

SIC2026 PROGRAMME

	Mon 7 Sept Musée international d'Horlogerie (MIH), Rue des Musées 29, 2300 La Chaux-de-Fonds
14.00 – 15.00	Registration
15.00 – 15.30	Welcome, conference opening and official remarks
15.30 – 16.00	Introduction to the multi-site exhibition "From Stars to Atoms... the Observatoire cantonal de Neuchâtel".
16.15 – 17.30	Free visit to the Musée international d'horlogerie (MIH) and its temporary exhibition, "Déterminer l'heure"
17.30	Welcome reception with dinner buffet

	Tue 8 Sept Université de Neuchâtel, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1, 2000 Neuchâtel		Wed 9 Sept Haute Ecole Arc, Campus Arc 1, Espace de l'Europe 21, 2000 Neuchâtel		Thu 10 Sept Université de Neuchâtel, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1, 2000 Neuchâtel		Fri 11 Sept Université de Neuchâtel, Main Building, Avenue du 1^{er} Mars 26, 2000 Neuchâtel		
	<i>Aula des Jeunes-Rives</i>	<i>Room - R.O.14</i>	<i>Auditorium 1</i>	<i>Auditorium 2</i>	<i>Aula des Jeunes-Rives</i>	<i>Room - R.O.14</i>	<i>Room C45</i>	<i>Room C47</i>	<i>Room C52</i>
9.00 – 10.30	Session A-1	Session B-1	Session G-1	Session H-1	Session M-1	Session N-1	Session O-1	Session P-1	Session Q
Coffee break									
11.00-12.30	Session A-2	Session B-2	Session G-2	Session H-2	Session M-2	Session N-2	Session O-2	Session P-2	Session R
Lunch			Lunch & HE-ARC visit		Lunch				
14.00-15.30	Session C	Session D	Session I	Session J	SIC Annual Meeting		Session O-3	Session S	Session T
Coffee break					Poster Session		Coffee break		
16.00-17.30	Session E	Session F	Session K (roundtable)	Session L			Session U	Session V	
	17.45 Visit to MAHN		17.45 Visits to the HE-ARC or Neuchâtel observatory		17.00 Visit to Le Locle Museum		18.00 Gala dinner at hôtel du Peyrou		

TITLE OF THE SESSIONS

- A. Challenges in Museology, Displaying, Collections
- B. Astronomy and Observatories
- C. Computers
- D. Alchemy, Astrology, and Beyond : Occult Sciences and Their Instrumentation
- E. Time Determination in the Observatories
- F. From Many Laboratories to One Second : The Development of Atomic Clocks
- G. Conservation of Multimaterial Scientific Instruments : Challenges Across Scientific and Technical Heritage
- H. Material Instruments and Historical Contexts Engage Students of Today and Yesteryear
- I. Mathematical Instruments and Medieval Libraries: Manuscript Practices and Material Circulation
- J. Instruments on the Move : Expeditions, Campaigns, Revolutions
- K. Elisa Proton Accelerator : A Trajectory from the Laboratory to Public Display
- L. Lubricants in the Scientific-Technical Heritage : Preserve, Remove or Replace ?
- M. Astrolabes and Sundials
- N. Early Optical and Physics Instruments
- O. Circulation & Networks : Scholars, Traders, Collectors, Archives & Databases
- P. 19th and 20th-Century Instruments
- Q. Trade, Craftsmanship, and Society
- R. Early Industrial Technology
- S. Reactivated and Reused Instruments
- T. Calculating Machines in Observatories
- U. Centers and Peripheries
- V. Medicine, Natural Sciences, and Archaeology

A. Challenges in Museology, Displaying, Collections

Section A.1 - Tue 8 September / 9.00-10.30 / Aula des Jeunes-Rives, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1

Chair: Janet Laidla

- **Heather Bennett** – *Instruments of change: how museum collections tell the story of environmental change*
- **Anne-Sophie Jean Rozay** – *When Big Science Becomes Heritage: The Case of INDRA at GANIL*
- **Luena Ricardo & Nicola Bird** – *Creating opportunity through absence: Co-curating African Astronomy at the History of Science Museum*
- **Juan-Andres Leon** – *Laser Development in the United Kingdom: Museological Opportunities and Challenges*

Section A.2 Tue 8 September / 11.00-12.30 / Aula des Jeunes-Rives, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1.

Chair: Rebekah Higgitt

- **Dominique Bernard & Julie Priser** – *Which scientific instruments should be chosen to present a university collection from the first half of the 20th century?*
- **Kristin Halverson** – *More Than Books: The National Library of Sweden's Collection of Globes*

B. Astronomy and Observatories

Section B.1 Tue 8 September / 9.00-10.30 / Room - R.0.14, Faculté des lettres et sciences humaines Espace Tilo-Frey 1.

Chair: Gloria Clifton

- **Michael Korey** – *Publishing for an Audience of One: The First Measurements of the Fixed Stars under Landgrave Wilhelm IV of Hesse*
- **Ileana Chinnici & Salvatore Speziale** – *From London to Sicily: the 18th-century equipment of the Palermo Observatory*
- **Florian Mathieu** – *Coupoles, observatoires et instruments dans Paris : centres et périphéries des pratiques astronomiques urbaines (1850-1950)*

Section B.2 Tue 8 September / 11.00-12.30 / Room - R.O.14, Faculté des lettres et sciences humaines Espace Tilo-Frey 1.

Chair: Ileana Chinnici

- **Johan Kärnfelt** – *On the Introduction of Spectroscopy at the Stockholm Observatory*
- **Vitaliy Kim** – *Carte du Ciel Astrographs at the Pulkovo and Tashkent Observatories: History and Current Status*
- **Lea Leppik** – *Rise and fall of the Tartu/ Dorpat observatory*
- **Kaarel Nõmmela & Janet Laidla** – *Continuing decline or new beginnings – Tartu Observatory at the turn of the 19th and 20th century*

C. Computers

Tue 8 September / 14.00-15.30 / Aula des Jeunes-Rives, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1

Chair: Louise Devoy

- **Pierre Mounier-Kuhn** – *Invention et industrialisation des machines à calculer au XIXe siècle : Ateliers et marchés, capitales et périphéries*
- **Caroline Collange & Julie Priser** – *"The JuraSTIC Project: Bringing 'Computosaurs' Back to Life"*
- **Martin Weiss** – *Software and the history of scientific instruments: What we can learn from the robot LAURON*

D. Alchemy, Astrology, and Beyond : Occult Sciences and Their Instrumentation

Tue 8 September / 14.00-15.30 / Room - R.O.14, Faculté des lettres et sciences humaines Espace Tilo-Frey 1.

Chair: Trienke van der Spek

- **Godefroid de Callataÿ** – *The place of the occult sciences and of scientific instruments in the overall organization of the sciences*
- **Josefina Rodriguez-Arribas** – *The Material Tools of Prognostication: Instruments, Tables, Diagrams*
- **Matteo Martelli** – *Distilling Sulphur or Distilling the Cosmos?*
- **Laura Tribuzio** – *From Display to Experience: Reordering Occult Knowledge through Mobile Objects*

E. Time Determination in the Observatories

Tue 8 September / 16.00-17.30 / Aula des Jeunes-Rives, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1

Chair: Martina Schiavon

- **Karsten Gaulke** – *Ordering the Heavens: Mechanical Clocks as Metrological Instruments at the Kassel Observatory (1560–1590)*
- **João Henrique Ribeiro Barbosa & Claudia Penha** – *Five Morse telegraph devices in MAST: uses and history*
- **Amandine Cabrio** – *L'automatisation de la certification à l'Observatoire cantonal de Neuchâtel. Le chronographe, de la détermination de l'heure au contrôle des chronomètres*

F. From Many Laboratories to One Second: The Development of Atomic Clocks

Tue 8 September / 16.00-17.30 / Room - R.0.14, Faculté des lettres et sciences humaines Espace Tilo-Frey 1.

Chair: Sara J. Schechner

- **Christoph Affolderbach, Ion-Gabriel Mihailescu & Gaetano Mileti** – *The Atomic Clocks Development Landscape in the 1950-1960s*
- **Gaetano Mileti, Christoph Affolderbach & Ion-Gabriel Mihailescu** – *Redefining the Second, or Choosing the Right Clock*
- **Gianenrico Bernasconi** – *The Neuchâtel atomic clock at the 1958 Brussels World's Fair*
- **Ion-Gabriel Mihailescu** – *The Atomic Clock Atlas: A Digital Inventory and Exhibition Platform for Material History*

G. Conservation of Multimaterial Scientific Instruments: Challenges Across Scientific and Technical Heritage

Section G.1- Wed 9 September / 9.00-10.30 / Auditorium 1, Haute Ecole Arc, Campus Arc 1, Espace de l'Europe 21.

Chair: Emma Angelini

- **Anna Giatti** – *Approaches to teaching the restoration of multi material objects*
- **David Pantalony**, Erin Secord, Rebecca Dolgoy, Lindsay Sisson & Morley Oudekirk – *Embracing complexity: The benefits of approaching recent scientific instruments through a conservation lens.*
- **Tiziana Macaluso** – *The rediscovered restoration. Matthäus Greuter's 1636 celestial globe between study, valorization and unfinished conservation history.*

Section G.2 - Wed 9 September / 11.00-12.30 / Auditorium 1, Haute Ecole Arc, Campus Arc 1, Espace de l'Europe 21.

Chair: David Pantalony

- **Emma Angelini**, Margherita Bongiovanni & Sabrina Grassini – *From Analysis to Intervention: Diagnostic Strategies for Multimaterial Scientific Instruments*
- **Luca Rocca** & **Valentina Domenici** – *Communicating Scientific Heritage: Educational Practices and Conservation Challenges*
- **Maria Rosalia Carotenuto**, Randa Deraz, Ida Kraševc, Giuseppe Cavallaro & Matija Strlič – *An Evaluation Protocol for Sorbent Materials in Museum Enclosures: Bridging Laboratory Research and Conservation Practice*

H. Material Instruments and Historical Contexts engage Students of Today and YesterYear

Section H.1 - Wed 9 September / 9.00-10.30 / Auditorium 2, Haute Ecole Arc, Campus Arc 1, Espace de l'Europe 21.

Chair: Elizabeth Cavicchi

- **Flora Paparou** & **Vasiliki Lianou**– *Reviving Scientific Heritage: Hands-On Reconstruction of Historical Instruments and Anatomical Practices*
- **Helen Pooley** – *Meaningful consultations and partnerships: making historical scientific objects accessible to disabled children and adults*
- **Panagiotis (Takis) Lazos**, Constantina Stefanidou, Vasiliki Psoma & Constantine Skordoulis – *INSIGHT: Learning Science through Historical Instrument Reconstruction*

Section H.2 - Wed 9 September / 11.00-12.30 / Auditorium 2, Haute Ecole Arc, Campus Arc 1, Espace de l'Europe 21.

Chair: *Flora Paparou*

- **Chris Parkin** – *Microscopes and Materials: Transforming Materia Medica*
- **Elizabeth Cavicchi** – *Students Apprehend the “Stuff of Life” by rendering its Spatial features nearer to their own Scale*
- **Rebekah Higgitt** – *Meteorological Instruments and Nature Study at the Royal Scottish Museum, 1901-1914*
- **George Vlahakis & Takis Lazos** – *Material Culture and Science Education: The Physics Instruments of the Averofio Gymnasium-Lyceum of Alexandria (1870-1970)*

I. Mathematical Instruments and Medieval Libraries: Manuscript Practices and Material Circulation

Wed 9 September / 14.00-15.30 / Auditorium 1, Haute Ecole Arc, Campus Arc 1, Espace de l'Europe 21.

Chair: *Michael Korey*

- **Laure Miolo** – *Astronomical instruments in medieval libraries in France and England*
- **Parisa Kharazmi** – *The Rusty Compass: Circulating Mathematical Practice in the Works of Abu al-Wafa and Albrecht Dürer*
- **Samuel Gessner** – *Shelved Equatoria: Theorice nouvelle, Volvelles, and University Book Culture in the 15th Century*
- **Stephen Johnston** – *Medieval Instruments as Manuscripts: a Case Study from Merton College, Oxford*

J. Instruments on the Move: Expeditions, Campaigns, Revolutions

Wed 9 September / 14.00-15.30 / Auditorium 2, Haute Ecole Arc, Campus Arc 1, Espace de l'Europe 21.

Chair: *Richard L. Kremer*

- **Florian Schnee** – *Alexander von Humboldt and his Instruments on the Move – Travelling and Measuring*
- **Martina Schiavon & Céline Fellag-Ariouet** – *The Simplon 1905: a multidisciplinary measurement campaign, global impact, and a turning point for geodesy*
- **Feliks Gornischeff** – *Correspondence between Adam Johann von Krusenstern and Johann Caspar Horner, c. 1807–1834*
- **Artemis Yagou** – *Innovation and Liberty: Scientific Instruments in the Greek Revolution (1821–1830)*

K. ELISA Proton Accelerator: A Trajectory from the Laboratory to Public Display

Wed 9 September / 16.00-17.30 / Auditorium 1, Haute Ecole Arc, Campus Arc 1, Espace de l'Europe 21.

Chair: Corinne Pralavorio

Roundtable: Corinne Pralavorio, Emily Webb, Annabella Zamora et Berare Gokturk.

L. Lubricants in the Scientific-Technical Heritage

Wed 9 September / 16.00-17.30 / Auditorium 2, Haute Ecole Arc, Campus Arc 1, Espace de l'Europe 21.

Chair: Chiara Croci

- Arianna Passaretti, Alexandra Lefebvre, Laura Brambilla, Isabel Tissot & Anna Igual-Muñoz – *DRYLU: Testing solid lubricants*
- Louis Grua, Romain Jeanneret, Antonin Tarchini & Maria Teresa Molina Delgado – *Study and selection of suitable lubricants*
- Maria Teresa Molina Delgado, Anna Igual-Muñoz & Laura Brambilla – *Lubricants in the Scientific-Technical Heritage: preserve, remove or replace?*
- Francis Brodie – *Fretting Corrosion in Operating Clockwork Mechanisms*

M. Astrolabes and Sundials

Section M.1 - Thu 10 September / 9.00-10.30 / Aula des Jeunes-Rives, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1

Chair: Giorgio Strano

- **Afra Akyol** – *Pushing the Boundaries of Latitude Plates: The Universal Potential of Planispheric Astrolabes*
- **Eugenio Bertozzi** – *On a cartouche about the Catholic Astrolabe by Gemma Frisius: between cartography and scientific Instruments*
- **Hamid Bohloul & Richard L. Kremer** – *Without Sand or Water: Al-Ṣafadī's Account of Ibn al-Shāṭir's Astrolabe-Clock*
- **Luis Iturriaga** – *NMM6: Mariner's Astrolabes, Nautical Manuals, and Imperial Science in the Early Modern Iberian World*

Section M.2 - Thu 10 September / 11.00-12.30 / Aula des Jeunes-Rives, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1

Chair: Stephen Johnston

- **Giorgio Strano** – *From All-over the (Old) World to Florence: For a Catalogue of the Planispheric Astrolabes of the Museo Galileo*
- **Taha Yasin Arslan** – *Less is More: A 14th-Century Attempt at Universalizing the Astrolabe*
- **Beyza Topçuoğlu** – *When a Sundial Travels: Adapting a 13th-Century Cairo Cylindrical Sundial for Istanbul*
- **Ava Spurr** – *Ivory, Brass, Magnets, and Ink: Materials and Labour in the Making of Renaissance Diptych Sundials*

N. Early Optical and Physics Instruments

Section N.1 Thu 10 September / 9.00-10.30 / Room - R.0.14, Faculté des lettres et sciences humaines Espace Tilo-Frey 1.

Chair: Andreas Junk

- **Sena Aydin** – *Al-Fārisī's Tanqīḥ al-Manāẓir as a Treatise on Experimental Optics*
- **Tiemen Cocquyt** – *Material aspects of early telescope innovation*
- **Bernd Scholze** – *Athanasius Kircher and His Iconographically Incorrect Depiction of a Magic Lantern: The Secret Revealed?*
- **Peter Heering & Trienke van der Spek** – *Seeing images – working with the lucernal microscope of George Adams' jun.*

Section N.2 - Thu 10 September / 11.00-12.30 / Room - R.O.14, Faculté des lettres et sciences humaines Espace Tilo-Frey 1.

Chair: Samuel Gessner

- **Andreas Junk** – *How many perspectives are necessary to understand the development of stereoscopic devices?*
- **Sofia Talas & Fanny Marcon** – *Hero's fountain: metamorphoses of an instrument*
- **Robert Nardone** – *La microcinématographie, toute une histoire*

SIC ANNUAL MEETING - Thu 10 September /14.00-15.15

Aula des Jeunes-Rives, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1

Followed at 15.15: *Forty Years of Scientific Instrument Studies*, Book Presentation

Poster session – Thu 10 September / 15.30-16.30 / Aula des Jeunes-Rives, Faculté des lettres et sciences humaines, Espace Tilo-Frey 1

Chair: Tacye Phillipson

1. **Malgorzata Taborska** – Scientific instruments in a new perspective: globes from Polish collections - not only a teaching aid
2. **Pierre Bordet & Elisabeth Secrettand**– Between Measuring Instrument and Decorative Object: The Metrological Enigma of a 17th-Century Snakewood Rule
3. **Arthur Harvey & Craig Bowers** – Keeping Time in the Wild West: The History of Time at the Perth Observatory in Western Australia
4. **Christel Schollaardt & Trienke van der Spek**– Science & Technology Thesaurus

O. Circulation & Networks: Scholars, Traders, Collectors, Archives & Databases

Chair: Silke Ackermann

Section O.1 - Fri 11 September / 09.00-10.30 / Room C45, Main Building, Avenue du 1er Mars 26

- **Anthony Turner** – *Rescuing and using the archives of twentieth century clockmakers and historians of horology*
- **David Coffeen** – *Sources and sinks, thieves and fakers – a dealer's perspective*
- **Joshua Nall** – *The Lloyd Evan Williams Forgeries: Connoisseurship on Trial*
- **Meredith Nichter & Joshua Gorman** – *Provenance and Ethical Stewardship within Harvard's Collection of Historical Scientific Instruments*

Section O.2 - Fri 11 September / 11.00-12.30 / Room C45, Main Building, Avenue du 1er Mars 26

Chair: Ron Hellfritzs

- **Nina Kubowitsch** – *Scientific Instruments between East and West: The trade in technical cultural assets in the GDR in the 1980s*
- **Nino Zubler** – *Watch collectors and networks since 1850: the case of early modern pocket watches*
- **Patrick Rocca & Ina Prinz** – *The Arithmaurel: history, restoration and research into the fastest calculating machine of the mid-19th century.*

Section O.3 - Fri 11 September / 14.00-15.30 / Room C45, Main Building, Avenue du 1er Mars 26

Chair: Anthony Turner

- **Sabina Luz** – *Instruments and methods in the suitcase: Liaisons and the printing chronograph between France and Brazil in late 19th century.*
- **Silke Ackermann, Charel Back & Viktor Kolaß** – *Travel logs and pencil notes: Tracing Object Circulation and Scholars' Networks before and after World War II in the Zinner Archive*
- **Sören Groß & Ron Hellfritzs** – *Scholars, Collectors, Dealers and Agents: The Circulation of Historical Sundials on the German art market until 1945*
- **Sumner Braund** – *Ottoman Art Dealers in Paris and Algiers at the turn of the 20th century: The role of diaspora networks in the circulation of historic scientific instruments*

P. 19th and 20th Century Instruments

Section P.1 - Fri 11 September /09.00-10.30 / Room C47, Main Building, Avenue du 1er Mars 26.

Chair: Dana Freiburger

- **Roland Wittje** – *The magnetometers at Oslo Observatory and the magnetic networks of Gauss and Hansteen*
- **Raphael Beuing** – *Between Paris, London and Southern German: a barometer-thermometer and a clock from Würzburg*
- **Luisa Lovisetti** – *The Handheld Wild–Hofmann Polaristrobometer: A Portable Optical Instrument*
- **Stéphane Fischer** – *The illusion of instruments "made in Geneva"*

Section P.2 - Fri 11 September /11.00-12.30 / Room C47, Main Building, Avenue du 1er Mars 26.

Chair: Stephane Fischer

- **María de Lourdes Ortega Méndez** – *Materializing Mathematical Abstraction: Mechanical Harmonic Analyzers (1890-1925)*
- **Julia Bloemer** – *Timing the Drop: Brownian Motion and Millikan's Oil-Drop Apparatus*
- **Delphine Issenmann** – *The different lives of the Cockcroft-Walton in Strasbourg*
- **Pierre Lauginie** – *Invariance de la direction d'oscillation d'un pendule de Foucault: points de vue historiques et modernes*

Q. Trade, Craftsmanship, and Society

Fri 11 September /09.00-10.30 / Room C52, Main Building, Avenue du 1er Mars 26.

Chair: Sofia Talas

- **Antoine Dabé** – *Les brevets de cosmographes : témoignages d'inventeurs situés*
- **Hande Vural & Aytekin Çökelez** – *Standardizing the Scale: Ottoman Kantars between Regulations and Craftsmanship*

R. Early Industrial Technology

Fri 11 September /11.00-12.30 / Room C52, Main Building, Avenue du 1er Mars 26.

Chair: Karl Grandin

- **Panagiotis Pouloupoulos** – *Made in England, Displayed in Bavaria: Investigating the history of a steam engine model attributed to Boulton & Watt in the Deutsches Museum, Munich*
- **Tuğçe Esenduran Konuk** – *Bridging Theory and Practice: A Historical Sketch of The First Practical Electric Motor*
- **Günther Oestmann** – *Manufacturing Chronometers in the “Third Reich” between 1933 and 1945*

S. Reactivated and Reused Instruments

Fri 11 September /14.00-15.30 / Room C47, Main Building, Avenue du 1er Mars 26.

Chair: Tiemen Cocquyt

- **Marisa Monteiro** – *Reaching for the stars: astronomy at school with the Bertaux planetarium*
- **Pedro Casaleiro, Alcina Cortez, Andrea Santini & Fabio Monteiro** – *Timekeeping through Sound: Augmented Reality and the Meridian Circle of Coimbra Observatory*
- **Natacha Fabbri** – *When Instruments Change Voice: The Speaking Trumpet Across Use, Display, and Contemporary Reactivation*
- **Wolfgang Engels** – *The Cobbler’s Ball and the Art of Illumination*

T. Calculating machines in observatories

Fri 11 September /14.00-15.30 / Room C52, Main Building, Avenue du 1er Mars 26

Chair: Johan Kärfelt

- **Louise Devoy** – *The adoption of calculating technologies at the Royal Observatory, Greenwich, 1915-1940*
- **Peggy Kidwell** – *Astronomers using calculating machines: examples from the United States*
- **Toner Stevenson, Nick Lomb & Andrew Jacob** – *Stellar innovation in calculation: The Sydney Southern Star Catalogue 1958-1983*
- **Yolanda Muñoz Rey & Teodoro López Moratalla** – *Ephemerides and calculating machines at the Royal Naval Observatory in San Fernando. Instrumentation and evolution of astronomical calculation (1753-1992)*

U. Centers and Peripheries

Fri 11 September / 16.00-17.00 / Room C45, Main Building, Avenue du 1er Mars 26

Chair: Gaetano Mileti

- **Dana Freiburger** – *The center is where you make it: The spectroscopic research of Japanese Physicist Hori Takeo*
- **Jane Desborough** – *The nineteenth-century inspector of weights and measures: conveyer of objects, ideas and power from centre to periphery*
- **Dorothea Zimmermann & Roberta Spano** – *From field to storage: Geobotanical instruments between periphery and center*

V. Medicine, Natural Sciences, and Archaeology

Fri 11 September / 16.00-16.45 / Room C47, Main Building, Avenue du 1er Mars 26.

Chair: Laura Brambilla

- **Elodie Granget, Megan Malherbe, Manule Merkofer & Sabina Carraro** – *Between Industry and Clinic: Negotiating Neurosurgical Instruments in Practice*
- **Tacye Phillipson** – *Lady Frances Steuart's medicine chest*