasure And Good Use, Is What We Aim For And Always Try
10.00	Jane Wess	Instrumental Culture At The Royal Geographical Society, London 1830-1850
10.20	Matthew Howles	Staging A Demonstration: The Natural Philosophy Lecture Re-Imagined At London's Science Museum
10.40	Stéphane Fischer	Marc-Auguste Pictet' Cabinet Or The Rise Of Experimental Physics In Geneva At The End Of The 18th Century

11.00-11.20 Break

CITIZEN SCIENCE II

chair **Alison Boyle**

11.20	Bernd Scholze	Talk Of The Town - A Case Study Of The Public Experimentalist Peter Joseph Reuter In Braunschweig
11.40	Alison Morrison-Low	The Mechanics' Institutes Of Great Britain: The Pioneering Example Of The Society For The Encouragement Of The Useful Arts In Scotland
12.00	John Reid	Patrick Copland's Apparatus: "Generally Considered As Superior To Any In Britain"
12.20	Ewa Wyka	Public Science In 18th-Century Poland

12.40-13.30 Lunch

ELECTRICITY II

chair

Hans Hooijmaijers

13.30	Jan Hicks	All Electric Housing: The Use Of Model Homes To Introduce Electricity Into The Domestic Setting In Early 20th Century Britain
13.50	Bernard Pigelet, Dominique Bernard	Reconstitution Of The Historical Experience Of Measuring. The Radioactivity By Pierre And Marie Curie (1898). Presentation, Realization, Electrical Measurements And Future Developments
14.10	Roland Wittje	The Electrification Of Sound Measurement During World War I
14.30	Elizabeth Cavicchi	Heightening Electricity In Analogy To Lightning-Instruments, Investigation, Sensation

14.50 Break

15.10 TOURS TEYLERS MUSEUM

18.00-19.00 DRINKS AND BITES

19.15 BUS RETURN FROM HAARLEM, TEYLERS MUSEUM TO LEIDEN, NIEUWE BEESTENMARKT

12.40-13.30 Lunch

MUSEOGRAPHIC ISSUES

chair

Stephen Johnston

13.30	Pedro Raposo	Framing The Device: Photography And Scientific Instruments
13.50	Miguel Teixeira	Recent Scientific Heritage: Reflections On Documenting And Displaying A He-Ne Laser
14.10	Alexi Baker	Integrating Historical Technologies Into A University Natural History Museum
14.30	Wibke Kolbmann	On The Way To A New Collection Of Scientific Instruments At ETH Zurich

14.50 Break

15.10 TOURS TEYLERS MUSEUM

18.00-19.00 DRINKS AND BITES

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Thursday 6 September Rijksmuseum Boerhaave

Einstein room

DIFFERENT POINTS OF VIEW ON INSTRUMENTS

chair **Tacye Phillipson**

9.00	Pierre Lauginie	Errors, False Mistakes, Misinterpretations: Do They Make Sense?
9.20	Anna Simon-Stickley	The Birth Of 3 Dimensional Microscopy - Conception And Development Between Institutional Boundaries
9.40	Christian Forstner	Research Technologies And User Driven Innovation
10.00	Sreeramula Rajeswara Sarma	Ashadhar, The Tibetan Priest's Time-Stick: A Comedy Of Errors In Nomenclature

10.30-11.00 Break

CONTROL OF MAN OVER NATURE

chair **Liba Taub**

11.00	Alexandra Rose	Seismographs On Show
11.20	Martin Weiss	Built For Breaking – The Polar Research Vessel Polarstern

12.00-13.00 Lunch

Thursday 6 September Rijksmuseum Boerhaave

Boerhaave room

A CELEBRATION OF THE LIFE AND WORK OF INGA ELMQVIST SÖDERLUND
I OBSERVATORIES AS MUSEUMS

chair **Silke Ackermann**

9.00	Silke Ackermann	Intro
9.10	Karl Grandin	Taking possession of the History of Astronomy
	Olov Amelin	Taking possession of the History of Astronomy
	Michael Lindberg	Taking possession of the History of Astronomy
10.00	James Caplan	A Threatened Astronomical Instrument Collection

10.30-11.00 Break

II ICONOGRAPHY AND EARLY MODERN INSTRUMENTS

chair **Olov Amelin**

11.00	Sara Schechner	Paper Dolls & Wonder Women of Astronomy
11.20	Michael Korey	Bringing the Heavens to Earth: Princes, Planets, and Prognostication

12.00-13.00 Lunch

ISLAMIC and MEDIEVAL INSTRUMENTS

chair **Richard Kremer**

13.00	Taha Yasin Arslan	Marrākushī's Globe And Its Impact On The Globe-Making Tradition In The Islamic World
13.20	Rob van Gent	The Isfahan Qibla Finder: Its Use In The Teaching Of The History Of Islamic Science
13.40	Samuel Gessner, Janin Rogers	Medieval Compilation Culture And Early Western Astrolabes: Questioning ‚Chaucerian‘ Astrolabes
14.00	Mubashir Ul-Haq Abbasi	An Embodiment Of Cultural Synthesis : The Astrolabe Designed By Lālah Bulhomal Lāhorī And Created By Ustād Pīr Bakhsh Lāhorī

14.20-14.45 Break

14.45-18.00 EXCURSIONS LEIDEN
There will be a carrousel of venues: Boerhaave stores, University Library and more

15.00-18.00 GROUP VISITS LEIDEN
Every group has its own guide

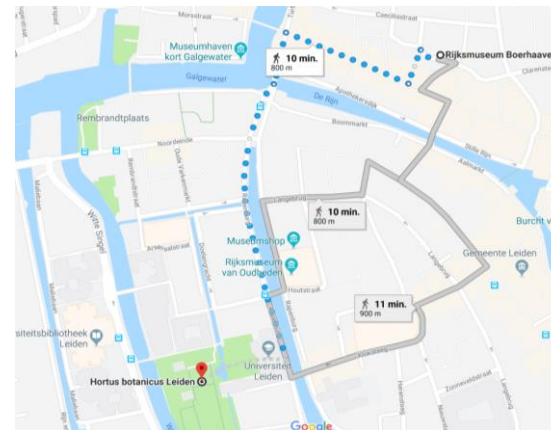
19.30-22.30 CONFERENCE DINNER
The conference dinner will be held in the almost 450 year old botanical garden
Between the main course and dessert there will be time to visit the Leiden Observatory and the monumental greenhouses

III KNOWLEDGE NETWORKS, OBSERVATORIES AND POPULARISATION

chair **Karl Grandin**

13.00	Françoise Le Guet / Jean Davoigneau	The Development of Knowledge Networks Between France and Sweden at the Time of the Foundation of the Uppsala and Stockholm Observatories
13.20	Janet Laidla	The Astronomical Observatory as a Scientific Instrument
13.40	Louise Devoy	Cooperative Neighbours: Using Nearby Venues to Facilitate Observations at the Royal Observatory, Greenwich
14.00	George Vlahakis	Making Astronomy Attractive for the Public: Stephen A. Ionides, Author of One Day Telleth Another, Sundial Maker and Dreamer

14.20-14.45 Break



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Friday 7 September Rijksmuseum Boerhaave

Einstein room

NEW LIGHT ON COLLECTIONS AND OBJECTS

chair **Trienke van de Spek**

9.00	Paolo Brenni, Marco Beretta	Work In Progress: The Catalogue Of Antoine Lavoisier's Instruments. A New Light On A Unique Collection
9.20	Emma Angelini, Andrea Gori	The Jacquard Loom : An Unexpected Scientific Instrument In The Arte Della Lana Museum Of Stia (Italy)
9.50	Gaye Danişan Polat Delivered by Taha Yasin Arslan	The Cylinder Dials In Ottoman Turkey: The 'Asâ-Yı Musa (The Staff Of Moses)
10.10	Falk Riess, Karsten Gaulke	The Musschenbroek Air Pump Of Landgrave Carl, Kassel

10.30 Break

11.00 BUSINESS MEETING

Friday 7 September Rijksmuseum Boerhaave

Boerhaave room

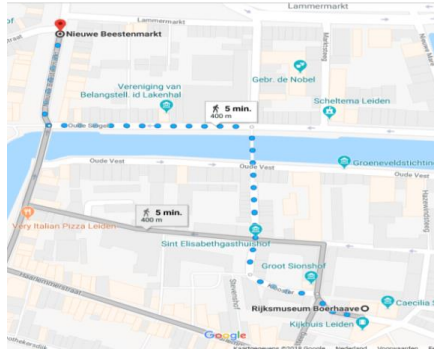
MATHEMATICS AND AROUND

chair **Michael Korey**

9.00	Stephen Johnston	Digitising The Connoisseurial Eye
9.20	Giorgio Strano	Athanasius Kircher's Organum Mathematicum: A Compendium For Combinatory Practical Knowledge
9.50	Peggy Aldrich Kidwell	Mathematical Instruments Get Personal – Tools, Inventions, And Toys
10.10	Anne Por	To command the mind?: Building and buying material mathematical models

10.30-11.00 Break

13.00



POSTER SESSION + LUNCH

chair	Janet Laidla
Beto Pimentel	A Survey Of Sundials In Rio De Janeiro
Michael Trapasso	The Campbell-Stokes Sunshine Duration Recorder
Federica Napolitani, Maria Falcone, Rosalia Ferrara	The Collection Of Historical Scientific Instruments At The Italian National Institute Of Health: Between Science And Art
Ricardo Barbosa, Stéphane Fischer	Diving In The Archives Of The Astronomical Society Of Geneva
Maria Jardim	Art And Science In The Printing Of Maps And Architectural Drawings In Blueprinting And Related Processes Of Photo Reproduction.
Elena Corradini	The Museum Of Physics As Agents Of Development For The University Museums Of Modena
Naila Abbasi	Journey Of Medical Instruments From Harappa To Gandhara
Lazos Panagiotis, Tsimpidas Dimitrios	Looking At The Skies For 175 Years. The 162 Mm Plössl Refractor Of National Observatory Of Athens.
Carlos Cardoso, Décio Martins, Francisco Gil	Inventory And Classification Of Nineteenth-Century Of Photometers Of The Nineteenth Century: A Study Of Scientific Instruments

- 14.30 BUS FROM LEIDEN,NIEUWE BEESTENMARKT TO OUD ZUYLEN
- 16.00 GROUP VISITS TO ZUYLENBURGH COLLECTION AND CASTLE MUSEUM ZUYLEN
Dutch private collection of Scientific Instruments, the Zuylen Castle and hands on sessions
- 16.00 A Zuylenburgh collection
B Hands on
C + D Castle Museum
- 16.30 B Zuylenburgh collection
A Hands on
C + D Castle Museum
- 17.00 C Zuylenburgh collection
D Hands on
A + B Castle Museum
- 17.30 C Zuylenburgh collection
D Hands on
A + B Castle Museum
- 18:00 Drinks and bites Hands on location
- 19:30 Return to Leiden

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Saturday 8 September Rijksmuseum Boerhaave

EXCURSION

9.00	Bus from Leiden to Cruquius
9.30	Visit Cruquius
10.30	Bus leaves to Franeker via Afsluitdijk
12.00	Arrival Franeker
12.30	Lunch Franeker
13.30	Visit Eise Eisinga
14.30	Visit Martena Museum
15.30	Visit town hall
16.30	Return to Leiden
18.30	Leiden