PROGRAMME

ORGANIZERS AND ACKNOWLEDGEMENTS

The event is organized under the auspices of the association Automates & Merveilles, lead of the project « Des étoiles aux atomes… L'Observatoire de Neuchâtel » which opened in June 2026, in collaboration with the Université de Neuchâtel (UniNe) and the Haute Ecole Arc Conservation-restauration (HE-Arc CR), as well as the Musée international d'horlogerie de La Chaux-de-Fonds, the European Organization for Nuclear Research (CERN), the Musée d'histoire des sciences de Genève (MHSG), the Ecole Polytechnique Fédérale de Lausanne (EPFL) and the Swiss Federal Institute of Technology Zurich (ETHZ).

The conference was organized and driven by Julien Gressot (AA&M and UniNe) and Romain Jeanneret (HE-Arc, AA&M and UniNe), with the support of a local organizing committee bringing together representatives from the various partner institutions, active in the fields of research, teaching, science communication and heritage conservation: Gianenrico Bernasconi (UniNe), Gaetano Mileti (UniNE), Régis Huguenin (MIH), Stéphane Fischer (MHSG), Corinne Pralavorio (CERN), Jérôme Baudry (EPFL), Dorothea Zimmermann & Roberta Spano (ETHZ).

SIC2026 could not have taken place without the financial support of the Fondation Watch Academy, the cities of La Chaux-de-Fonds and Neuchâtel, as well as the Académie suisse des sciences humaines et sociales and the Association pour l'histoire des sciences.

Warm thanks to Board members Ileana Chinnici, Taha Yasin Arslan & Rebekah Higgitt for their support and guidance.

A big thank you as well to our invaluable helpers, colleagues and students, for their inestimable contribution to the smooth running of the event: Alice Brunner, Chiara Croci, Julien Favre, Léa Fernandes Bingert, Stéphanie Dietze-Uldry, Louis Grua, Julie Hulmann, Camille Leisi, Sabine Luz, Teresa Molina, Judith Pin, Isabelle Rérat, Floriane Roy, Mathilde Sneiders, Qin Wu as well as the facilities teams of all institutions, along with anyone else who helped and was not named here

AUTOMATES & MERVEILLES

SIC2026

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 1er Mars 26, 2000 Neuchâtel		
	Aula des Jeunes-Rives	*Room - R.0.14*	*Auditorium 1*	*Auditorium 2*	*Aula des Jeunes-Rives*	*Room - R.0.14*	*Room C45*	*Room C47*	*Room C52*
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	Poster Session Book Presentation Group Pictures Coffee break		Session O-3	Session S	Session T
Coffee break					SIC Annual Meeting				
16.00-17.30	Session E	Session F	Session K (roundtable)	Session L					
	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 Peyrou Palace		

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 / Centers and Peripheries

R. Early Industrial Technology

S. Reactivated and Reused Instruments / Medicine and Natural Sciences

T. Calculating Machines in Observatories

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.0.14, 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 (Presented by Janet Laidla)– *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.0.14, Faculté des lettres et sciences humaines Espace Tilo-Frey 1.

Chair: Petra Schmidl & Silke Ackermann

- 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 Kraševec, 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

- Parisa Kharazmi – *The Rusty Compass: Circulating Mathematical Practice in the Works of Abu al-Wafa and Albrecht Dürer*
- Samuel Gessner – *Shelved Equatoria: Theorice novelle, 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** – *Athansius 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.0.14, 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*

Poster session – Thu 10 September / 14.00-14.45 / 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

SIC ANNUAL MEETING - Thu 10 September /15:30-16:45

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

Followed at 15.45: *Forty Years of Scientific Instrument Studies,* Book Presentation

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 Hellfritzsch

- **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.*
- **Sabina Luz** – *Instruments and methods in the suitcase: Liais and the printing chronograph between France and Brazil in late 19th century.*

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

Chair: Anthony Turner

- **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 Hellfritzsch**– *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*
- **Dorothea Zimmermann & Roberta Spano** – *From field to storage: Geobotanical instruments between periphery and center*

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: Laura Brambilla

- 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 Cockroft-Walton in Strasbourg*
- Jane Desborough – *The nineteenth-century inspector of weights and measures: conveyer of objects, ideas and power from centre to periphery*

Q. Trade, Craftsmanship, and Society / Centers and Peripheries

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*
- Dana Freiburger – *The center is where you make it: The spectroscopic research of Japanese Physicist Hori Takeo*

R. Early Industrial Technology

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

Chair: Karl Grandin

- Panagiotis Poulopoulos – *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 / Medicine and Natural Sciences

Fri 11 September /14.00-14.45 / 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*
- 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*

T. Calculating machines in observatories

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

Chair: Johan Kärnfelt

- 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 Jadorcob – *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)*