

**Wednesday 13:00-13:30 – Welcome and Introduction to the ESHS Brussels 2022 conference**

**Wednesday 13:30-15:00 – Plenary lectures**

**Neuenschwander Prize 2020 Lecture**

Kostas Gavroglu “The Sisyphean Fate of Historians of Science”

**Plenary lecture ESHS president-elect 2020**

Theodore Arabatzis “History of Science and its Interlocutors in the Humanities”

**Wednesday 15:30 – 18:00 – Plenary lectures**

**Early Career Lecture 1**

Gemma Cirac-Claveras “Data Stories: Satellites, History, and the Making of a Digital Climate”

**Early Career Lecture 2**

Sam Robinson “Ocean Science Diplomacy: The History of a Fluid Concept”

**Early Career Lecture 3**

Maria Luísa Sousa “From Transport to Mobility: Alternatives, Resistance, Justice, and the Mobilization of the History of Science and Technology”

**Wednesday 18:00- 20:00 Welcome reception**

**Thursday 09:00-10:30 – Plenary lectures**

**Neuenschwander Prize 2022 Lecture**

Simon Schaffer “Orientations and Disorientations in History of the Sciences”

**Plenary lecture ESHS president-elect 2022**

Dana Jalobeanu “The Fictional Politics of Scientific Collaboration: Solomon Houses in Early Modern Europe”

**Thursday 11:00-13:00 - Sessions**

**67 - Computing Politics in late 20th and early 21st century - 1**

Organisers: Arianna Borrelli & Liesbeth De Mol

Chair: Arianna Borrelli

No Limits? The entangled history of global dynamics ca. 1972

- Sebastian Randerath & Jacob Birken

Abstraction as power: The making of computer science in the age of high modernism (1950-1970)

- David Nofre

How to trust a blockchain-based cryptocurrency? Conceptual challenges of the politics of trust in blockchain systems

- Katja Stoppenbrink & Eva Pöll

**48 - History and Histories of Solvay Institutes. The Centennial of the first Chemistry Council and beyond.**

Organisers: Alessio Rocci & Yoanna Alexiou

Chair: Brigitte Van Tiggelen

Debates on the intersection between Chemistry and Physics at Solvay Councils

- Alessio Rocci

A Hundred Years of Solvay Councils on Chemistry (1922-2022): a unique and adaptive model of conference

- Yoanna Alexiou

Scientific and social developments in chemistry as mirrored by the Solvay Chemistry Councils, 1922-1937

- Ernst Homburg

The laborious foundation of Solvay's International Chemistry Institute

- Franklin Lambert

**3 - Genes, Ghosts, and Icons: Networks of (amateur) scientists and the conservation, collection, and circulation of animals in the turbulent 20th century**

Organiser: Simone Schleper

Chair: TBA

Animal-Catching and Cryptozoology: On Charles Cordier's economy of hidden animals

- Raf de Bont

Averting Extinction: The emergence of genetic management of small captive populations of wildlife and the case of the Przewalski's horse (*Equus Przewalskii*)

- Monica Vasile

The Ruddy Duck in Europe: A case of late 20th century invasive species control

- Vincent Bijman

Victims and Diplomats: White storks and images of expertise in postwar ornithology

- Simone Schleper

**49 - Communicating astral knowledge through tables, diagrams, instruments, and images (ca. 10th – 16th century)**

Organisers: Stefan Zieme & Anna Jerratsch

Chair: Matthieu Husson

An Astronomical Toolbox for a Theologian: John of Lignères's Work for Robert de Bardis

- Eleonora Andriani

On the transmission and translations of the *Almagest*: A network analysis

- Stefan Zieme

Diagrams for Visualizing Structure and Motion in Islamicate Astronomy: The Case of the Moon

- Scott Trigg

Visualizing cometary knowledge: Three cases from 1556

- Anna Jerratsch

**22 - Science policies and scientific collaboration - 1**

Organiser: Luca Guzzardi

Chair: Gerardo Ienna

Domain-specific explanatory norms and scientific collaboration

- Chiara Lisciandra

The rise of multi-messenger astrophysics between coordination and collaboration

- Luca Guzzardi

Growth and diversification of research topics: 30 years of Climate Change research

- Carlo De Bernardi

## **62 - From Akademgorodok to Science Park: The Political Economy of Research Spaces (1945-2000)**

Organisers: Jorrit Smit & Timofey Rakov

Chair: Cyrus Mody

The Land of Tomorrow: Exporting Scientific Siberia to the United States (1975)

- Ksenia Tatarchenko

Big Science in an age of valorisation: from distance to proximity through a virtual campus (1990 – 2020)

- Hein Brookhuis

Science Parks in the Polder. The Political Economy of Spaces for Knowledge Transfer in the Netherlands (1970-1990)

- Jorrit Smit

Forests of the Academy: connecting Nature and Urban in Soviet Science-Cities

- Mikhail Piskunov & Timofey Rakov

## **43 - Boundings and unboundings in the sciences: gender, experimentation, and authority - 1**

Session organisers: María Jesús Santesmases & Andrea Núñez Casal

The Science of the Letter: Microbiome Science, Proto-Immunology and Dispatches from Other Worlds

- Andrea Núñez Casal

Gendered diplomacy of the spaces of material practices of science: inclusion, collaboration, marginalization in France between two revolutions (1789-1848)

- Isabelle Lémonon

Sealing-Wax and String: How Everyday Things Carried Gender into the Physical Laboratory

- Donald L. Opitz

## **71 - Counter-Knowledge – 1. Forms and Practices**

Organiser: Alexander von Schwerin

Chair: Alexander von Schwerin

Poverty research or research poverty. The evolution of knowledge production by poverty actors through three cases (Belgium 1950-1980)

- Els Minne

Media techniques and Knowledge Production of Anti-Psychiatric, Feminist, and Esoteric Groups in West-Germany, 1967-1991

- Susanne Doetz

(En)countering the World System. System Dynamics as Counter-Knowledge and Hegemonic Toolkit

- Jacob Birken & Sebastian Randeratz

### **35 - Science Diplomacy and Politics - 1**

Organisers: Matthew Adamson & Doubravka Olšáková

Chair: Sam Robinson

The Other Needham and China: Situating Dorothy Needham in Sino-British Science Diplomacy, 1944-1972

- Gordon Barrett

Turning the world upside down. The naturalist Correia da Serra and the American Hemisphere project

- Ana Simões & Maria Paula Diogo

When 'purity' meets politics. High-energy physics in the early Cold War period

- Barbara Hof

Diplomatic Studies of Science

- Maria Rentetzi

### **19 - Science and Infrastructures of Empire**

Organiser: Sarah Qidwai

Chair: Sarah Qidwai

Securing the Southern Skies: Astrophotography and Leiden Observatory's Search for a Southern Station

- Chaokang Tai

German Astronomical Expeditions as Users and Builders of Infrastructure

- Katharina Bick

Colonial Infrastructure as Pest Infrastructure: Rats and Plague in Johannesburg, 1904-1907

- Jules Skotnes-Brown

Geological Surveys and the Expansion of Colonial Empires

- Sarah Qidwai

**Thursday 13:00-14:00 – Lunch & ERC brownbag**

**Outreach session on the ERC funding opportunities for historians of science**

The main aim is to present the ERC funding schemes (Starting, Consolidator, Advanced and Synergy grants), the specificities of the SH6 “The study of the human past” panel and the potential of these grants for applicants at different career stage (from post-doctoral researchers to well-established historians) in the field of history of science. Two ERC grantees will then present their experiences in going through the selection procedure and running ERC projects in this field.

Introduction and presentation of the ERC granting opportunities for potential applicants in the field of history of science

- Dr. Flavia Cumoli (ERC Scientific Department, Brussels)
- Prof. Maria Rentetzi (FAU Erlangen-Nürnberg) PI ERC project HRP\_IAEA “Living with Radiation The Role of the International Atomic Energy Agency in the History of Radiation Protection” presents her research and experience
- Dr. Matthieu Husson (CNRS, Observatoire de Paris), PI ERC project “ALFA Shaping a European scientific scene: Alfonsine astronomy” presents his research and experience

**Thursday 14:00-16:00 - Sessions**

**68 - Computing Politics in late 20th and early 21st century - 2**

Organisers: Arianna Borrelli & Liesbeth De Mol

Chair: Arianna Borrelli

Expert Systems as a bridging technology. From technology policy to innovation policy in the Federal Republic of Germany

- Jakob Tschandl

The German Research Center for Artificial Intelligence (DFKI)

- Rudolf Seising

An interdisciplinary approach to the design of autonomous systems

- Daniel Trusilo

**58 - Amateurs and precision instruments in the second half of the 18th century**

Organisers: Rossella Baldi & Sibylle Gluch

Chair: TBA

Shaping a community of customers: amateurs and Josiah Emery lever escapement timekeepers

- Rossella Baldi

Ambassador of the Saxon Court and the English Trade in Precision Instruments: Hans Moritz Count Brühl (1736-1809)

- Sibylle Gluch

The eighteenth-century 'amateur' scientist at home

- Leonie Hannan

Comment: TBA

## **2 - Government and the Polar Sciences, 1818-2000**

Organiser: Edward Gillin

Chair: Sam Robinson

The Nature of Empire: imperial science and the polar observatory, 1818-1860

- Edward Gillin

"For the benefit of mankind": trade and imperial science in the polar voyages of James Clark Ross

- Alexa Price

"Continued display of State activity": The Discovery Investigations (1918-1951) and State Science in the British Antarctic

- Daniella McCahey

If we're all in Antarctica, who's driving this train? Exploring boundary-work and the governing of scientific infrastructure around Halley research station, 1956 –2000

- Alice Oates

## **42 - Approximation, Precision and Error as Actors' Categories in the Alfonsine Astronomical Tradition**

Organisers: Samuel Gessner & Sophie Serra

Chair: Matthieu Husson

Parisian pre-Alfonsine astronomy: changing times and changing values

- Sophie Serra

Computing latitudes as a medieval astronomer

- Camille Bui

The challenge of precision measurements using astronomical instruments: the case of the directorium

- Nick Jacobson

Geometrical approximation and the correct planetary positions on early astronomical clocks

- Samuel Gessner

## **23 - Science policies and scientific collaboration - 2**

Organiser: Luca Guzzardi

Chair: Chiara Lisciandra

Not More than Exchanging Tools: Early Encounters Between Mathematical Economists and the Behavioral Sciences Movement, 1950-56

- Catherine Herfeld

Paths that did not cross. The failed collaboration between philosophy of science and science policy in the second half of the Twentieth century

- Eugenio Petrovich

Collaboration gone sour: the case of history and philosophy of science

- Matteo Vagelli

Michel Serres and the Groupe des Dix

- Massimiliano Simons

## **12 - The office as a place of production, adaptation and circulation of scientific and academic knowledge**

Organiser: Thomas Brandt

Chair: Ellen Grav Ellingsen

The Academic Office Through Photographs: Making identity and knowledge at the Norwegian University of Science and Technology (NTNU) from the 1910s to the 2020s

- Magne Brekke Rabben & Annette Lykknes

Conceptualizing and situating knowledge production: The academic office in history and theory, and locally at the Dragvoll University Campus in Trondheim

- Mattias Bäckström & Thomas Brandt

Sites of knowledge – sites of negotiation: the role of seminar rooms in institutionalizing research and education

- Daniel Normark & Lars Fälting

Science by the Sea: Mitchell, Moyle and the Glynn Research Institute

- Benjamin R. Palmer

## **9 - The Scientization of Central Banks – 1. Sociology and Measurement of Scientization**

Organisers: Aurélien Goutsmedt & Francesco Sergi

Chair: Matthias Thiemann



Professional Decoupling or Interrelated Intellectual Field? The Relationship Between Central Banks Knowledge Production and Academia

- Edin Ibrocevic

The Central Banks' Function of Studies. What "Scientization" of Central Banking?

- Maxence Dutilleul

Scientific Trajectories of Central Bank Governors in the World: A Global Comparison 2000-2020

- Aykiz Dogan & Frédéric Lebaron

Researching the Research: A Central Bank Edition

- Simona Malovana, Martin Hodula & Zuzana Gric

#### **44 - Boundings and unboundings in the sciences: gender, experimentation, and authority - 2**

Organisers: María Jesús Santesmasés & Andrea Núñez Casal

Between the Home Kitchen and the Hospital Laboratory: Margaret Lasker's Path to Scientific Authority

- Nurit Kirsh

Images, narratives, and gender: research cultures in Spain during Franco's dictatorship

- Ana Romero de Pablos

Women microbiologists: approaching the Spanish antibiotic research community (1975-1990)

- Isabel M. Gómez Rodríguez

#### **72 - Counter-Knowledge – 2. In Context**

Organiser: Alexander von Schwerin

Chair: Alexander von Schwerin

Occupational medicine in Italy: radical movements and the emergence of a new approach (1960-1980)

- Roberto Gronda, Mauro Capocci & Giulia Frezza

Nuclear Counter-Knowledge: Counter-Experts and Nuclear Risk in West Germany (1970s-1980s)

- Stefan Esselborn

Between scientific evidence and environmental activism. Activist criticism of the global pesticide trade during the 1980s

- Nina Kramer

How Patient Activists in Canadian Clinical Cancer Research Became Participants in the Construction of Scientific-Medical Knowledge, 1961-1991

- Fedir Razumenko

## **36 - Science Diplomacy and Politics - 2**

Organisers: Matthew Adamson & Doubravka Olšáková

Chair: Simone Turchetti

The politics of technological instruments or the Whole-Body Counter as a Mute Diplomat

- Clara Florensa

A Southern soft power? The idea of a house for Brazilian scholars at the International University City of Paris in the interwar period

- Luciana Vieira & Silvia Figueirôa

East-European Challenges of Pugwash: Critical Milestones in East-West cooperation across the Iron Curtain

- Doubravka Olšáková

Institutionalizing physics between global ambitions and geopolitical constraints: the history of IUPAP as a hybrid science diplomacy agent

- Roberto Lalli

## **118 - Values in science and the authority of science**

Scientific truth and scientific authority: merits and limits of the Sociology of Scientific Knowledge

- Morgan Adou

What Kind of People Make Good Scientists? Knowledge and Virtue in Postwar America (1950–2000)

- Sjang L. ten Hagen and Kim M. Hajek

Science in the Russian provinces: personnel, infrastructure, and relations with the authorities (1917-1922)

- Elena Sinelnikova

## **Thursday 16:30-18:00 - Sessions**

### **69 - Computing Politics in late 20th and early 21st century - 3**

Organisers: Arianna Borrelli & Liesbeth De Mol

Chair: Arianna Borrelli

Criminalizing machinery: the computerization of American law enforcement in the 1960s

- Stephanie Dick

Statistical metrics of algorithmic fairness: rigorous path to fairness or bureaucratization of ethics?

- Maël Pégnny

Comment: Liesbeth De Mol

### **45 - Boundings and unboundings in the sciences: gender, experimentation, and authority - 3**

Organisers: María Jesús Santesmases & Andrea Núñez Casal

Unsettling Scientific Certainties, Unsettling Authority

- Sumiko Hatakeyama

Gender and the sources for a story on microbials and antimicrobials in an industrial research laboratory

- María Jesús Santesmases

Betalactamases in the clinical microbiology lab: Clara Roy and antimicrobial resistance in Barcelona during the 1980s

- Cristina Moreno

### **34 - Small science**

Organiser: Xavier Roqué

Chair: Xavier Roqué

Small Science in a Big Way. Satellites, Data and Weather

- Gemma Cirac-Claveras

The peripheral and theoretical origins of Quantum Statistics

- Enric Pérez Canals

The meanings of small science

- Xavier Roqué

### **126 -Democratization and popularization**

Visions of science and technology: how two Portuguese generations look and perceive science, technology, and popularization of science

- Inês Nepomuceno Navalhas

Governesses in the Kingdom of Poland (1864–1904) in the context of class and gender

- Alicja Urbanik-Kopec

A 'Political and Politico-Academic Attack': The Working Party for a Traveling Computer for Sixth Forms

- David E. Dunning

**124 - History of higher education policy and patents**

Tallinn University of Technology – a Centre of Knowledge in the Periphery

- Peeter Mürsepp

Security Issues and Research Application in Interwar Czechoslovakia: A Case Study of Patent and Trademark Disputes

- Tomáš Gecko

Conflicting views on university governance: A Belgian case study (1971-2003)

- Alexia Coussement

**108 - Academic traditions and cultures**

Framing the Reference. Early Modern Dissertation Culture and the Practice of Making References

- Maija Kallinen, Tommi Alho

Gymnasium professors awaiting a generational change and their significance for the circulation of knowledge

- Tomáš W. Pavlíček

Physicians and Republic of Letters in Early Modern Practice-oriented Genres of Literature

- Bohdana Divišová

**90 - Early modern Britain**

Deciphering Isaac Newton's *regulae philosophandi* and the Queries: A Comparative Study

- Frederik Dhondt

Newton and the ancients, or, how I learned to stop worrying and love Hermes Trismegistus

- Cornelis J. Schilt

The vital material of moral virtue in Francis Bacon's natural philosophy

- H. Glen Taylor

**47 - Geoscience Spillover: The Applied Geosciences at the Intersection of the Oil Industry and Alternative Energy**

Organiser: Odinn Melsted

Chair: Cyrus Mody

Geoscience Spillover: The Oil Industry and Geothermal Development in Greater California

- Candida F. Sánchez Burmester

Indirect Spillover: The Role of Petroleum Technologies in the Icelandic Transition from Oil to Geothermal Energy

- Odinn Melsted

Radioactive Knowledge: The Role of Oil Geologists and Geophysicists in the Development of the Nuclear Industry

- Michiel Bron

## **10 - The Scientization of Central Banks – 2. National Paths of Central Banks Scientization**

Organisers: Aurélien Goutsmedt & Francesco Sergi

Chair: Ivo Maes

Economic Expertise and the International Circulation of Economic Ideas: Debating the Portuguese Central Bank

- Ana Costa & Gonçalo Marçal

The Bank of Italy's Servizio Studi: In-Between Academic and Policy Language

- Antonella Rancan

Employing Economists: The Bank of England and its First Economic Advisers, 1918–1935

- Robert Yee

## **73 - Counter-Knowledge – 3. Epistemic Tensions**

Organiser: Alexander von Schwerin

Chair: Alexander von Schwerin

Looking beyond Western Biomedicine: The Journal Curare in West Germany

- Lisa Schmidt-Herzog & Cornelius Borck

Between science and anti-science? Counter-universities since the 1960s

- Susanne Schregel

Naturalism and the Fight against Counter-Knowledge: The American Skeptics Movement in a Global Context

- Stephen P. Weldon

## **150 - From Life Sciences to Healthcare Provision: Lessons from Past and Present Experience (Business History Chair Roundtable)**

Confirmed speakers:

- Victor G. Rodwin, Professor Emeritus of Health Policy and Management, Wagner School, New York University

**Version: July 16 – subject to slight revision**

- Reinhilde Veugelers, Professor at KU Leuven, Senior Fellow at Bruegel and at the Peterson Institute for International Economics

In conversation with Mathias Dewatripont and Kenneth Bertrams (Université libre de Bruxelles)

**Thursday 18:30-20:30 - Business History reception**

**Friday 09:00-10:30 - Sessions**

**81 - The Political Economies of the Earth Sciences**

Organisers: Gustave Lester & Victor Monnin

Chair: Charlotte Abney Salomon

Between Extraction and Exegesis: The Politics of Mining and Cosmologies in the Austrian Low Countries, 1769-1792

- Mathijs Boom

Science, Settler Colonialism, and Extraction in the Upper Mississippi Valley, 1780-1840

- Gustave Lester

Shaping Invertebrate Fossils and Microfossils into Tools of Extraction, 1810s-1920s

- Victor Monnin

Products of the Mineral Kingdom: Mineral Science in Sweden, 1740-1820

- Charlotte A. Abney Salomon

**11 - The Scientization of Central Banks – 3. The Politics of Scientization**

Organisers: Aurélien Goutsmedt & Francesco Sergi

Chair: Morgane Delorme

The Multiple Paths of Scientization at the Bank of England

- Béatrice Cherrier, Aurélien Goutsmedt, Francesco Sergi & Clément Fontan

“Central bank economists and the impact of the financial crisis on the academic economic discourse”

- Matthias Thiemann & Stefan Priester

Discussion

**109 - History of genetics - 1**

A Milestone in the History of Genetics: University of Sevilla’s Genetics Department

- Enrique Wulff

Schizophrenia and molecular genetics: Mendelian approaches of mental illness during the 1960s and 70s

- Apostolos K. Gerontas

Gender, Ethnicity, and the Limits of Institutional Leadership in the Discovery of RNA Splicing

- Pnina Geraldine Abir-Am

**75 - Politics and the Public Sphere in Recent German Science: The Case of the Max Planck Society - 1**

Organiser: Mitchell G. Ash

Chair: Carsten Reinhardt

Science for and against diplomacy. The Max Planck Society's Role in West German Foreign Policy – Soviet Union and China in Comparison (1955-1995)

- Carola Sachse

The Max-Planck-Society in the Process of German Unification 1989-2003

- Mitchell G. Ash

Discussion

**101 - Ancient mathematics**

The Rekhāgaṇita, Sanskrit translation of Euclid's Elements : I. Definitions, Axioms and Common notions

- Jean Michel Delire

Ancient Mathematics, Technical Abilities and the Emergence of Technological Approach

- Davide Pietrini

Was Euclid a Platonist philosopher?

- Benjamin Wilck

**41 - Who Are the Social Scientists? Profiles, strategies and circulations of actors of a knowledge in the making (1870-1940)**

Organisers: Marie Linos & Margot Elmer

Chair: Wolf Feuerhahn

The Université Nouvelle de Bruxelles, a shelter for progressist sociologists across Europe: portraits, trajectories and diplomas of a new kind of intellectual (1894-1919)

- Margot Elmer

Social sciences: A matter for lawyers? The institutionalization of an emerging scientific discipline in Belgian Universities (1870-1914)

- Maxime Jottrand

“Birds of a feather flock together”: Partners in life and work in early 20th- c. American Social Science

- Marie Linos



### **93 - History of Modern physics - 1**

Einstein's General Relativity Theory reconsidered

- Henk Kubbinga

Meson or Mesotron: Etymology of Elementary Particles

- Helge Kragh

The remodeling of theoretical physics across World War II seen through the emerging concept of virtual particle

- Jean-Philippe Martinez

### **88 - Gender perspectives on the History of Science - 1**

Not only boys at via Panisperna

- Miriam Focaccia

"Hopelessly Devoted to Science! Gendered Diplomacy of the Spaces and Material Practices of Science: Cécile and Alexandre Brongniart Couple (19<sup>th</sup> century, France)

- Martine Mille

The canon of the history of science through a gender perspective

- Anne-Sophie Godfroy

### **106 - Sustainability and biodiversity**

Diversifying Green Revolution: Asian Vegetable Research and Development Center (AVRDC) from the Cold War to the Dawn of Sustainability, 1963-1988

- Leo Chu

Decentring the history of 'biodiversity': scientific knowledge and its co-construction with environmental policies in the 'Instituto Nacional para la Conservación de la Naturaleza' during the last third of the twentieth century in Spain

- Max Bautista Perpinyà

From Goethe to Sustainability: Politics and Ideology of Sanfte Chemie

- Marcin Krasnodębski

### **122 - Epistemic cultures**

Exilic Epistemology as Geopolitical Capital: Contextualizing Seventeenth-Century Irish Responses to the New Sciences

- Kevin Gerard Tracey

On the transition from Aristotelian syllogistic logic to Fregean symbolic logic

- Ladislav Kvasz

Insects as Food Sources in Modern Europe: Images as Epistemic Tools and Framing Devices of the Natural World

- Milton Fernando Gonzalez Rodriguez

### **123 - History of scientific institutions**

The establishment and development of the State Institute of Archaeology (1919-1952) in the light of archaeologists' correspondence

- Marcela Starcová

Successful institutionalization without an institute to show for it: The case of the IOWO 1971-1981

- Elske de Waal

### **Friday 11:00-13:00 - Sessions**

#### **119 - History of Science policy - 1**

Policies of (Extra)Terrestrial Intelligence in the Soviet Republic of Armenia

- Gabriela Radulescu

The life cycle of basic research idea in Finnish policymaking

- Antti Alaja

Small-state science policy and politics: Shaping Denmark, science, and technology in the 20th century

- Casper Andersen; Kristian H. Nielsen

Science in a free sphere. The History of the High-Alpine Research Station Jungfraujoeh, 1922-1952

- Leander Diener

#### **80 - Appropriating the Science of the Past: Scholarly Intentions and Ideological Constraints**

Organiser: Daria Drozdova

Chair: Daria Drozdova

Newton, the Jesuits, and the Politics of Cosmology in Eighteenth-Century Rome

- Ovanes Akopyan

Image of Giordano Bruno, Hero and Martyr of Science, in Late Nineteenth-century Russia

- Daria Drozdova

Monk Iakinf (Nikita Ya. Bichurin, 1777-1853) and his interpretations of Zhou Dunyi's 周敦頤 (1017-1073)

Taiji tu shuo 太極圖說 (Explanations of the Diagram of Great Ultimate)

- Alexei Volkov (琅元)

Vassilii Zubov and Shadows of Giants

- Dimitri Bayuk

### **110 - History of genetics - 2**

The incredible life of Gregor Mendel in the mist of 1848 revolution (1849-1854)

- Christiane Nivet

Quantity and Quality: The Belgian Jesuit Valère Fallon and the Catholic Way to Eugenics

- Carlo Bovolo

Between rationality and ideology: Challenging historiographical narratives on early 20th-century eugenics

- Nicola Bertoldi

### **76 - Politics and the Public Sphere in Recent German Science: The Case of the Max Planck Society - 2**

Organiser: Mitchell G. Ash

Chair: Carsten Reinhardt

The Max Planck Society's Nazi past as a Political Challenge: Legal Conflicts Surrounding Scientology's Instrumentalization of the Kaiser Wilhelm Society's History against the Max Planck Society

- Florian Schmaltz

'Are we willing to fight for our research?': Max Planck Society's lobbying and communication strategy during the reforms of the Animal Welfare Act in Germany 1986-2002

- Juliane Scholz

Comment: John Krige

### **104 - History of Medicine**

Cholinesterase: Brain Enzymes and Human Experimentation in post-war Britain

- Rebecca Watterson

Crossing Boundaries: Science Diplomacy, Radioactive Isotopes, and the Emerging Field of Nuclear Medicine in Austria in the European Context (1950–1975)

- Johannes Mattes, Cécile Philippe & Sandra Klos

Popular resistance against state-promoted fumigation

- Mathilde Martinais

Xenotransplantation and the Politics of Human and Animal Organs: a Socio-historical Analysis

- Tarquin Holmes

## **94 - History of Modern physics - 2**

Bell's Theorem. A Scientometric Approach to History of Science

- Filippo Oberto

The Promise of Science: Building International Scientific Cooperation in post-WWII Europe

- Luca Forgiarini

Biased narrative in the scientific literature: the case of Gravitational Wave science

- Livia Conti

## **89 - Gender perspectives on the History of Science - 2**

The History of Gender Mainstreaming Policies at German and Austrian Academies of Science in comparison. Preliminary Results and further Discussion Points

- Sandra Klos

Poland versus gender studies: The academic fight for equality and the government backlash

- Daniel Sunderland

Ethel Lindgren's Universal Arctic: scientific, personal and political

- Naï Zakharia

## **107 - History of Nuclear Science**

The Nuclear-Based Closed Carbon Cycle: A Missed Opportunity

- Benjamin Johnson

The Atomic Exhibition: Design and Politics

- Donatella Germanese

Nuclear encounters: Italian and German physicists during WWII

- Adele La Rana

## **26 - (In)credible Scientists**

Organiser: Hannah Erlwein

Chair: Hannah Erlwein

Gatekeepers of Science: Debating Credibility in the Premodern Islamic Context

- Hannah Erlwein

*Esprits forts*, Credibility, and Scientific Community in the Montmor Academy, 1654-1664

- Julia Reed

Credibility Gaps? Scientists, Method, Knowledge Then and Now

- Katja Krause

The Social and Epistemic Makings of a Scientist in Seventeenth-Century Germany

- Tracy Wietecha

### **97 - Collections, heritage, and exhibitions**

The 'Anatomy Museum' of the Faculty of Medicine of Lisbon (1825-1970): the biography of an invisible collection

- Catarina Teixeira

Turin and the Industrial Revolution in the mirror of the Exhibitions

- Marco Pozzi

The Provenance History of Fetuses of Nineteenth and Early Twentieth Century Amsterdam (1860-1930)

- Lisa Vanderheyden

The do's and don'ts of merging two centenary research institutions: The Coimbra University Astronomical Observatory and the Geophysical Institute

- Pedro J. E. Casaleiro

### **114 - History of agriculture**

Science-policy-practice memories: oral histories of farming in Britain 1950-1990

- Paul Merchant

The Ottoman Bakteriyoljihane-i Şahane: a French scientific enclave?

- Meriç Tanık

Passive Learning of Farming: The Diffusion of Agricultural Knowledge in The Dutch East Indies (1817-1942)

- Irawan Santoso Suryo Basuki

### **117 - Hybrid knowledge**

Scientists as Science Makers

- Albert Presas i Puig

Wooden walls or iron plates? – Negotiating the future of the British fleet around 1860

- Albert Loran

Exhibition and the Death of the Author: Was there a knowledge community in nineteenth century China?

- Su Hu

Against all odds: Bettencourt Faria's astronomical observatory

- Vitor Bonifácio

**Friday 13:00-14.00**

**Anniversary meeting of the DHST Commission on Women and Gender in Science**

**Friday 14:00-16:00 - Sessions**

**120 - History of Science policy - 2**

Historians tackling "Societal Challenges": A history of EU funding for policy-oriented historical research

- Marie-Gabrielle Verbergt

Foreign scientific research as threat and drive for Portuguese field science in Africa

- Cláudia Castelo

Following the money: An alternative history of research policy in post-war Sweden

- Per Lundin

"30 percent applications": tensions on government planning and scientific autonomy in 1970s laser research in West Germany

- Johannes-Geert Hagmann

**53 - Service science between policy and practice? The role of chemical institutions and experts - 1**

Session organiser: Annette Lykknes & Carsten Reinhardt

Chair: Annette Lykknes

Testing and monitoring of plastics, paints and rubber: The Department for Organic Chemistry of the German State Materials Testing Office 1924-1944

- Malte Stöcken

„Such a branch could be the base for a Federal Chemical and Technical Institute” – On the development of the Institute for Chemical and Technical Research 1961

- Elisabeth Kölmel

The Testing of Military Materials for the German Democratic Republic and the Role of the Testing Laboratory for Organic-Technical Chemistry in Altenburg

- Yvonne Elisabeth Schellhorn

Discussion

**32 - Science Studies between Science Policy and the Politics of Science. Perspectives across the Iron Curtain - 1**

Organisers: Jan Jakub Surman & Monika Wulz

Chair: Fabian Link

To Forget Boris Hessen: Ghost of Externalism within Late Soviet History and Philosophy of Science  
- Alexander Dmitriev

“Applied History of Science:” Politicisation of History and the Paradigm Change in Cold War Central and Eastern Europe  
- Jan Surman

Planning the science – serving the state: The Institute for the Planning of Science of the Czechoslovak Academy of Sciences 1962–1967  
- Michaela Šmidrkalová

Discussion

**105 - History of Medicine - 2**

The Modern "Soul"  
- Otniel E. Dror

Maternal bond and healthy child. Transnational knowledge and its application in one country  
- Katerina Liskova

The politics and practice of the molecularization of the clinic in precision medicine  
- Robert Meunier

**70 - Studying mathematics in Göttingen – becoming a member of the international community of scientists**

Organisers: Danuta Ciesielska & Martina Bečvářová

Chair: Renate Tobies

American and Polish students of mathematics in Göttingen – similarities and differences. Part I: Americans from the US  
- Margaret Stawiska-Friedland

American and Polish students of mathematics in Göttingen – similarities and differences. Part II: Poles  
- Danuta Ciesielska

Jarník's mathematical studies in Göttingen  
- Martina Bečvářová & Jindřich Bečvář

Mathematical research between Italy and Germany. Fabio Conforto's stay in Göttingen in 1932

- Maria Giulia Lugaresi

### **85 - Expertise and experts**

The making of ignorance at workplaces: The role of experts in Ardystil Syndrome Case in late 20th-century Spain

- Sofiya Kamalova

No strings attached - Participation strategies of Soviet Experts in International Health Organizations

- Anastasiya Schacht

The 'transnational birth' of the graduate unemployment expert: the Belgian casus (1933-1940)

- Virgile Royen

The Political Dimensions of Mineralogy. Prussian Civil Servants in the Early 19th Century

-Angela Strauß

### **86 - History of mathematization of nature and the social world**

Colonialism, certainty, and utility of mathematics in practical institutions in Spain (1500-1700)

- Helbert E. Velilla-Jiménez

The camera obscura: practical uses and the geometrical location of the image,1568-1711

- Jip van Besouw

Urban Populations and Urban Problems in Quetelet's Population Statistics of the Mid-Nineteenth Century

- Kaat Louckx

A Meeting Point for Organicist and Populational Approaches in Interwar Biology: The Theories and Practices of E.S. Russell, 1908-1939

- Alejandro Fábregas-Tejeda

### **91 - History of psychiatry and criminology**

Finding Ruh in the Forebrain: Mazhar Osman and the Emerging Turkish Psychiatric Discourse

- Kutluğhan Soyubol

Mere belatedness or a missing phase? Plans for a mental asylum in nineteenth-century Hungary

- Janka Kovács

An international legacy: the non-Italian winners of the Lombroso prize for the best work in criminal anthropology (1922-1936)

- Franco Capozzi



Reforming Girls: Psychiatry and Moral Education in Paris, 1870-1914

- Axelle Champion

## **92 - Colonies and colonial perspectives**

“Se ha hecho la experiencia” : Policies of transplantation and private botanic experiments in Spanish America (1492-1555)

- Antoine Duranton

Publication, sponsorship, and the representation of scientific fieldwork in the twentieth-century: the Xavantina-Cachimbo expedition case study

- Catarina Fontoura

Ethnomusicology, recording technology, and the ‘invention of Africa’: rethinking the role of science in ‘adapted’ mass music in colonial Congo

- Eva Renate M. Schalbroeck

The Politics of Medical Education in British Malaya and Post-colonial Malaya

- Sandra Khor Manickam

## **116 - History of earth sciences**

The French Bureau des longitudes and its implications in the renovation of international geodesy (1917-1925)

- Martina Schiavon

The Institut national de géographie: politics, science and capitalism

- Colin Dupont

“A New Approach to the Scientific Trajectory: Applying Cartography GIS and Digital Formalization to the Case Study of Scientist Alexandre Brongniart, 19th century, France)”

- Mathieu Fernandez

## **13 - Dissemination and Exchange of Scientific Knowledge in Early Modern Europe: Interactions among Scientific Communities and Religious Milieus**

Organisers: Ivana Gambaro & Luís Miguel Carolino

Chair: Luca Guzzardi

The Jesuit Network and the Reception of Tycho Brahe in Early Modern Portugal

- Luís Miguel Carolino

From Heaven to Earth: Contributions to Astronomy and Geography from Jesuit Networks in 17th Century

-Ivana Gambaro

A Network of Scientists on the Moon

-Valeria Zanini

Hiding in Plain Sight: An Allegory of Catholic Crypto-Copernicanism in a 17th-Century Astronomical Frontispiece

-Daniel Stolzenberg

### **Friday 16:30-18:30 - Sessions**

#### **54 - Service science between policy and practice? The role of chemical institutions and experts - 2**

Organisers: Annette Lykknes & Carsten Reinhardt

Chair: Annette Lykknes

The Early History of Agricultural Chemistry or How Chemists Conquered the Soil: Chemical Training, Analysis, and Field-Lab-Research before and around 1800

- Christopher Halm

Trying to Return Europe to the Ancien Régime: Humphry Davy in Naples Chemically Recovering Ancient Literature, 1817-1820

- Frank James

Comment: Carsten Reinhardt

#### **33 - Science Studies between Science Policy and the Politics of Science. Perspectives across the Iron Curtain - 2**

Organisers: Jan Jakub Surman & Monika Wulz

Chair: Doubravka Olšáková

Laboratory Life in the GDR: Processes, Everyday and Progress in East German Science Studies (1970s/1980s)

- Friedrich Cain

Science, Technology, Development. The History of Science Studies in International Socialist Debate

- Monika Wulz

Sociology of Science, Science Policy, and the German Reunification: The Max Planck Institute for the Study of Societies Cologne and the Integration of the GDR System of Science into West Germany's Research System

- Fabian Link

#### **87 - History of natural history and citizen science**

Collecting popular knowledge to destroy it: colonial accounts of rurality and nature in the province of

Barcelona (1878-1891)

- Monica Alcalá-Lorente

Natural history societies as platforms for citizen science in the 19th century Russia

- Galina Krivosheina

Talking about the history of citizen science in Portugal: the volunteer involvement in biological recording

- Cristina Luís

## **96 - Early Modern science, philosophy and mathematics**

Spinoza's Philosophy and the Birth of Contemporary Physiology

- Filip A. A. Buyse

“Laboravit Tschirnhaus cum aliis quibusdam in argilla”; An often-misinterpreted quote by Leibniz revisited

- Nicholas Zumbulyadis

Leibniz in math: who did he write to?

- Arilès Remaki

## **57 - Making legitimate science in tumultuous times: semantics, communication, and the public in late-Enlightenment France (1773-1811)**

Organiser: Valentine Delrue

Chair: Stéphane Van Damme

What a comet can make to you

- Ilaria Ampollini

Making 'deposits'. The mesmeric *dépôt* and (il)legitimacy (1779-1784)

-Chloé Conickx

Useful or useless? The French public as an actor in constructing credibility for atmospheric tides meteorology (1799-1811)

-Valentine Delrue

Comment: Stéphane Van Damme

## **82 - Histories of viruses and vaccination**

Back to normal – reality or dream? The aftermath of the Spanish flu in real data

-Tereza Kopecka

Elites or Immigrants: Introduction of Smallpox Inoculation to Europe

- Karel Černý

Vaccination Policies and their Supporters: The Case of Homeopathy in 19<sup>th</sup> Century Italy

- Paola Panciroli

Containing the Uncontainable: the Pharmakon of Prevention in Vaccination Epistemologies Across Science, Ecology & Public Health Policy

- Sofia Varino

### **83 - Intercultural circulation of knowledge**

Soils, Stars and Statecraft: Cosmological Conceptions of Agriculture in China and Europe, ca. 1600-1789

- Gianamar Giovannetti-Singh

How to Craft the Ideal Citizen? Hypnosis, Social Reform and the Making of Modern China, 1900–1949

- Luis Fernando Bernardi Junqueira

British interest in Japan revealed by the reproduced copy from Daikokuya Kōdayū's map of Japan made in Russia in 1793

- Yuko Takigawa

From Europe to China and return. The role of Sabatino De Ursis S.J. in the diffusion of European astronomy in China and in the knowledge of Chinese calendar in Europe

- Giancarlo Truffa

### **95 - History of physiology and primatology**

Timeless Spaces: The 'labsapes' of sleep and circadian science in the mid-twentieth century

- Kristin D. Hussey

"Primatology": how can a field name unite a community?

- Marie Lacomme

Sonic Experiments at the Margins: Inventing the Psychophysical Listener in 19th-Century Prague

- Anna Kvičalová

Sound and Eidetic Imagery in the 19th And Early 20th Century Psychophysiology

- Ivan Loginov

### **98 - Socialism and Science**

Experts, children and the state. The establishment and early activity of the Institute of Mother and Child in state socialist Poland (late 1940s to 1960s)

- Natalia Jarska

Ideology, autonomy and the construction of the “socialist doctor”: Possibilities and constraints in medical education in state socialist Hungary

- Viola Lászlófi

Every Child According to Its Pace: School Maturity at the Crossroad of Psycho-Pedagogical Expertise and State Policies in Socialist Hungary (1960s - 1980s)

- Aninna Gagyoiva

Zoological Institute of the Academy of Sciences of the USSR and the tasks of socialist construction: scientific policy in Stalin’s period in particular institute and its results

- Nadezhda V. Slepko

### **100 - History of mathematics**

Behind the exhibit, beyond the confidential: the Volta 1939 Conference

- Erika Luciano

Teaching mathematics in the 18th century: the case of Italian universities

- Davide Crippa

Striking Parallels: Nation building and renewal of mathematics in Risorgimento Italy and its effects on Germany

- Erwin Neuenschwander

### **Friday 18:30-19:30**

**Business meeting of the DHST Commission on Science, Technology and Diplomacy**

**Saturday 09:00-10:30 - Sessions**

**29 - Astronomers' histories of astronomy: practices around the Paris Observatory (18th-19th centuries) - 1**

Organisers: Giorgio Matteoli, Matthieu Husson, Christophe Schmit

Chair: Christophe Schmit

Genres of celestial history

- Florence C. Hsia

The astronomer figure in the Éloges of the French royal academicians: a matter of politics?

- Dalia Deias

Cassini I and Fontenelle on the History and Progress of Astronomy

- Daniel Špelda

**84 - Science and visual culture**

Westerns and the construction of a visual socio-cultural space for natural history in late Franco's Spain (1960s-1970s)

- Carlos Taberner

To Design, or Not to Design... The Role of Exhibit Design in Landmark Science Presentations of the 1960s from MATHEMATICA to the Exploratorium

- Arne Schirmacher

Photography and the making of science in Portugal (1850s-1920s)

- Hugo Silveira Pereira

**4 - Scholarly and artisanal mathematics in the Early Modern Period**

Organisers: Thomas Morel & Michael Friedman

Chair: Angela Axworthy

Making Euclid practical in the 16th century

- Angela Axworthy

Textile practices and mathematical knowledge in the 17th century

- Michael Friedman

The Mines and the Court: Artisanal Practices and Mathematics in Early Modern Dresden

- Thomas Morel

### **38 - The Politics of Data, Environments, and Infrastructures - 1**

Organisers: Matthew Adamson & Doubravka Olšáková

Chair: Grigoris Panoutsopoulos

Science diplomacy behind 'data politics'? Collaboration and competition in the setting up of IGY World Data Centers

- Simone Turchetti

Shipping spectroscopes to Spain: The diplomacy of an American eclipse expedition in 1870

- Deborah A Kent

The 'soul' of ALMA. Science diplomacy in a transnational astronomical facility

- Barbara Kirsi Silva

The Prelude to US-China Space Cooperation: The Role of Satellite Ground Stations in Nixon's Rapprochement with Beijing

- Tonio Savina

### **16 - Epistemology and Politics in Climate Science – 1. Early Cold War**

Organisers: Matthias Heymann & Dania Achermann

Chair: Fabian Link

Simulating climates: the CNRS phytotron, biological « Big Science », and agricultural modernization in France's Trente glorieuses

- Lucie Gerber

The role of Swiss politics in the establishment of ice core paleoclimatology

- Dania Achermann

Science diplomacy and politics: Building the Global Atmospheric Research Program

- Matthias Heymann

### **102 - Eighteenth century: networks and laboratories**

The political project of the Societas Meteorologica Palatina (1780-1795) through the correspondence of Jan Hendrik van Swinden (1746-1823)

- Simon Dolet

International policymaking in the laboratory: projects of metrological unification in late eighteenth-century France

- Emma Prevignano

Van Musschenbroek and Duhamel on the strength of materials

-Pieter Beck

### **113 - History of food and water control**

Public assessment of water quality for domestic and manufacturing purposes: the water hardness tests in the mid 19th century

- Marco Taddia

A Praxeology of the Butter Refractometer: Regulatory Knowledge, Food Control, and Optical Measurement Instruments

- Christian Forstner

The Role of Analytical Chemistry in European Science-based Policies: The Emergence of Portuguese Food Regulations (1875-1905)

- José Ferraz-Caetano

### **27 - Scientific temporalities in the 19th and 20th centuries - 1**

Session organiser: Staffan Bergwik

Chair: Staffan Bergwik

Provenance and the Multiple Timescales of Nineteenth-Century Archives and Historiography

- Emma Hagström Molin

Little Red Ring Binders: Early Red List Temporalities

- Marit Ruge Bjærke

Planetary Timekeeping: Paleoclimatology and the Rise of Proto-Anthropocene Knowledge, 1960-1990

- Erik Isberg

### **51 - Expertise in the Low Countries in the Early Modern Period - 1**

Organiser: Maarten Van Dyck

Chair: Steven Vanden Broecke

Historicizing expertise: challenges and opportunities

- Maarten Van Dyck

Dutch-language literary communities and the productivity of expertise, 1550-1650

- Arjan van Dixhoorn

Expertise in early modern printmaking

- Marlise Rijks



**Saturday 11:00-13:00 - Sessions**

**30 - Astronomers' histories of astronomy: practices around the Paris Observatory (18th-19th centuries) - 2**

Organisers: Giorgio Matteoli, Matthieu Husson, Christophe Schmit

Chair: Matthieu Husson

Lalande on ancient astronomy and its applications

- John Steele

Historiographical practices in the Encyclopédie: the case of D'Alembert's article "Astronomie"

- Colette Le Lay & Christophe Schmit

Historiography of Astronomy and the Birth of a General Historiography of Science: The Case of Jean-Étienne Montucla

- Giorgio Matteoli

**112 - History of early and modern chemistry**

Spain's scientific policy: the case of Paracelsian knowledge of El Escorial

- Mariana Sánchez

Teaching Industrial Chemistry at the University of Bologna: Institutions, Places and Protagonists. A century-long journey, from the Scuola Superiore di Chimica Industriale (1922-35), to the Facoltà di Chimica Industriale (1936-2012), to the Dipartimento CHIMIND (2012 to today)

- Paolo Zani

Scientific authority in mineral analysis: Heinrich Rose (1795-1864) and Hans Rudolph Hermann (1805-1879)

- Sarah Hijmans

The Chemical Engineer George Standart: A triple agent?

- Vera Dvorackova

**7 - International History of Radical Science Movements - 1**

Organiser: Gerardo Ienna

Chair: Gerardo Ienna

The Radical science movement in the UK

- Zac Bharucha

Radical Science Movement in France

- Renaud Debailly

Counter Cultures of Knowledge and the Social Orientation of Science: German cases and debates 1960-1990

- Sascha Freyberg

### **39 - The Politics of Data, Environments, and Infrastructures - 2**

Organisers: Matthew Adamson & Doubravka Olšáková

Chair: Doubravka Olšáková

The political use of science in the diplomacy of the Scramble for Africa, 1875–1891

- Daniel Gamito-Marques

Ecological Diplomacy between Spain and Saudi Arabia: The protection of birds of prey in a hunters' society

- Sergio Arias

Science, Diplomacy, and Geopolitics at China's Arctic Research Stations

- Trym Eiterjord

'The Domination of the World:' How Physical Environmental Knowledge Became Vital to U.S. National Security and Foreign Policy Aims in the Early 1960s

- Ronald E. Doel

### **24 - Science, Religion and Atheism - 1**

Organisers: Kostas Tampakis & Jaume Navarro

Chair: Kostas Tampakis

Ideological Conflict: Antonio Gramsci on Science, Religion and Italian History

- Neil Tarrant

"Anti-materialist, but pro-science": The construction of a discourse in Turkey, 1890-1950

- Alper Yalcinkaya

Science and Atheism in early twentieth-century Spanish Anarchism

- Jaume Navarro

Discussing the Gender Aspect of the Relationship between Science and Religion/Atheism

- Evangelia Chordaki

**14 - Science policy in Central Europe in the first half of the 20th century in the mirror of correspondence of scientists - 1**

Organisers: Milada Sekyrková & Adéla Jůnová Macková

Chair: Milada Sekyrková

Science policy of the interwar Czechoslovakia in Alois Musil's correspondence. State, orientalism and Orient

- Adéla Jůnová Macková

Reflections on political events in the texts of Bedřich Hrozný

- Šárka Velhartická

Science policy after 1918 in Czechoslovakia: help from abroad, case Aleš Hrdlička

- Milada Sekyrková & Marek Ďurčanský

**17 - Epistemology and Politics in Climate Science – 2. 1970s**

Organisers: Matthias Heymann & Dania Achermann

Chair: Fabian Link

"They have left their cattle and sometimes even their babies": The Moral Climatology of Famine in the 1970s Sahel

- Eleanor Shaw & Robert Naylor

Climate Politics, Climate Denialism, and the Gaia Hypothesis

- Leah Aronowsky

Climate politics as opposed to what? Deconstructing the World Climate Conference of Experts on Climate and Mankind in Geneva, 1979

- Vladimir Jankovic

**21 - Strategies for cultural diplomacy in the countries on the southern periphery of the Western bloc during the Cold War: Greece Portugal, and Spain**

Organisers: Marició Janué i Miret & Albert Presas i Puig

Chair: José M. Pacheco

Rebuilding continuity with the West: Spain's cultural and scientific diplomacy in the Post-war (1945-1959)

- Marició Janué i Miret & Albert Presas i Puig

Tensions and resistance in the scientific diplomacy of the Estado Novo after the Second World War (1945-1974)

- Maria Fernanda Rollo

Portugal's scientific policies in the period 1945-1960: the effect of the end of World War II and the beginning of the Cold War

- Luis Manuel Ribeiro Saraiva

Techno-diplomacy and the making of the Telecom State in Greece from the 1930s to the 1970s

- Yannis Fotopoulos & Stathis Arapostathis

## **28 - Scientific temporalities in the 19th and 20th centuries - 2**

Organiser: Staffan Bergwik

Chair: Staffan Bergwik

The little tools of timing: Co-modifying nature-times with the times of politics

- Kristin Asdal

The Rhythm of Knowledge: René Dubos and the Multiple Temporalities of Science and Society in the 1960s

- Staffan Bergwik

Temporal environing media: the case of the International Geophysical Year 1957-58

- Adam Wickberg

Discussion

## **52 - Expertise in the Low Countries in the Early Modern Period - 2**

Organiser: Maarten Van Dyck

Chair: Steven Vanden Broecke

"Conversing with strangers". Trust, patents, and brokered expertise in the seventeenth-century Dutch Republic

- Marius Buning

Public Affairs: Claiming Mathematical Competence in the Dutch Republic

- Fokko Jan Dijksterhuis

Experts and amateurs at work: observing, depicting, and consuming plants in early modern northern Europe

- Jaya Remond

## **55 - The perils and promises of prediction in science and science policy - 1**

Organiser: Theodore Arabatzis

Chair: Theodore Arabatzis

Who Predicts? Dutch Storm Warnings and the Nature of Weather Forecasting 1860-1920

- David Baneke

Untamable Volcanos: The Place of Non-predictive Sciences in the Public Arena

- Joseba Pascual Alba

Prediction in the Wild

- Alkistis Elliott-Graves

Scientific Uncertainty and Decision Making: The Case of Earthquake Prediction

- Iraklis Katsaloulis

#### **74 - Global animals. The Barcelona Zoo in transnational perspective**

Organiser: Oliver Hochadel

Chair: Oliver Hochadel

Fishy deals: Francesc Darder and intercontinental fish farming around 1900

- Laura Valls Plana

The transnational vision of a Catalan nationalist: Pere M. Rossell i Vilar and the reform of the Barcelona Zoo in the 1920s

- Oliver Hochadel

From Hagenbeck to Hediger: The International Connections of the Barcelona Zoo during Franco's dictatorship

- Miquel Carandell

#### **Saturday 14:00-16:00 - Sessions**

##### **31 - Astronomers' histories of astronomy: practices around the Paris Observatory (18th-19th centuries) -3**

Organisers: Giorgio Matteoli, Matthieu Husson, Christophe Schmit

Chair: Matthieu Husson

Delambre as an historian of astronomy through the lenses of Paris Observatory Archives

- Matthieu Husson

How J. -B. Delambre read and reconstructed the ancient Greek arithmetic

- Xiaofei Wang

Joseph Delambre's Historiography of 'Oriental Astronomy'

- Karine Chemla

## **125 - Distrust of/in science**

COVID-19, Science and the Global South in historical perspective: Bolsonaro and Brazil  
- Marcos Cueto

Scientific Controversies and Conspiracy Hunting in the Covid-19 Pandemic The Case of Hydroxychloroquine  
- Eve Seguin

Tales from the “Transition”: the fabrication of friends and foes in the history of Spanish 20th Century sciences  
- Javier Sierra de la Torre

"Computational reproducibility": origins and contradictions  
- Arianna Borrelli

## **8 - International History of Radical Science Movements - 2**

Organiser: Gerardo Ienna

Chair: Sascha Freyberg

From ‘State’ Science to ‘Peoples’ Science: Science Movements in Post-colonial India (1947-1980)  
- Omprasad

The crucial significance of political influences in the work of the Italian physicist Franco Selleri  
- Luigi Romano

Science and Vietnam: the genesis of a transnational radical science movements  
- Gerardo Ienna

What the contemporary political economy of science can learn from the Radical Science Movements  
- Senthil Babu

## **40 - The Politics of Data, Environments, and Infrastructures - 3**

Organisers: Matthew Adamson & Doubravka Olšáková

Chair: Gordon Barrett

International seismic data centres in the twentieth century  
- Lif Jacobsen

Science Diplomacy and the Italian Communist Party During the Cold War  
- Daniele Cozzoli

The hidden corners of the uranium information clearinghouse: the politics of the International Uranium Geology Information System

- Matthew Adamson

Comment: Sam Robinson

## **25 - Science, Religion and Atheism - 2**

Organisers: Kostas Tampakis & Jaume Navarro

Chair: Kostas Tampakis

Atheism, Religious controversy, Science and Life in the Twentieth Century

- Robert Bud

Science as a weapon against Atheism and Communism: The Christian Union of Scientists and the journal Rays in Greece (1940-1970)

- Kostas Tampakis

Personality cults as a form of new religion in post-Soviet countries

- Katarzyna Jarosz

Enemy at the Gates? The Perception of Atheism and Its Relationship with Science by Greek Orthodox Christian Authors (Early 1930s to 1974)

- Sandy Sakorrafou

## **15 - Science policy in Central Europe in the first half of the 20th century in the mirror of correspondence of scientists - 2**

Organisers: Milada Sekyrková & Adéla Jůnová Macková

Chair: Adéla Jůnová Macková

Science policy in Germany after 1918: The correspondence of Ladislaus von Bortkiewicz

- Annette Vogt

Mathematicians' affinity to complex problems can overcome distance for more than 60 years – correspondence between Josip Plemelj in Georg Faber

- Željko Oset

Jan Łukasiewicz on induction. Based on his letters to Heinrich Scholz from 1943 and 1944

- Gabriela Besler

## **18 - Epistemology and Politics in Climate Science 3 (1980-2020)**

Organisers: Matthias Heymann & Dania Achermann

Chair: Fabian Link

Climate Scientists Assessing Early International Policies on Climate Change: The Case of Bert Bolin (1980-1992)

- Carolina Granado-Torres

Chilean climate scientists' involvement in public policy from a historical perspective

- Cecilia Ibarra

When both sides speak in the name of 'science': What can we learn about representations of science and epistemological norms from climate change scepticism?

- Richard Staley

## **20 - Science, Technology and Education in Socialist Yugoslavia, 1945 – 1990**

Organisers: Maja Korolija & Milica Sekulović

Chair: Vladimir Janković

State and Science: Yugoslav Nuclear Program (1948-1965)

- Maja Korolija & Milica Sekulović

Circulation of PC technologies in Yugoslavia before its break

- Jelena Stanulović

Yugoslavia's Medical Cooperation with Developing Countries during the Cold War

- Vedran Duančić

Comment: Vladimir Janković

## **56 - The perils and promises of prediction in science and science policy - 2**

Organiser: Theodore Arabatzis

Chair: Theodore Arabatzis

The Role of Theoretical Predictions in Designing a Big Science Infrastructure: The case of the Large Hadron Collider

- Grigoris Panoutsopoulos

Technological predictions in astrophysics and cosmology

- Gauvain Leconte-Chevillard

"A minor chemical revolution": Models, predictions and quantum chemical computations as a primary exploratory tool in chemistry

- Stylianos Kampouridis



Foresight in Science Policy: Science, Prediction, and Neoliberalism in British Government

- Jacob Ward

### **63 - Recipes, experiments and the interplay between practice and concept-formation in early modern philosophy**

Organiser: Oana Matei

Chair: Oana Matei

Vegetation, Fermentation, and Digestion. Nehemiah Grew's conceptual vocabulary in "The Anatomy of Plants"

- Oana Matei

Bubbles, bladders and the "folds of matter": enactment and concept formation from Bacon to Boyle

- Dana Jalobeanu

The reception of Jacques Rohault's *Traité de physique* (1671): from Antoine Le Grand to Samuel Clarke

- Ioana Bujor & Mihnea Dobre

Concepts of Experience in Royalist Recipe Collections

- Benjamin Goldberg

### **65 - Religion, Institutions, and Politics in the Cosmological Debates of Early Modern Catholic Countries**

Organiser: Rodolfo Garau

Chair: Pietro Daniel Omodeo

Regiomontanus' Paduan Lecture of 1464, the Byzantine Intellectual Heritage, and the Greco-Arabic Roots of Astronomical Studies in Early Modern Italy

- Alberto Bardi

Astrology and the Meaning of History: Girolamo Cardano and the Roman Inquisition

- Jonathan Regier

Giovanni Battista Riccioli (1598-1671) and the Quest for the Best Astronomical Theory

- Flavia Marcacci

Gassendi vs Morin: Galileanism, Astrology, and Patronage.

- Rodolfo Garau

### **50 - Hospitals, diseases and public health policies – local vs global determinants of healthcare in contemporary history**

Organisers: Isabel Amaral & Monique Palma

Chair: Céline Paillette

Hospitals in northern Portugal in times of epidemic (19th century and first decades of the 20th century)

-Alexandra Esteves

Hospitals: healing, heritage and healthcare policies for society - The case of Porto (20th century)

- Monique Palma

Between the old and the new Manguinhos hospital, from tropical diseases to COVID-19 epidemics – some reflections on scientific politics and heritage

- Renato Gama Rosa Costa, Renata Santos & Giovanna Martire

Hospitals and medical specialties at the health's hill of Lisbon during the 20th century – dialogues between hospitals, diseases, medical knowledge, and scientific policy

- Isabel Amaral

Comment: Celine Paillette

**Saturday 16:30-17:30 – Centaurus round table on Open Access and Open Science**

Organisers: Koen Vermeir and Theodore Arabatzis

In this round table representatives from *Centaurus*, the ESHS, and Brepols will discuss with policy makers the mission of the official journal of the ESHS, its recent transformation into an Open Access journal as well as its prospects for the future, in the context of the broader movement in academia towards Open Science.

**Saturday 17:30-20:00 – ESHS General Assembly**