

**XXXI Baltic Conference on the History and Philosophy of Science  
Scientific Instruments in History and Philosophy of Science, Technology and  
Medicine  
13-15 June 2024 in Tartu, Estonia**

**Programme**

**13th June, Thursday**

09:15-09:45 Registration, University of Tartu (UT) Museum (*address Lossi 25*)

09:45-10:00 Welcome address

Plenary

10:00-11:30 Keynote 1

Gudrun Wolfschmidt "Cultural Heritage of Observatories and Instruments in the Baltic"

11:30-13:00 Keynote 2

James Ladyman "Scientific Empiricism: The Philosophical Significance of Instruments in the Chemical Revolution"

13:00-14:00 Lunch time (*please allow max 10 min to walk to another destination*)

14:00-15:30 Session 1

*(Sessions at Philosophicum, Jakobi 2. NB! Walking distance 300m / 6 minutes, from the Museum)*

Session 1A Room 336 Lea Leppik	Session 1B Room 306 Amirouche Moktefi
Maija Kallinen "The Struve Geodetic Arc as Cultural Heritage Sites in the North of Finland"	Raz Chen-Morris "The Telescope and the Reformation of Knowledge in the early 17th century"
Libertas Klimka, Linas Šmigelskas "On the Struve geodetic arc in Lithuania"	Filippo Iorillo "18th Century Scottish University Textbooks as Instruments to Understand Metaphysic" Institute of Philosophy, KU Leuven
Louis Le Douarin "The material and scientific web of the empire: geodetic markers as scientific and colonial political instruments"	
Liliya Kazantseva "The contribution of Kyiv scientists to the history of determining the coordinates of landmarks and the creation of a global geodetic network"	

15:30-16:00 Coffee break room 327

16:00-17:30 Session 2 (Philosophicum, *address Jakobi 2*)

Session 2A Room 336 Eveli Neemre	Session 2B Room 306 Peeter Mürsepp
Jason Scott Cordova “Walking the Endless Trail and the Stars of Decision: Exploring Native American Cultural Astronomy and Star Lore of the American Southwest”	<u>Panel “Formal Systems as Cognitive Tools in the History of Math and Science”</u>
Hannu Salmi “Revisiting All The Struve Arc Original Points in Finland 1886 and 2023”	Peeter Mürsepp “Leibniz and the Calculus Notation”
	Madeline Muntersbjorn “Cognitive Tools in the Algebra Project”
	Amirouche Moktefi & Kirsti Rumma “On scaffolding and mathematical representations”
	Susan Vineberg “Inductive Inference and Scientific Procedure”

19:00 Welcome reception in UT Observatory, (*address Uppsala 8*)

Greetings from Fraunhofer Gesellschaft, Fraunhofer Dorpat Refractor exhibition.

**14th June, Friday**

10:00-11:30 Session 3 (*Philosophicum, address Jakobi 2*)

Session 3A Room 336 Ken Ird	Session 3B Room 306 Erki Tammiksaar
Jane Desborough “Secrets Hiding Within Early Modern Scientific Instruments: A Study in Materiality”	Ilgonis Vilks “How the development of exact time measurement in the 20th century impacted the time service of the Astronomical Observatory of the University of Latvia and the citizens' ability to know the correct time”
Lea Leppik “Why Did It Take So Long To Measure Stellar Parallax?”	Halyna Doronina, Halyna Zvonkova “The main fields of research of the Southern Research Institute of Marine Fisheries and Oceanography (2nd half of the 20th century)”
Veronika Girininkaitė “Scientific instruments in the old Astronomy Observatory of Vilnius University”	Aurika Ričkienė, Ilona Jukonienė “From the history of peatland research in Lithuania”

11:30-12:00 Coffee break room 327

12:00-13:30 Session 4 (*Philosophicum, Jakobi 2*)

<p>Session 4A Room 336 Anu Rae</p> <p>Karoliina Jõgi “Mental Illness: Linguistic Analysis from Interwar Estonia”</p> <p>Emil Jakob Oras “The View of Medical Professionals on Transgender People in Interwar Estonia”</p> <p>Ignė Rasickaitė “The state of psychology in Soviet Lithuania, 1944-1969: an analysis of the political and ideological context”</p> <p>Anna Žabicka “Beyond surgery: the ideological underpinnings of the first FTM gender-affirming surgery in the USSR”</p>	<p>Session 4B Room 306 Peeter Mürsepp</p> <p>José Antonio Pérez-Escobar “Mathematical models as scientific instruments? When falsifiable models become analytic standards for measurement”</p> <p>Kevin Coffey “Symmetry and Interpretation in Newtonian Gravitation: The Importance of Interaction(s)”</p> <p>”</p>
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13:30-14:30 Lunch time

14:30-15:15

a) workshop UT Observatory (*address Uppsala 8, walking distance from lunch 7 min*)

b) guided tour in UT museum (*address Lossi 25, walking distance from lunch 6 min*)

15:30-17:00 Session 5 (*Philosophicum, address Jakobi 2, walking distance back 6-7 min*)

<p>Session 5A Room 336 Virge Lell</p> <p>Eglė Sakalauskaitė-Juodeikienė “Diagnosis and Treatment of Nervous System Diseases in Vilnius University Therapy, Surgery and Obstetrics Clinics at the beginning of the XIXth Century”</p> <p>Aistis Žalnora “The Memoirs as Primary Sources and Powerful Tool in Rediscovering History of Medicine”</p> <p>Ieva Lībiete “Hold Still, Latvians: The Ambitious Yet Unfulfilled Project of the Anthropometric Photocamera”</p> <p>Maija Pozemkovska “Melks’ Vacuum Excochleator”</p>	<p>Session 5B Room 306 Edit Talpsepp</p> <p>Juho Lindholm “Scientific Instruments and Dewey’s Instrumentalism”</p> <p>Endla Lõhkivi “From “Things Knowledge” to Practical Realism”</p>
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19:00 Gala Dinner in UT Museum White Hall, (*address Lossi 25*)

**15th June, Saturday** (the whole day: Philosophicum, address Jakobi 2)

10:00-11:30 Session 6

<p>Session 6A Room 336 Peeter Mürsepp</p> <p>Florian Schnee "Encounters, scientific Instruments and the <i>edition humboldt digital</i>: Alexander von Humboldt's visit to Tartu in 1829"</p> <p>Erki Tammiksaar "German and Soviet science policies and science in Estonia in the 1920s–1960s"</p> <p>Alida Zigmunde "The provision of models and instruments for the teaching process of the Riga Polytechnikum in the second half of the 19th century"</p>	<p>Session 6B Room 306 Ilona Piirimägi</p> <p>Oleh Koshovyi, Alla Kovaleva, Tetiana Ilina, Ain Raal "Scientific pharmacognostic school of the Pharmacognosy department, the National University of Pharmacy, Kharkiv, Ukraine"</p> <p>Yurii K. Vasyliev, Kostiantyn K. Vasyliev "The life and work of Professor-hygienist K.E. Dobrovolsky (1867-1946). On the history of the Tartu scientific school of G.V. Khlopin"</p> <p>Vira Gamaliia, Svitlana Ruda "Academician N. Gamaleya: the lecturing activity"</p>
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11:30-12:00 Coffee break room 327

12:00-13:30 Session 7

<p>Session 7A Room 336 Kaarel Nõmmela</p> <p>Roland Wittje "Scientific Instruments and the Neglect of Teaching in History of Science"</p> <p>Geir Ramstad Sletvold, Bjørn Vidar Johansen "Utilizing an Old Observatory as a Unique Teaching Arena: Leveraging Sensory Elements to turn Disadvantages into Advantages"</p> <p>Anne Vaalund, Anette Braathen, Ingrid Eikeland "Interacting with authentic objects to learn about the nature of science"</p>	<p>Session 7B Room 306 Tiiu Kreegipuu</p> <p>Alla Lytvynko "Gennzdy Dobrov's Activities in the Science and Technology History Studies in Ukraine (to the 95th Anniversary of the Birth)"</p> <p>Eugenija Rudnickaitė "The 220th anniversaries of the Department of Geology and Mineralogy and the Museum of Geology of Vilnius University: a brief overview of history"</p> <p>Mait Talts "Natural Science Circle of Nõmme Gymnasium in 1940s and early 1950s"</p>
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13:30-14:30 Lunch time

14:30-16:00 BAHPS General Assembly Meeting (Room 336)

Presentation of the book „Practical Realist Philosophy of Science. Reflecting on Rein Vihalemm's Ideas“ and the special issue of the journal Acta Baltica Historiae et Philosophiae Scientiarum also focusing on the legacy of Rein Vihalemm.

For academic matters please contact Ms. Anu Rae [anu.rae@ut.ee](mailto:anu.rae@ut.ee)

Conference web: <https://bahps.org/>