

Version: 05.09.2024

**Wednesday 4th 09:00 - 14:00**

Registration

Room: Roger de Lluria building entrance

**Wednesday 4th 11:00 - 12:00**

Early Career Scholars Network Meeting

Room: 40.063

**Wednesday 4th 12:00 - 13:00**

Brunch sponsored by the History of Science Institute

room: 30.S Sala d'Exposicions

**Wednesday 4th 14:00 - 14:30**

Welcome

Room: 30.S Auditori Ciutadella

Chairs: Daniele Cozzoli UPF & Oliver Hochadel, CSIC/Institució Milà i Fontanals

**Wednesday 4th 14:30 - 17:00**

**Early career lecture 1**

Room: 30.S Auditori Ciutadella

Chair: Simon Schaffer, Cambridge University

Jenny Bulstrode, University College London, “Material cultures and indigenous knowledges in colonial networks”

**Early career lecture 2**

Room: 30.S Auditori Ciutadella

Chair: Elena Canadelli, University of Padua

Beatrice Falcucci, Pompeu Fabra University, Barcelona “European museums and human remains. Towards an ethical scientific display”

**Early career lecture 3**

Room: 30.S Auditori Ciutadella

Chair: Gemma Cirac, Institut d'Història de la Ciència, Universitat Autònoma de Barcelona

Santiago Gorostiza, Universitat Autònoma de Barcelona/Institut d'Història de la Ciència “Shared battlegrounds: Militarized landscapes and ecocide at the crossroads of History of Science and Environmental history”

**Wednesday 4th 17:00 - 17:30**

Coffee Break

Room: 40 S Pati Roger de Lluria

**Wednesday 4th 17:30 - 19:00**

**1 Ancient Science**

Room: 40.113

Chair: Dario Tessicini, University of Genoa

A State Employing Astrological Information in Governance: The Assyrians

- Aydanur Kocabıçak, Samsun University

Dealing with natural disasters in ancient Greece. Science and technology at the selfless service of humanity

- Sultana Vasileiadou and Ioannis Kakogiannos, University of West Attica

The Evolution of the Usage of Three Kinds of Days in the Indian Calendar and Their Dissemination in China

- Shuhao Li, University of Science and Technology of China (USTC)

**2 Climate sciences framing climate change debates (1/2)**

Room: 40.002

Organiser and Chair: Carolina Granado, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

‘If you could say a little about the implications in as dramatic terms as possible so much the better’: Journal Editors and 1970s Climate Narratives

- Robert Naylor and Eleanor Shaw, Manchester's Centre for the History of Science, Technology and Medicine

Antagonizing the Anthropocene: Climate Science and the competing epistemologies of the American Right

- Iason Zarikos, National and Kapodistrian University of Athens

Policing climate science and policy: death, rebirth and transformation of the demarcation problem

- José Carlos Cañizares Gaztelu, Delft University of Technology

### **3 Cross-cultural Circulations of Shipboard Medicine and Experimental Knowledge in the Early Modern Transpacific World**

Room: 40.105

Organiser: Wim de Winter, KU Leuven

Chair: Mariana Estela Sánchez Daza, KU Leuven

The Transpacific Circulation of Native Asian Botanicals and Medicinals in 18th-century Spanish Shipboard Letters: a case of Experimental Ethnobotany

- Wim de Winter, KU Leuven (online)

Circulation of naturalist knowledge in the early modern Hispanic territories in the Pacific Ocean

- Mariana Estela Sánchez Daza, KU Leuven

Manila's Medicine Monopoly Contract. Medicinal Provision and circulation of Medicines in the Philippines

- Juan Carlos González Balderas, KU Leuven

### **4 Displaying Science and Envisioning Futures in Political Turmoil, 1973-1991 (1/2)**

Room: 40.004

Organiser: Jaume Valentines and Ned Somerville, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Chair: Jaume Valentines, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Making “Scientific Culture”: The Exhibition Catalonia, the Factory of Spain (1985) as a Civic Laborator

- Jaume Sastre-Juan, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Story-Things, Cultural Politics, and the Museum that Never Was: The Case of the Vapor Vell de Sants (1975-1998)

- Ned Somerville, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

## **5 Doing science in hybrid places: scientific infrastructures in extreme environments, 1930s-1980s**

Room:40.006

Organisers: Katja Doose, University of Fribourg; Dania Achermann, University of St. Gallen; Peder Roberts, University of Stavanger

Chair: Vladimir Jankovic, University of Manchester, Centre for the History of Science, Technology and Medicine

Gorbunov Meteorological Station: Science and Colonization in the Pamir, 1932-1958

- Katja Doose, University of Fribourg

The delicate art of matching infrastructure to research in Cold War US Arctic oceanography

- Peder Roberts, University of Stavanger

From field to lab to lab in the field: On the role of infrastructure in the interdisciplinary process of 20-century earth sciences

- Dania Achermann, University of St. Gallen

## **6 Knowledge and Technique in the French and Spanish gas industry until the Great War (ca. 1850-1918): study of technical journals**

Room: 40.008

Organiser: Francesc X. Barca Salom, Universidad Politécnica de Catalunya & Antonio J. Pinto Tortosa, University of Malaga

Chair: Antonio J. Pinto Tortosa, University of Malaga

Gas water, between its role as an alternative and disappointment: the debate in specialised journals

- Francesc X. Barca Salom, Universidad Politécnica de Catalunya

European specialized gas journals: Journal des usines à gaz (1877-1918)

- Mercedes Fernández-Paradas, José J. Luque-García, Antonio J. Pinto Tortosa, University of Malaga

Ink and trench: the technical gas press during the First World War

- José J. Luque-García & Antonio J. Pinto Tortosa, University of Malaga

## **7 Landscapes and Bodies: Ecological Practices, Imagination, and Knowledge**

Room: 40.010

Organiser: Tina Asmussen, Ruhr University Bochum & Pietro D. Omodeo, Ca' Foscari University of Venice

Chair: Monica Azzolini, University of Bologna

Resource Landscapes in Cosmic Ecologies: Resource Extraction and Astrological Calendars in Early Modern Germany

- Tina Asmussen, Ruhr University Bochum

Riverine and Lagoonal Bodies in Early Modern Venice: Ecological Practices, Imagination, and Hydrology

- Pietro D. Omodeo, Ca' Foscari University of Venice

Transforming the Dinarides: Habsburg "Cultivation" Projects, (Inter)nationalism, and the Emergence of Karst Research, 1860–1890

- Johannes Mattes, University of Oslo

## **8 Making “the Present” Present: Managing Time in Modern Earth Sciences**

Room: 40.012

Organiser and Chair: Lachlan Summers, Max Planck Institute for the History of Science

It's Always Now in the International Geophysical Year: The Scientific Production of the Planetary Synchronicity During the Cold War

- Gloria Maritza Gómez Revuelta, El Colegio de México/Universidad de Guadalajara

Deep Time Labscapes: Natural Analogue Studies and the International Atomic Energy Agency, 1950-1990

- Leander Diener, Max Planck Institute for the History of Science

Keeping Time With the Earth in 20th Century Mexico

- Lachlan Summers, Max Planck Institute for the History of Science

## **9 Opportunities and Challenges: Questions on the Application of Digital Humanities in the History of Science (1/2)**

Room: 40.063

Organiser: Rana Brentjes, Max Planck Institute for the History of Science & Jade Norindr, Observatoire de Paris-PSL

Chair: Rana Brentjes, Max Planck Institute for the History of Science

Words and Objects: History of Science in Terms and Images

- Kira I. Kovalenko & Valeria B. Kolosova, Russian Academy of Sciences and European University at St. Petersburg (online)

The Many Names of Creatures: A Network Analysis of the Vocabulary for Animals, Plants and Minerals in Glossaries and Dictionaries across Medieval Eurasia

- Che Jiang, Department of the History of Science, Tsinghua University (online)

Building a computer vision pipeline for historical sources: the EIDA project and the automation of astral diagram edition

- Jade Norindr, Observatoire de Paris

**10 Science and Democratisation Processes in Europe (1/3): Science, Freedom and Democracy**

Room: 40.101

Organiser: Doubravka Olšáková & Jan Surman, Czech Academy of Sciences

Chair: Alexei Lochmatow, University of Erfurt

Imagining Freedom of Science Before and After the World War II

- Jan Surman, Czech Academy of Sciences

Scientists, Activism and Democracy in Eastern Europe before 1989

- Doubravka Olšáková, Institute of Contemporary History, Czech Academy of Sciences

Science and Democratisation Processes in East Central Europe: CERN and East-European Countries

- Luca T. Forgiarini, Utrecht University

**Wednesday 4th 19:00 - 19:30**

Room: 40 S Pati Roger de Lluria

Catalan Society for the History of Science and Technology presentation “Sabers en Acció”

**Wednesday 4th 19:30 - 21:00**

Welcome reception

Room: 40 S Pati Roger de Lluria

**Thursday 5th 09:30 - 10:30**

Room: auditorium Ciutadella

Chair: Dana Jalobeanu

Presidential lecture

Simone Turchetti, University of Manchester, “Mind the Gap! Global Inequality and the History of Science”

**Thursday 5th 10:30 - 11:00 Coffee Break**

40 s Pati Roger de Lluria

**Thursday 5th 11:00 - 13:00 sessions****1 Astronomy and Cosmology in Iberia (1550-1650) (1/2)**

Room: 40.006

Organisers: Miguel Á. Granada, Universidad de Barcelona & José Chabás, Pompeu Fabra University, Barcelona

Chair: Miguel Á. Granada, Universidad de Barcelona

Between Heaven and Earth: Epicurean Cosmology in Pliny, according to the Commentary of Pliny’s Natural History (book II)

- Karine Durin, University of Nantes

Copernicus among astronomers and literati in seventeenth-century Portugal

- Luís Miguel Carolino, Lisbon University Institute: ISCTE-IUL

A lasting legacy. The disciples of Jerónimo Muñoz and the teaching of astrology in the seventeenth century

- Tayra Lanuza-Navarro, Pompeu Fabra University

**2 Climate sciences framing climate change debates (2/2)**

Room: 40.002

Organiser: Carolina Granado, Institut d’Història de la Ciència, Universitat Autònoma de Barcelona

Chair: Floris Winckel, Rachel Carson Center, LMU



Setting the Political Agenda on Climate Change: Advocate Scientists at the Villach and Bellagio meetings, 1987

- Carolina Granado, Institut d'Història de la Ciència, Universitat Autònoma de Barcelona

Latinoamerica in the IPCC: Science and Politics of Climate Change

- Cecilia Ibarra, Universidad de Chile

Climate models and political objectives underestimate climate risk

- Marc Delepouve, Conservatoire national des arts et métiers

### **3 Cultures of Accuracy in Early Modern Mathematics: Precision, Approximation and Correctness**

Room: 40.008

Organisers: Thomas Morel, Bergische Universität Wuppertal; Dalia Deias, EHESS, Centre Alexandre Koyré, Paris

Chair: Colette Le Lay, Centre François Viète

Cultures of Accuracy among Mathematical Practitioners in the Holy Roman Empire

- Thomas Morel, Bergische Universität Wuppertal

Between the project drawing and the construction yard: chasing the interchange of elliptical and oval curves in European architectural texts (16th-19th centuries)

- Paola Magrone, Roma Tre University

The Problem of Binocular Vision and the Limits of Mathematical Modelling in Late Seventeenth-century France

- Antoine Gallay, University of Geneva

Astronomical Observations and the idea of "Esattezza" in the 17th century

- Dalia Deias, EHESS, Centre Alexandre Koyré, Paris

A Technician's Mathematics: The Case of Jost Bürgi

- Damian Moosbrugger, ETH Zürich

#### **4 Soviet Climate Science and its Legacy**

Room: 40.010.

Organiser: Jon Oldfield, University of Birmingham

Chair & Commentator: Katja Doose, University of Fribourg

Soviet climate science: managing and theorising climate change

- Nina Kruglikova, University of Manchester

Budyko, Hecht and the Past Futures of Climate Scenarios

- Vladimir Jankovic, University of Manchester

Soviet climate science and its intellectual legacies

- Jon Oldfield, University of Birmingham

#### **5 Describing reality through mathematical models (1/3)**

Room: 40.012

Organiser: Eleonora Sammarchi, ETH-Zürich & Riccardo Bellé, University of Rome Tor Vergata

Chair: Veronica Gavagna, University of Firenze

Algebra as a model for describing social activities in Arabic and Latin medieval sources

- Eleonora Sammarchi, ETH Zürich

Optics and Euclidean theory of proportion in the works of Francesco Maurolico

- Riccardo Bellé, University of Rome Tor Vergata

Fortunes and misfortunes of geometrization: examples from the history of optics and statics

-Dominique Raynaud, Université Grenoble Alpes

## **6 Displaying Science and Envisioning Futures in Political Turmoil, 1973-1991 (2/2)**

Room: 40.004

Organiser: Jaume Valentines - Ned Somerville, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Chair: Ned Somerville, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

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Displaying automobility futures in the 1970s revolutionary period in Portugal

- M. Luísa Sousa, CIUHCT, Universidade Nova de Lisboa

'US Power? USSR Power? Nuclear Power? No, thanks': Soviet nuclear exhibitions and grassroots sun-powered displays in Portugal after the Carnation Revolution, 1974-1978

Jaume Valentines, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

A Destroyed Exhibition and the Multiple Meanings of Nuclear Fission

- Donatella Germanese, Max Planck Institute for the History of Science

Future Energy Expo-2017 and atomic dreams in Kazakhstan: From the arms race to energy transition

- Saulesh Yessenova, University of Calgary

## **7 From controlled nuclear fusion to fusion energy: Scientific technological, political and environmental histories (1/3)**

Room: 40.154

Organiser: Roberto Lalli, Polytechnic University, Turin

Chair: Roberto Lalli, Polytechnic University, Turin

Fusing Europe from EURATOM to ITER: A network analysis of European techno-scientific cooperation in nuclear fusion research

- Roberto Lalli, Polytechnic University, Turin

Shedding light on a rising star: A survey on the history of nuclear fusion research in Europe

- Adele La Rana, University of Macerata

The potential of a social-epistemological account of the fusion energy research in Europe

- Luca Guzzardi, University of Milan

The Road to ITER: A historical database for identifying key political actors in European fusion research

- Giorgio Matteoli, Polytechnic University of Turin

### **8 Science, Art and Communication**

Room: 40.047A

Chair: Ilaria Ampollini, Università di Milano

Sperm Whales, Wax Sculptures, and Historical Analysis: The Role of Fat Chemistry in Authenticating Artworks in early 20th-century Germany

- Josephine Musil-Gutsch, Ludwig Maximilian University, Munich

Camera, Tachistoscope, and the Unconscious: Toward a New Science of Art

- Sofia Michel, University of Göttingen

Forgotten half of humanity: the overlooked role of women in shaping Western science communication

- Isabel Richards, The Australian National University, Canberra

### **9 How Computing Influenced our Understanding of the World: Scientific Communities as Communities of Computing (1/3)**

Room: 40.109.

Organisers: Helena Durnová, Masaryk University, Brno; Ulf Hashagen and Rudolf Seising, Deutsches Museum and LMU Munich

Chair: Rudolf Seising, Deutsches Museum

Scientific Communities as Communities of Computing? Some Problems in History of Science and Computing

- Ulf Hashagen, Deutsches Museum, Munich

Communities of Programming (Programming languages and the emergence of different communities of computing)

- Amelie Mittlmeier, Ludwig-Maximilian-Universität, Munich

“Those interested should be informed”: computing for science in Brno in the 1960s

- Helena Durnová, Masaryk University, Brno

Technological Determinism and the Eye of the Painter: Building an Automatic Cartography System to Overcome ASCII Maps' Drawbacks (France, 1962-1980)

- Edgar Lejeune, Centre Alexandre Koyré, CNRS, Paris

## **10 Imperial Science and Global History**

Room: 40.113.

Chair: Kamlesh Mohan, Panjab University

The Lop Nor 'Problem': Imperial Science and Debates over Climatic Stability and Change on the Silk Roads

- Lachlan Fleetwood, Ludwig Maximilian University, Munich

(Dis)locating Commodity Chains: Medicinal Plants from the Extractive Peripheries of the West to the Factories of the German Empire (1884-1945)

- Matti Leprêtre, EHESS-Ecole des hautes études en sciences sociales

Connecting Through Technology: Building a Colonial Analogy Between Birds' Nests and Human Dwellings

- Matthew Holmes, University of Stavanger

Dependency theory and global histories of science: a critical reappraisal

- Maurizio Esposito, University of Lisbon

## **11 Ontologies, transits, displacements in 20th Century Sciences and Technologies (1/2)**

Room: 40.152.

Organiser: Ana Romero de Pablos, Instituto de Filosofía, CSIC, Madrid

Chair: María J. Santesmases, Instituto de Filosofía, CSIC, Madrid

Reframing Disease Identities in Late Modern Medicine

- Lara Keuck, Bielefeld University

Global and regional scales

- Soraya de Chadarevian, University of California, Los Angeles

Transparent Glass and Crystal, Enduring

- Miguel Ángel Rego Robles, Universidad Europea / Escuela Universitaria de Artes  
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## **12 Opportunities and Challenges: Questions on the Application of Digital Humanities in the History of Science (2/2)**

Room: 40.063.

Organisers: Rana Brentjes, Max Planck Institute for the History of Science & Jade Norindr, Observatoire de Paris-PSL

Chair: Jade Norindr, Observatoire de Paris-PSL

Questioning the participatory dimension of the link between libraries and museums collections thanks to a Citizen science project

- Rossella Baldi & Lukas Heinzmann, Université de Neuchâtel and Universität Bern

Cooperation and its contradictions in DH projects in HoS

- Rana Brentjes, Max Planck Institute for the History of Science

## **13 Science and Democratisation Processes in Europe: Forecasting Democracy and Sovereignty (2/3)**

Room: 40.101.

Organiser and Chair: Doubravka Olšáková & Jan Surman, Czech Academy of Sciences

A 'Democratic' Intelligence and an 'Intelligent' Democracy: Making 'Scientific' Virtues Political in Central and Eastern Europe, 1870s – 1920s

- Alexej Lochmatow, University of Erfurt

Studies between Enemy Surveillance and Science Diplomacy: an Episode from Eastern and Western Germany, 1970s–1990s

- Friedrich Cain, University of Vienna

Forecasting Democracy

- Luboš Studený, Czech Academy of Sciences

### **Thursday 5th 13:00 - 14:00 Lunch**

Room: 40.002.

Women and Gender in Science

Room: 40.004.

Stand - Early Career

### **Thursday 5th 14:00 - 16:00 sessions**

#### **1 Astronomy and Cosmology in Iberia (1550-1650) (2/2)**

Room: 40.006.

Organisers: Miguel Á. Granada, University of Barcelona & José Chabás, Pompeu Fabra University, Barcelona

Chair: Miguel Á. Granada Universidad de Barcelona

The Translation into Castilian of Ptolemy's Almagest by Juan Bautista Vélez

- José Chabás, Universitat Pompeu Fabra. Presented *in memoriam* by Miguel Ángel Granada.

The Construcción Matemática of Juan Bautista Vélez and its Transcendence in the History of Astronomy in Spain

- Félix Gómez Crespo, independent researcher

Celestial Knowledge in Transit: Diagrams of (the End of) the World in Iberian-American Repertorios de los tiempos

- Sergio Orozco-Echeverri, Instituto de Filosofía, Universidad de Antioquia

Round table with the chair and all the speakers in the two sessions or panels.

## **2 Creating the useful animal. Acclimatisation in the Spanish-speaking world and beyond (1/2)**

Room: 40.002.

Organiser: Oliver Hochadel, Institució Milà i Fontanals, CSIC, Barcelona

Chair: Miquel Carandell, Institut d'Història de la Ciència, Universitat Autònoma de Barcelona.

Sheep Mercantilism: Genetical Capital as a National Resource in Eighteenth-Century Europe

- Jens Amborg, Uppsala University

At the limits of biology: Acclimatization and Hybridization in the zoological collections of Madrid in the nineteenth century

- Nuria Benítez Prián, Universidad Complutense de Madrid

Glamorous feathers for the metropolis. Promises and realities in the acclimatisation of the ostrich (1854-1914)

- Laura Valls, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

## **3 Data, satellites and environmental knowledge (1/2)**

Room: 40.004.

Organiser and Chair: Gemma Cirac-Claveras, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència



The making of the Sea Surface Temperature: the Earth Resource Satellite and its payload Along Track Scanning Radiometer as scientific objects

- Hèctor Isern, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Representing the Landsat Image Mosaic of Antarctica as an aesthetic and scientific object

- Amelia Urry, University of Cambridge

Crafting the European Climate Narrative Using Satellite Data

- Grigoris Panoutsopoulos, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

The ESRO Origin Story of European Environmental Data, 1967-1975

- David Skogerboe, Utrecht University

#### **4 Describing reality through mathematical models (2/3)**

Room: 40.012.

Organiser: Eleonora Sammarchi, ETH Zürich & Riccardo Bellé, University of Rome Tor Vergata

Chair: Riccardo Bellé, University of Rome Tor Vergata

Governing the waters: the activity of Teodoro Bonati as mathematician and experimenter in Ferrara

- Maria Giulia Lugaresi, Università degli Studi di Ferrara

The role of models in the early development of non-Euclidean geometries

- Alberto Cogliati, Università di Pisa

Rashevsky's early development of mathematical biology: the significance of mathematical "paper and pencil" models

- Tinne Hoff Kjeldsen, University of Copenhagen

#### **5 From controlled nuclear fusion to fusion energy: Scientific technological, political and environmental histories (2/3)**

Room: 40.154.

Organiser: Roberto Lalli, Polytechnic University, Turin

Chair: Barbara Hof, University of Lausanne

A tale of two systems: Contributions to laser fusion research in the two Germanies  
1972-1991

- Johannes-Geert Hagmann, Deutsches Museum, Munich

The Next European Torus NET as the ancestor of ITER

- Werner Gulden, Stuttgart University

A Very Long Way to New Energy (1987-2035?): The ITER Project from the Cold  
War...to a New World Order?

- Stefano Salvia, University of Pisa

## **6 Healthcare, diagnosis and socio-political decisions**

Room: 40.008.

Chair: Jon Arrizabalaga, Milá y Fontanals Institute on Humanities Research-Spanish  
National Research Council (IMF-CSIC), Barcelona

Responding to the challenge of humanization in Healthcare: Let's be healthcare  
professionals from day one

- Rafaela Domínguez Vilaplana, Complutense University of Madrid

Tell Tale Toes: Neurology, Surrealism, and Knowledge of the Body

- Jasmina Karabeg, University of British Columbia

The challenges of research on rare diseases in Spain during the late-Francoism and  
the transition to democracy: the case of lysosomal storage diseases

- Raúl Velasco Morgado, University of Salamanca

## **7 How Computing Influenced our Understanding of the World: Scientific Communities as Communities of Computing (2/3)**

Room: 40.109.

Organisers: Helena Durnová, MU Brno; Ulf Hashagen and Rudolf Seising, Deutsches Museum and LMU Munich

Chair: Ulf Hashagen, Deutsches Museum and LMU Munich

Automatic Proof - an early AI application in the Federal Republic of Germany

- Rudolf Seising, Deutsches Museum, Munich

A new Science? – Computational Linguistics and Artificial Intelligence Research in the Face of Big Data

- Amira Moeding, University of Cambridge

“Chasing the secret of cognition”: Cognitive Science in the Federal Republic of Germany

- Helen Piel, Deutsches Museum, Munich

## **8 Illustrating the Anthropocene with Toxic Histories**

Room: 40.047A.

Organiser: Sofiya Kamalova, Institute López Piñero, University Valencia

Chair: Max Bautista Perpinyà, Université catholique de Louvain

Unraveling the Legacy of DDT in Spain: A Comprehensive Analysis of Production, Utilization, and Societal Implications

- Silvia Pérez-Criado, Institute López Piñero, University Valencia

The ripple effect of particulate matter: air pollution and field transformations of particle toxicology

- Candida Sánchez Burmester, Maastricht University

Glyphosate in the future of chemical sciences

- José A. Chamizo, FQ-IIF, UNAM (México)

## **9 Knowledge Production, Circulation, and Adaptation as Sites for the Construction of National Identity in the PRC**

Room: 40.047C.

Organiser: John Krige, Georgia Institute of Technology, Atlanta

Chair: Karine Chemla, SPHERE (CNRS & Université Paris Cité)

Socialism and local roots of primary healthcare

- Lu Chen, Wellcome Centre for Cultures and Environments of Health, University of Exeter

Flows Interrupted and Diverted: Geopolitics and Science in the 1957-58 International Geophysical Year's 'Western Pacific Region'

- Gordon Barrett, Centre for the History of Science, Technology and Medicine, University of Manchester

From New Jersey to California to Moscow: how a Chinese-born engineer brought U.S. military research to the Soviet Union

- Clément Bonvoisin, SPHERE Laboratory (UMR 7219), Université Paris Cité

U.S. – PRC disputes in the 1990s over the transfer of tacit knowledge and knowhow across the civil military interface

- John Krige, Georgia Institute of Technology, Atlanta

## **10 Ontologies, transits, displacements in 20th Century Sciences and Technologies (2/2)**

Room: 40.152.

Organiser: Ana Romero de Pablos, Instituto de Filosofía, CSIC, Madrid

Chair: María J. Santesmases, Instituto de Filosofía, CSIC, Madrid

From green to gene: the technological frontier of nitrogen fixation and genetic sequencing in 1980s Mexico

- Marco Ornelas-Cruces, National Autonomous University of Mexico; Erica Torrens, National Autonomous University of Mexico; Ana Barahona, National Autonomous University of Mexico

Genetic databanks as tools for family reunion: investigating opaque adoptions in Spain between the military dictatorship and the early days of democracy (1940s-1990s)

- Miguel García-Sancho, University of Edinburgh

Immunoprecipitation tests: exploring the role of emotions, gender, and circulation in their stabilization as technologies for influenza virus identification in Spain (1970-1980)

- Marta Velasco-Martín, Universidad Castilla La Mancha

### **11 Pandemics and environmental control**

Room: 40.063.

Chair: Peder Roberts, University of Stavanger

The quest for alternatives to pesticides: integrated control in the WHO, 1960-2000

- Timothy Sim, University of Cambridge

Zoonotic Pathogenesis: Biomedical and Environmental Genealogies of Disease Transmission

- Sofia Varino, University of Potsdam

Visual Thinking in Times of Crisis: Scientific Representations on Climate Change and Global Pandemics

- Silke Körber, Institute Vienna Circle, University of Vienna

### **12 Physical sciences and their status in the 20th century**

Room: 40.113.

Chair: Simone Turchetti, University of Manchester

Steve Weinberg's early concept of effective theory

- Sebastien Rivat, Munich Center for Mathematical Philosophy, LMU

Indistinguishable elements in the origins of quantum statistics

- Enric Pérez, Universitat de Barcelona

Emergence in Physics: Navigating the Intersections between Science, Society, and Technology

- Núria Muñoz Garganté, Max Planck Institute for the History of Science, Berlin

### **13 Science and Democratisation Processes in Europe: Science, Perestroika, Feminism and Workers (3/3)**

Room: 40.101.

Organiser: Doubravka Olšáková & Jan Surman, Czech Academy of Sciences

Chair: Jan Surman, Czech Academy of Sciences

Socialist Reproductive Medicine? Abortion Reform and the Provision Of Abortion Services in Spain (1970s-1990s)

- Agata Ignaciuk, University of Granada

(Non) Mea Culpa? – Late 1980s' International Attempt at the Resolution of the Conflict Around the Political Abuse of Psychiatry in the USSR

- Anastassiya Schacht, University of Vienna

Working-Class Professional and Science Education within the Hungarian Workers' Movement

- Sára Bagdi, Eötvös Loránd University - Kassák Museum

### **14 Science communication / Science popularization (1/2)**

Room: 40.010

Chair: Jaume Sastre-Juan, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Immersed in science. Magnified representations and the circulation of scientific knowledge (1750-1900)

- Ilaria Ampollini, Università degli Studi di Milano

Educate, Entertain, Popularize. The Popularization of Science in the Italian Protestant Press for Children between XIX and XX Centuries

- Carlo Bovolo, University of Turin

Citizen Vs Professional Science: The Great Tide Experiment's Case

- Tatiana Sokolova, Russian Society for the History and Philosophy of Science

**15 VERITRACE, or, how to find 'traces de la verité' in a sea of ancient wisdom**

Room: 40.144.

Organiser and Chair: Cornelis J. Schilt, Vrije Universiteit Brussels

New Tech in Old Wineskins: NLP, APIs, and the Search for ancient wisdom

- Jeffrey C. Wolf, Vrije Universiteit Brussel

Scientific progress or Edenic restoration? The utopian vision of Francis Bacon's New Atlantis

- Nicolò Cantoni, Vrije Universiteit Brussel

Tracing Stoic Influences on Early Modern Natural Philosophy: A Computational Analysis

- Demetrios Paraschos, Vrije Universiteit Brussels

Named Entity Recognition for Ancient Wisdom Texts

- Eszter Kovács, Vrije Universiteit Brussel

**Thursday 5th 16:00 - 16:30 coffee break**

**Thursday 5th 16:30 - 18:30 Sessions**

**1 Between innovation and control**

Room: 40.152.

Chair: Jenny Bulstrode, University College London

Surveys and property: the Franciscan cadaster and the abolition of serfdom in the Habsburg Empire

- Svit Komel, University of Ljubljana

Freight of earth: vampire agriculture and chemical histories of famine

- Simon Schaffer, University of Cambridge

## **2 Creating the useful animal. Acclimatisation in the Spanish-speaking world and beyond (2/2)**

Room: 40.002.

Organiser: Oliver Hochadel, Institució Milà i Fontanals, CSIC, Barcelona

Chair: Miquel Carandell, Institut d'Història de la Ciència, Universitat Autònoma de Barcelona

Applied Natural History on Display. Barcelona's Museo Zootécnico around 1900

- Oliver Hochadel, Institució Milà i Fontanals, CSIC, Barcelona

Spanish horses for the improvement of the Portuguese breed: the work of the Sociedade Hípica Portuguesa (1911-1974)

- Ignacio García Pereda, University of Lisbon

Acclimatization of elephants in Chilean zoos. Writing an animal history (XIX-XX centuries)

- Carolina Valenzuela Matus, Universidad Autónoma de Chile

Preparing exotic animals for the Barcelona Zoo. Ikunde, "el Centro de Aclimatación y Experimentación Animal" in the Spanish colony of Guinea

- Josep Reyné Vergeli, Institut d'Història de la Ciència, Universitat Autònoma de Barcelona

## **3 Data, satellites and environmental knowledge (2/2)**

Room: 40.004.

Organiser and Chair: Gemma Cirac-Claveras, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Mapping others' green: the Cartographic Institute of Catalonia, SPOT, and the territories of Latin America



- Andrea Álvarez, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

From the satellite to people's homes: The origins of satellite data in TV weather forecasting maps

- Anna Drou, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Critical epistemologies of remote sensing

- Lilian Kroth, University of Freiburg

Monitoring the Mediterranean Sea: observing through simulations, modeling through satellites

- Pablo Lima, Universidad de Sevilla

#### **4 Decolonizing the Past**

Room: 40.101

Chair: Danuta Ciesielska, Institute for the History of Science, Polish Academy of Sciences, Warsaw

Decolonization within the American colonial framework: The pensionado scientists and Filipino science in early 20th century Philippines

- Francisco Jayme Paolo Guiang, Department of History, University of the Philippines, Department of History, The Chinese University of Hong Kong (online)

Decolonising the Rural Thai Mind: Ghosts, Spirits, the Buddha, and Transcultural Psychiatry During the Cold War

- Krittapak Ngamvaseenont, University of Manchester

“The patriarch of the Judeo-Italian intellectuals longing for the embrace with Uncle Sam”: Oswald Veblen and the Italian Refugees

- Erika Luciano, University of Torino, Italy

#### **5 Describing reality through mathematical models (3/3)**

Room: 40.012.

Organisers: Eleonora Sammarchi, ETH Zürich & Riccardo Bellé, University of Rome Tor Vergata

Chair: Eleonora Sammarchi, ETH Zürich

When the proportional model does not work: the problem of points in the Early Renaissance

- Veronica Gavagna, Università degli Studi di Firenze

Two different mathematics? Ratio and proportion in the Renaissance debate on mechanics

- Elio Nenci, Università degli Studi di Milano

From “relation” to “function”: changing notions of ratio and proportionality c. 1700

- Antoni Malet, Universitat Autònoma de Barcelona

## **6 From controlled nuclear fusion to fusion energy: Scientific technological, political and environmental histories (3/3)**

Room: 40.154.

Organiser: Roberto Lalli, Polytechnic University, Turin

Chair: Roberto Lalli, Polytechnic University, Turin

Commentator: Barbara Curli, University of Turin

A bridge to a fusion future: major oil companies and their investments in long-term nuclear fusion projects, 1968-1986

- Michiel Bron, Maastricht University

Fusion valley: The International Thermonuclear Experimental Reactor (ITER) and the territories (2006- 2012)

- Gabriella Rago, University of Turin

## **7 Knowledge and Control**

Room: 40.006.

Chair: Sofia Varino, University of Potsdam

Epidemics and poverty: a relationship of interinfluence. The Oporto case (19th century)

-Tânia Ferreira, Universidade do Minho - Lab2PT, Braga

The night sky and street lighting: A history of nature in the city at the interface of history of science and technology & computer science (Paris, late 18th – 19th c.)

- Benjamin Bothereau, Centre Alexandre Koyré

Considering calendar reform in the 1930's in Portugal

- Vitor Hugo da Rosa Bonifácio, Departamento de Física, Universidade de Aveiro

Designing Systems for People: The Development of Human-Computer Interaction in Britain

- Elisabetta Mori

## **8 How can the History of Natural History Collections help us understand biodiversity?**

Room: 40.008.

Organiser: Luca Tonetti, University of Padua

Chair: Elena Canadelli, University of Padua

Commentator: Nuala P. Caomhanach, New York University

Paul Hermann's Annotated Herbaria: Ethnobotany, Philology, and Botanical Text-Making (c.1675-1750)

- Bettina Dietz, Forschungszentrum Gotha, Universität Erfurt

Plant Hunting in the Library: Conservation between Neglect and Care

- Anna Svensson, Department of History of Science and Ideas, Uppsala University (online)

Achille Forti's Algarium: A History of Travel, Biodiversity and Scientific Objects

- Claudia Addabbo, Botanical Garden, University of Padua

Classifying the Interspecies Relationship: Gallicolous Fungi from the Trotter's Gall Collection at the Botanical Museum of Padua

- Tiziana Beltrame & Luca Tonetti, Department of Historical and Geographic Sciences and the Ancient World (DiSSGeA), University of Padua

### **9 How Computing Influenced our Understanding of the World: Scientific Communities as Communities of Computing (3/3)**

Room: 40.109.

Organisers: Helena Durnova, MU Brno, Ulf Hashagen, Deutsches Museum - LMU, Munich and Rudolf Seising, Deutsches Museum - LMU, Munich

Chair: Helena Durnova, MU Brno

The APE project: The emergence of massive parallel computer from theoretical physics research

- Arianna Borrelli, TU Berlin and Bielefeld University

The electric analog computing roots of biophysics

- Gabriele Gramelsberger, RWTH Aachen

The Computation and the Communities of the Lennard-Jonesium

- Johannes Lenhard, RPTU Kaiserslautern-Landau

Computational chemistry and tensions around software in computational science

- Alexandre Hocquet, Université de Lorraine, Nancy - Archives Henri Poincaré & RWTH, and Frédéric Wieber, Université de Lorraine, Nancy - Archives Henri Poincaré & RWTH.

### **10 Indescribability and the Creation of Atmospheric Knowledge**

Room: 40.113.

Organiser: Fiona Amery, University of Cambridge

Chair: Carolina Granado, Institut d'Història de la Ciència, Universitat Autònoma de Barcelona

'No pencil can draw it, no colours can paint it and no words can describe it': The Aurora at the Limit of Communicable Experience, c.1880

- Fiona Amery, University of Cambridge

The Disappearance of Dragons and Dancing Goats in Times of Solar Minima

- Jinu Choi, Princeton University

Sensing and Making Sense of Snowflakes Before Photography

- Floris Winckel, Rachel Carson Center for Environment and Society

### **11 Non-human animals and medicine**

Room: 40.047A.

Chair: Claire Crignon, Université de Lorraine

Animals in turn of the century medicine

- Jonathan Simon, Université de Lorraine

Relevance and presence of non-human agents in rabies control in the 19th century - a case study from the Iberian Peninsula

- Monique Palma, CIUHCT NOVA

Understanding the Non-human Animal in the Age of the Anthropocene: A Case Study of Modern Broilers in China Since the 1980s

- Yixuan Li, Centre for the History of Science, Technology and Medicine, University of Manchester

Towards a humanities-grounded Planetary health

- Núria Pujol Furelos, University of Groningen

### **12 Regulating Life with the Seasons: Seasonal Knowledge and Practices in Islamic Societies**

Room: 40.047C.

Organiser: Razieh S. Mousavi, Ca' Foscari University of Venice & MPIWG

Chair: Theresa Jäckh, University of Tübingen

Seasonal Changes and Water Management: Tracing Concerns on Water Resources in the Islamic Almanacs (8th–10th c.)

- Razieh S. Mousavi, Ca' Foscari University of Venice & MPIWG

Knowing and Working with the Seasons in a Persian Agricultural Text (c. 1311 CE)

- Riaz Howey, University of Bonn & MPIWG

Travelling through the Seasons: Sea Voyages in the Indian Ocean prior to the 17th Century

- Inês Bénard da Costa, University of Lisbon

### **13 Science communication / Science popularization 2**

Room: 40.010.

Chair: Kristian H. Nielsen, Center for Science Studies, Aarhus University

Globalising Science and Education through the New Educational Fellowship: The Cases of Paul Neményi and Vilhelm Rasmussen

- Mavi Corell Domenech, Florida University in Valencia; Hans Henrik Hjerimitslev, University College South Denmark

NASA's Portrayal of Science, Technology, Humanity and the Earth: Space Science Education for Domestic and Foreign Audiences in the 1960s

- Christina Roberts, University of California, Santa Barbara

Is Formal Logic Exceptional? New Logics for New Sciences in 20th-Century Russia

- Elena Dragalina-Chernaya, National Research University Higher School of Economics, International Laboratory for Logic, Linguistics and Formal Philosophy, Moscow.

### **14 Science Speaks! History of science communication**

Room: 40.063.

Chair: Agustí Nieto-Galan, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

“Let the Public Decide”: Scientific deceptions in the Nineteenth-century United States

- Sarah Baxter, Universitat Autònoma de Barcelona, Institut d’Història de la Ciència

Cafe Scientifique at 25: History, memory, and politics in the Innovation of late twentieth century public science engagement

- Karen A. Rader, Department of History, Virginia Commonwealth University

A 100 years ago at the first Bengal Baby Weeks (1924): Exhibiting 'scientific' motherhood and childcare in colonial Bengal

- Ranjana Saha, Institute of Advanced Studies, University of Turku

### **15 Water and Knowledge, Heaven and Earth. Historical-epistemological from Early Modern Sources**

Room: 40.144.

Organisers: Corinna Guerra, Ca' Foscari University of Venice & Alberto Bardi, Tsinghua University, Beijing

Chairs: Corinna Guerra and Alberto Bardi

Commentator: Pietro Daniel Omodeo, Ca' Foscari - University of Venice

Crane Knee and Dragon Bone: Exploring the transmission of knowledge between astronomical instruments and hydraulic machinery in ancient China

- Zheran Wang, Tsinghua University, Beijing

Dealing with Marine Meteorology from Early Modern to Modern China: An Historical-Epistemological Examination of Dinghai Meteorological Station

- Xiao Liu, Tsinghua University, Beijing (online)

Working on/in Water in Early Modern Venice

- Marie Luise Leonard, Ca' Foscari University of Venice

Water and society in the Basin-Valley of Mexico. Historical alternatives

- Omar Rodríguez Camarena, Ca' Foscari University of Venice

**Thursday 5th 18:45 - 19:45**

Room: Auditorium Ciutadella

Chair: Dana Jalobeanu & Erwin Neuenchwander

Neuenchwander Prize 2024

Karine Chemla, Sphere, CNRS & Université Paris Cité



## **Friday 6th 09:00 - 10:30 Sessions**

### **1 Circulation of Knowledge Through Mathematical Courses (16th - 19th centuries) (1/4)**

Room: 40.002.

Organisers: Mònica Blanco and M. Rosa Massa Esteve, Universitat Politècnica de Catalunya; Davide Crippa, Czech Academy of Sciences, Institute of Philosophy

Chair: Davide Crippa, Czech Academy of Sciences, Institute of Philosophy

The Tratado de Mathematicas by Juan Pérez de Moya

- Fàtima Romero Vallhonestà, Centre de Recerca per a la Història de la Tècnica, & Iolanda Guevara Casanova, Departament d'Educació Generalitat de Catalunya

Departament de Didàctica de la Matemàtica i de les Ciències Experimentals (UAB)

Jesuit origins of comprehensive teaching of mathematics

- Ladislav Kvasz, Institute of Philosophy, Czech Academy of Sciences, Prague

The influence of Viète, Fermat, and Descartes in the Supplement (1642) to Hérigone's Mathematical Course

- Antonio Mellado Romero, Departamento de Matemáticas, Universidad de Murcia;

Antonio Linero Bas, Departamento de Matemáticas, Universidad de Murcia

Experimental mathematics, structural axis for Juan Caramuel's *Cursus*

*Mathematicorum Facultatum*

- David Virgili Correas, Universitat Politècnica de Catalunya

### **2 Engineering the rivers and the sea: interactions between hydraulics and environmental thinking in the early modern period**

Room: 40.010.

Organisers: Jip van Besouw, University of Sevilla; Davide Martino, Cambridge University

Chair: Davide Martino, Cambridge University

Seething Waters: Environmental Affects in Seventeenth-Century Dutch Landscape Drawings

- Sarah Mallory, Morgan Library & Museum and Harvard University

Reckoning with Sea Level Rise in Early Modern Holland

- Jip van Besouw, University of Sevilla

### **3 Looking at the words: Science and Language**

Room: 40.047C.

Chair: Michiel Bron, Maastricht University

Esperanto, Science, and South Asia: Contact Zones of a Universal Language

- Bipasha Bhattacharyya, Department of History, University of Cambridge

Acronyms: A Historical Perspective on a Recent Trend in Scientific Language

- Helge Kragh, University of Copenhagen

Cross disciplinary research on names of stars and constellations - mining databases of science and humanities

- Susanne M Hoffmann, Friedrich-Schiller-Universität Jena

### **4 Material Practices of Chemical Analysis (1/2)**

Room: 40.101.

Organiser: Armel Cornu, Uppsala Universitet; Sarah Hijmans, Technische

Universität, Berlin; Charlotte Abney Salomon, Science History Institute, Philadelphia

Chair: Armel Cornu, Uppsala Universitet

Writing the Experiment. Experimental Practice, Gender, and Materiality in the Lavoisiers' Travel and Laboratory Notebooks (1770s-1780s)

- Francesca Antonelli, Universitat de València, Spain

Dextrine: from fraudulent substitute to fondant essential

- Patrick Charbonneau, Duke University, North Carolina

### **5 Museums and Industry: Long Histories of Collaboration: Science Museums in Transition (1/2)**

Room: 40.213.

Organiser: Harry Parker, Science Museum, London

Chair: Carlos Tabernero Holgado, Universitat Autònoma de Barcelona

‘Science Museums, Commercial Sponsorship, and the Shifting Technologies of Governance in Later Twentieth-Century Britain’

- Scott Anthony, Science Museum, London

Popularizing Technoscience by Display: The Palais de la Découverte and the educational turn of Postwar Science and Technology Museums (1945-1955)

- Thomas Mougey, Université Aix-Marseille

“The nature and art of patronage is subtle and delicate”: The Sainsbury Family as patrons for Food for Thought: The Sainsbury Gallery at the Science Museum, London

- Emily Rees Koerner, Science Museum, London

## **6 The activity of the Iberian mathematicians during the XXth century dictatorships in the Iberian Peninsula**

Room: 40.063.

Organiser: Luis Saraiva, CIUHCT and Mathematics Dept, University of Lisbon; Luis Español González, University of La Rioja, Logroño

Chair: Antoni Malet, Universitat Autònoma de Barcelona

Ruy Luis Gomes and Portuguese mathematics activity during the Salazar dictatorship

- Luis Saraiva, CIUHCT and Mathematics Dept, University of Lisbon

The influence of Julio Rey Pastor on Spanish mathematics during the Primo de Rivera dictatorship and the Second Spanish Republic

- Luis Español González, University of La Rioja, Logroño

PhDs in Mathematics in Spain in the period 1939-1954

- Maria Angeles Martínez Garcia, University of La Rioja, Logroño

## **7 The “Other” Genius: A Historical Approach to Genius, Giftedness, and Gender (1/2)**

Room: 40.004.

Organiser: Victoria Molinari, Andrea Graus, Violeta Ruiz; all Milá y Fontanals Institute on Humanities Research-Spanish National Research Council (IMF-CSIC)  
Chair: Annette Mülberger, University of Groningen

The Manufacture of the Insomniac Genius by Medical Discourses in the 19th Century (France)

- Sophie Panziera, Université Bretagne-Sud, TEMOS Laboratory

*Idiots Savants*: The Medical Construction of the Genius Disabled ‘Other’, c.1850-1950

- Violeta Ruiz Cuenca, Milà i Fontanals Institution, CSIC

Social Status and Gender of Physicians in Medical Obituaries (Catalonia, 1890-1936): Representations of Geniuses or More Cross-Cutting Foci?

- Lluís Coromina Verdager, University of Girona

## **8 Toward a Computational History of Science: The Cultural Evolution of Early Modern Metaphors of Knowledge**

Room: 40.006.

Organiser: Petr Pavlas, Institute of Philosophy, Czech Academy of Sciences; Jo (Georgiana) Hedesan, University of Oxford  
Chair: Cornelis J. Schilt, Vrije Universiteit Brussel

Capturing the Semantic Change of Cultural and Scientific Ideas. A Theoretical Framework for Evolutionary Metaphorology

- Petr Pavlas, Institute of Philosophy, Czech Academy of Sciences

Computational Explorations of Early Modern Metaphors of Knowledge: Diachronic Word Embeddings and Cultural Evolution in Scientific Texts

- Vojtěch Kaše, Institute of Philosophy, Czech Academy of Sciences

Metaphors of Knowledge in the Printed Corpus of Latin Alchemy

- Jo Hedesan, University of Oxford

## **9 Rubber and Plastics**

Room: 40.109.

Chair: Doubravka Olšáková, Institute of Contemporary History, Czech Academy of Sciences

The Metamorphoses of plastic: research and dissemination

- Maria Elvira Callapez, Mariana Galera Soler and Breno Borges, Centro Interuniversitário de História das Ciências e da Tecnologia, Faculdade de Ciências, Universidade de Lisboa; Maria da Luz Sampaio, Centro Interdisciplinar de História, Culturas e Sociedades, Universidade de Évora; Susana França de Sá and Artur Neves, NOVA School of Science and Technology, Campus Caparica

Plastics: A symbol of Progress and Destruction

- Vera Dvorackova, Masaryk Institute and Archives of the Czech Academy of Sciences

## **10 Undergraduate Programmes in HPS, STS, STH (1/2)**

Room: 40.008.

Chair: Xavier Roqué, Universitat Autònoma de Barcelona

Organisers: Xavier Roqué, Universitat Autònoma de Barcelona; Néstor Herran, Sorbonne Université

From 'History and Method of Science' to 'STS': Science and Technology Studies at University College London

- Jon Agar, University College London

Teaching history of science at Sorbonne University

- David Aubin, Sorbonne Université; Néstor Herran, Sorbonne Université

**Friday 6th 10:30 - 11:00 Coffee Break**

**Friday 6th 11:00 - 13:00 Sessions**

## **1 A History of the International Biological Programme (1964-1974)**

Room: 40.012.

Organiser: Mauro Capocci, Università di Pisa; Fabio De Sio, Klinikum  
Heinrich-Heine-Universität Düsseldorf

Chair: Doubravka Olšáková, Institute of Contemporary History, Czech Academy of  
Sciences

Commentator: Soraya de Chadarevian, UCLA

Acclimatising Humans to new and future environments: Physiology and the IBP  
- Vanessa Heggie, University of Birmingham

The National Academy of Science and the making of the IBP  
- Daniele Cozzoli, Universitat Pompeu Fabra

Italian Genetics in the International Biological Program. Giuseppe Montalenti  
between global trends and local traditions  
- Mauro Capocci, Università di Pisa, Fabio De Sio, Klinikum,  
Heinrich-Heine-Universität Düsseldorf

Envoys for mankind. Participation of Soviet space scientists in the Human  
Adaptability section of the International Biological Program  
- Laurence Roche Nye, Université Paris Nanterre - CRPM

## **2 Astrological worldview and astrological practice in Western Islam: sources, techniques and debates**

Room: 40.109.

Organiser: Montse Díaz-Fajardo, University of Barcelona; Cristian Tolsa, University  
of Barcelona

Chair: Julio Samsó, University of Barcelona

Astrology, astronomy and religion in al-Andalus under the Almoravids (first half of  
the 12th century)  
- Miquel Forcada; University of Barcelona

Ibn Abī l-Rijāl on astrological questions

- Montse Díaz-Fajardo & Emilia Calvo; University of Barcelona

A survey of the references to Greek sources in Ibn Abī l-Rijāl's Kitāb al-Bārī'

- Cristian Tolsa, University of Barcelona

Natural astrology across epistemic genres in the early Andalusī tradition

- Theo Loinaz, University of Barcelona

### **3 Children in the History of Medicine**

Room: 40.113.

Chair: Nurit Kirsh, The Open University of Israel

'Moved by feelings, not by doctrines'—Moral and Religious Training of Infants in Early Nineteenth-Century Anglo-American Child Health Discourse

- Elisabeth Yang, University of Leeds

The “Miracle” of Cold Chain: China's First Collaboration with UNICEF

- Yanan Jin, Beijing University

### **4 Circulation of Knowledge Through Mathematical Courses (16th - 19th centuries) (2/4)**

Room: 40.002.

Organiser: Mònica Blanco and M. Rosa Massa Esteve, Universitat Politècnica de Catalunya; Davide Crippa, Czech Academy of Sciences, Institute of Philosophy

Chair: Sandra Bella, Université de Lorraine

Teaching and disseminating mathematical ideas through mathematical courses in Spain in the XVIII century

- M. Rosa Massa Esteve, Universitat Politècnica de Catalunya

The instruction of integral calculus in the Military Course of Mathematics (1753-1756) of Pedro Padilla

- Mònica Blanco, Universitat Politècnica de Catalunya

German mathematical courses in the Habsburg Lands

- Davide Crippa, Czech Academy of Sciences, Institute of Philosophy

The introduction of European mathematics in eighteenth-century Spain through Tomàs Cerdà

- Joaquim Berenguer, Universitat Politècnica de Catalunya

## **5 Cosmic Distances: Ideas and Techniques for Measuring the Celestial Realms in Medieval and Early Modern Times (1/3)**

Room: 40.010.

Organiser: Dario Tessicini, University of Genoa

Chair: Dario Tessicini, University of Genoa

Why did calculating the distances of the planets become a research theme and a compulsory part of Arabic astronomical treatises in the ninth century?

- Guillaume Loizelet, Université Toulouse 3 – Institut de Mathématiques

The function of paper in medieval astronomical tabulation: Iberian peninsula, 11th-13th centuries

- Bosco Garcia, University of California, San Diego

Cosmos and Its Dimension as Outlined in Non-Astronomical Islamic Sources: Ptolemy's Exponents, Skeptics, and Rivals

- Hamid Bohloul, Iranian Institute of Philosophy

Planetary intervals: Plinian and Copernican cosmologies in late-fifteenth-century Padua

- Stefano Gulizia, University of Milan

## **6 Historical Epistemology**

Room: 40.063.

Chair: Lino Camprubí, University of Seville



Epistemic Commitments Have No ‘Off’ Button: On the Embodiment of Commitments by Way of Model Formulation

- Zvi Hasnes Beninson, Tel Aviv University

Historical Critique of Knowledge: Recognition and Misrecognition as Cases of Epistemic Injustice

- Ekaterina Shashlova, Faculty of Humanities, Charles University, Prague

What TMT Cannot See: Scientific Objectivity and Knowledge Prioritization

- Mallory Hrehor, University of Cambridge HPS

## **7 Representing Science: Relics, Collections, and Museums**

Room: 40.006.

Organiser: Paola Bernadette Di Lieto, University of Padua and Ca’ Foscari University of Venice

Chair: Maria Conforti, La Sapienza University of Rome

Commentator: Elena Canadelli, University of Padua

Expertise and Enthusiasm: The Interplay of Knowledge in Prehistoric Studies and Museum Collections in Italy (1870s-1900)

- Fedra Alessandra Pizzato, University of Verona

“Un santuario scientifico”: The Case of the Tribuna di Galileo and Italian Scientific Museology in Nineteenth-century Italy

- Zoe Lauri, University of Bologna

The Anatomy Theatre at the University of Padua: From the Musealisation of the Spaces of the Anatomy School to the Making of a Historical Monument

- Elena Maria Rita Rizzi, University of Padua

A Museum at the Service of History of Science: The View of Maria Luisa Bonelli

- Paola Bernadette Di Lieto, University of Padua and Ca’ Foscari University of Venice

## **8 Material Practices of Chemical Analysis (2/2)**

Room: 40.101.

Organiser: Armel Cornu, Uppsala Universitet; Sarah Hijmans, Technische Universität, Berlin; Charlotte Abney Salomon, Science History Institute, Philadelphia

Chair: Armel Cornu, Uppsala Universitet

Analysis as Evidence – Chemical Expertise in 19th-Century Poisoning Cases

- Marcus Carrier, RWTH Aachen University

Analytical Chemistry for Military and Industrial Safety in the Nineteenth Century  
Explosives Industry

- Ian D. Rae, University of Melbourne

Nineteenth-Century Chemical Analysis and the Discovery of Elements

- Charlotte Abney Salomon, Science History Institute, Philadelphia & Sarah Hijmans  
Technische Universität Berlin

## **9 Museums and Industry: Long Histories of Collaboration: Exhibiting Energy in Twentieth Century Europe (2/2)**

Room: 40.213.

Organiser: Harry Parker, Science Museum, London

Chair: Jaume Sastre-Juan, Universitat Autònoma de Barcelona

The domestication of atomic energy: displaying a model of the Halden nuclear reactor

- Frode Weium, The Norwegian Museum of Science and Technology

Industrial patronage between public and private: atomic energy, British industry, and Expo '58

- Alice Byrne, Université Aix-Marseille

Exhibiting the invisible: corporate patronage of energy displays in Barcelona's science and technology museums (1980s-1990s)

- Miquel Carandell Baruzzi, Universitat Autònoma de Barcelona

Nuclear reactions: patronage, credibility, and the politics of atomic energy exhibitions in late-twentieth century Britain

- Harry Parker, Science Museum

### **10 Of Barren Grounds and Spoiled Milk: How to Address Great Challenges Scientifically, ca. 1700-1820**

Room: 40.154.

Organiser: Caterina Schürch, TU Berlin

Chair: Julia Bloemer, Europa-Universität Flensburg

Advancing Astrological Forecast: Collecting Weather Data for the Benefit of Humanity

- Caterina Schürch, TU Berlin

The Stubborn Persistence of Blue Milk

- Jutta Schickore, Indiana University, Bloomington

The Advancement of Agricultural Practices: Cultivating Tea, Wheat, and Potatoes for the Benefit of Prussia

- Kärin Nickelsen, LMU Munich

### **11 Science Diplomacy: searching for a deeper past (1/3)**

Room: 40.152.

Organiser: Daniel Gamito-Marques, Department of Applied Social Sciences, NOVA-FCT; Lif Lund Jacobsen, Natural History Museum of Denmark

Chair: Dongxin Zou, The Hong Kong Polytechnic University

Catching Rats, Surveying the Plague Pandemic: Rat-Labs and the Emergence of a Global Network of Epidemiological Surveillance (1894-1945)

- Matheus Alves Duarte da Silva, University of St Andrews

From Geneva to Madrid: the international fight against cancer between 1923 and 1933

- Leoncio López-Ocón Cabrera, Institute of History-CSIC, Madrid; Alba Calzado García, Universidad Rey Juan Carlos, Madrid

Sharing strains and knowledge: the establishment of global influenza surveillance

- Giacomo Simoncelli, La Sapienza, University of Rome

## **12 The “Other” Genius: A Historical Approach to Genius, Giftedness, and Gender (2/2)**

Room: 40.004.

Organiser: Victoria Molinari; Andrea Graus; Violeta Ruiz, all Milà i Fontanals Institution, CSIC

Chair: Annette Mülberger, University of Groningen

Degenerate Genius: Intellectual Hermaphroditism in the Work of Carlos Octavio Bunge, Argentina 1900

- Victoria Molinari, Milà i Fontanals Institution, CSIC

The Child Genius: Exhibiting Knowledge and Precociousness in Modern Europe

- Andrea Graus, Milà i Fontanals Institution, CSIC

## **13 Undergraduate Programmes in HPS, STS, STH (2/2)**

Room: 40.008.

Organisers: Xavier Roqué, Universitat Autònoma de Barcelona; Néstor Herran, Sorbonne Université

Chair: Néstor Herran, Sorbonne Université

HPS in science teacher programs – the case of Norway

- Annette Lykknes, Norwegian University of Science and Technology

Science, Technology and Humanities: a new joint degree at the UAB (Barcelona), the UAM and the UC3M (Madrid)

- Xavier Roqué, Universitat Autònoma de Barcelona

Round table with the participants in this two-part symposium

**14 War medicine, transnational humanitarian action, and technological innovation in Spanish armed conflicts, 1870-1950**

Room: 40.144.

Organiser: Jon Arrizabalaga, Milá y Fontanals Institute on Humanities

Research-Spanish National Research Council (IMF-CSIC), Barcelona

Chair: Jon Arrizabalaga, Milá y Fontanals Institute on Humanities Research-Spanish National Research Council (IMF-CSIC), Barcelona

Transnational relief, Humanitarian Law of War, and the international movement of the Red Cross in the Carlist war, 1872-1876

- Jon Arrizabalaga, Milá y Fontanals Institute on Humanities Research-Spanish National Research Council (IMF-CSIC), Barcelona

Rearmament vs. humanitarianism: an international approach to chemical warfare in Morocco's Rif War (1921-1927)

- Francisco Javier Martínez Antonio, Universidad de Zaragoza

International medical aid in the field of hemotherapy during the Spanish Civil War (1936-1939)

- Alejandra de Leiva-Pérez, Milá y Fontanals Institute on Humanities Research-Spanish National Research Council (IMF-CSIC), Barcelona

**Friday 6th 13:00 - 14:00 Lunch**

Room: 40.002.

Stand Commission

Room: 40.004.

ERC - Granting opportunities

Room: 40.008

Presentation of Centaurus Last issue

**Friday 6th 14:00 - 16:00 Sessions**

**1 Alchemy, Pharmacy and Early Modern Medicine**

Room: 40.047A.

Chair: Lauren Kassell, European University Institute

Stones, Salts, and Calculi in Early Modern Medicine and Alchemy

- Elisabeth Moreau, University of Cambridge

Medicinal thermal waters in the early modern Hispanic world. Benefits of the earth and care technics

- Mariana Sánchez, KU Leuven

**2 Bibliographies: production, materiality, circulation, uses (1/2)**

Room: 40.004.

Organiser: Edgar Lejeune, Centre Alexandre Koyré, CNRS; Clément Bonvoisin, SPHERE, CNRS

Chair: Edgar Lejeune, Centre Alexandre Koyré, CNRS

From author lists to databases: the case of medical bibliography in Portugal (17th-21st centuries)

- Hervé Baudry, CHAM-Centro de Humanidades, Universidade Nova de Lisboa

The history behind the Bolzano-Gesamtbibliographie 1804–1999 and the guidelines for its use

- Elías Fuentes Guillén, Institute of Philosophy, Czech Academy of Sciences

The historical bibliography inserted into the tables of contents of Sylvestre-François Lacroix's *Traité du calcul différentiel et du calcul intégral*

- Karine Chemla; SPHERE Laboratory, CNRS, Université Paris Cité

Medieval and Renaissance Historiography in the Mirror of Russian and Soviet Sources Citation in an Italian Specialized Journal

- Dimitri Bayuk; SPHERE Laboratory, CNRS, Université Paris Cité

### **3 Climate, weather and meteorology**

Room: 40.047C.

Chair: Jon Agar, University College London

Has Western science changed Chinese weather? A view from the nineteenth-century

- Xinyue Li, Manchester University

The Origin of Today's Energy Transition: How the Synthesis of Scientific Communities Created Our Climate Protection Strategy

- Benjamin Johnson, Max Planck Institute for the History of Science, Max Planck Institute for Chemical Energy Conversion

Lakes and climate in science and history of science

- Alexandra Rizhinashvili, S.I. Vavilov Institute for the History of Science and Technology of the Russian Academy of Sciences

The Loneliness of the Meteorological Observer: Aqaba, 1947-1948

- Tuvaal Klein, Tel Aviv University

### **4 Circulation of Knowledge Through Mathematical Courses (16th - 19th centuries) (3/4)**

Room: 40.002.

Organisers: Mònica Blanco and M. Rosa Massa Esteve, Universitat Politècnica de Catalunya; Davide Crippa, Czech Academy of Sciences, Institute of Philosophy; Sandra Bella, Université de Lorraine

Chair: Thomas Morel, Université de Lorraine

Teaching l'Analyse des infiniment petits : Reflections of Jean-Pierre de Crousaz (1710-1722)

- Sandra Bella, Université de Lorraine

Malebranche and mathematical analysis in Eighteenth-Century Italy

- Claire Schwartz, Université de Paris Nanterre

How to teach fluxional calculus around 1740 in Great Britain: Maclaurin's course?

- Olivier Bruneau, Archives Henri Poincaré, Université de Lorraine, Nancy

## **5 Cosmic Distances: Ideas and Techniques for Measuring the Celestial Realms in Medieval and Early Modern Times (2/3)**

Room: 40.010.

Organiser: Dario Tessicini, University of Genoa

Chair: Stefano Gulizia, University of Milan

Distance and Proportion: the Problem of the Distance of the Stellar Sphere in the Copernican Cosmology: Rheticus, Brahe, Rothmann, Maestlin, Kepler

- Miguel A. Granada, University of Barcelona

The great cometary divide: comets and parallax in the aftermath of Galilei's *Il*

*Saggiatore* (1623)

- Dario Tessicini, University of Genova

## **6 Instruments and representations in the late modern period**

Room: 40.063.

Chair: Henk Kubbinga, University of Groningen

A Coulomb balance in the showcase

- Júlia García; Joan Manel Hernández; Enric Pérez; Santiago Vallmitjana, all

Universitat de Barcelona

Plateau, Faraday and the Logic of Spectral Motion

- Rod Bantjes, St. Francis Xavier University

The visual regime of a hidden brain iconography. Hans Berger's electroencephalographic explorations

- Carlos Sierra, University of Antioquia



Making the Invisible Visible: The Art of Bringing Out Diagnostic Details in  
Paleontological Photography, 1900–1960

- David Ceccarelli, Roma Tre University

## **7 Knowing, Protecting, and Saving the Earth: Exploring Materials, Earth History, and a Sustainable Future (1/2)**

Room: 40.012.

Organiser: Christopher Halm, Deutsches Museum Munich / University of Regensburg; Marcin Krasnodębski, Instytut Historii Nauki PAN Warsaw; Brigitte Van Tiggelen, Science History Institute

Chair: Ernst Homburg, Maastricht University

Commentator: Annette Lykknes, Norwegian University of Science and Technology

“Une rançon du progrès” in the Early 20th Century French Sciences: Henri Devaux (1862-1956) and Wooden Railroad Tie-Related Pollution

- Benjamin Le Roux, SPH Université de Bordeaux

Making Soil a System: Hans Jenny’s State Factor Model of Soil Formation and the Preservation of California Soils

- Sara Tridenti, Princeton University

“Having no counterparts in nature”: Clarifying the Concept of ‘Nature’ in Public Debate About Chemicals in the Environment Since Silent Spring

- Christian Schnurr, TU Munich / University of Augsburg

## **8 Materiality and Memory in the History of Science**

Room: 40.101

Chair: Ana Cristina Martins, IHC-Polo Universidade de Évora / IN2PAST, Portugal

"Chile tabiche: a story of loss and re-encounter through memory, embodied practices, and community"

- Daniela Sclavo, University of Cambridge

A Felt and Measured Threat: Understanding Material (and Existential) Issues in Natural History Collections

- Elaina Foley, Alexander von Humboldt Stiftung; Yale College

A short-lived legacy of environmental concern at the Geophysical Institute of the University of Coimbra: The challenge for scientific collections

- Pedro Casaleiro, Coimbra Chemistry Centre (CQC) & Geophysical and Astronomical Observatory of the University of Coimbra (OGAUC); Fábio Monteiro, Centre for Earth and Space Research of the University of Coimbra (CITEUC) & Faculdade de Letras da Universidade de Coimbra; Mariana Brum, Centre for Earth and Space Research of the University of Coimbra (CITEUC) & Faculdade de Letras da Universidade de Coimbra

White Fears: Race, Gender, and Savant Self-Fashioning in the 18th c. French Empire

- Meghan Roberts, Bowdoin College, Brunswick; Mathias Valverde, University of Strasbourg

## **9 Medieval Knowledge**

Room: 40.109.

Chair: Erika Luciano, University of Torino, Italy

A study of the stars catalogue in AL-BATTĀNĪ'S ZĪJ

- Mònica Mont, University of Barcelona

Understanding the European adoption of Hindu-Arabic numerals (12th-14th c.)

- Raffaele Danna, European University Institute, Florence

Aspects of Medical Geology in Medieval Andalusian and Moroccan Manuscripts

- Khallaf El Ghalbi, Moulay Ismail University of Meknes

Library Borrowing Registers as a New Tool in History of Science

- Erwin Neuenschwander, University of Zurich

## **10 Replicate, Renew or Innovate? Historiographical Foundations and Methodological Reflexivity for the History of Science (1/2)**

Room: 40.008.

Organiser: Lluís Coromina Verdaguer, Universitat de Girona; Anxo Vidal Nogueira, Universitat de València

Chair: Lluís Coromina Verdaguer, Universitat de Girona

Commentator: Anxo Vidal Nogueira, Universitat de València

Approaches to the History of Tattooing

- Julen Ibarburu Antón, Universidad de Granada

Technology acceptance model as an historical analysis tool: the case of telecommunications in Macaronesian ports

- Rafael Pérez Jiménez; Universidad de Las Palmas de Gran Canaria

Analysing modern epidemics through political and cultural history, in the light of the 1918 influenza pandemic

- Pau Font Masdeu, University of Girona

## **11 Science and the Nation**

Room: 40.113

Chair: Silke Körber, Institute Vienna Circle, University of Vienna

Will science solve everything? The image of science in the forthcoming atomic age in Czechoslovakia 1948–1960

- Michaela Šmidrkalová, Masaryk Institute and Archives of the Czech Academy of Sciences

Science with a Swagger: The AD-X2 Controversy and Scientific Self-Image in Early 1950s America

- Joseph Martin, Durham University

Preserving the Preserved: advanced digitization of the photographic documentation of the First National Exhibition of the History of Science (Florence, Italy, 1929)

- Francesco Barreca, State University of Milan (online)

Scientific Expeditions and National Emotions

- Nurit Kirsh, The Open University of Israel

### **12 Science Diplomacy: searching for a deeper past (2/3)**

Room: 40.152.

Organiser: Daniel Gamito-Marques, Department of Applied Social Sciences, NOVA-FCT; Lif Lund Jacobsen, Natural History Museum of Denmark

Chair : Roberto Lalli, Polytechnic University, Turin

Science Diplomacy, internationalism, and the formation of the International Seismological Association (1895-1922)

- Lif Lund Jacobsen, Natural History Museum of Denmark

The 1919 total solar eclipse. Astronomical encounters as instances of science diplomacy

- Ana Simões, Interuniversity Center for the History of Science and Technology (CIUHCT), University of Lisbon; Maria Paula Diogo, Interuniversity Center for the History of Science and Technology (CIUHCT), NOVA University of Lisbon; Luís Miguel Carolino, CIES, ISCTE – University Institute of Lisbon

Scientific and Diplomatic Objects: The Development of Radiation Instruments in the Inter-War Period

- Aske Hennelund Nielsen, Chair of Science, Technology and Gender Studies, Friedrich-Alexander-University Erlangen-Nuremberg

The Diplomacy of Standardization: How the SUN Commission negotiated standards during the interwar period

- Sara Bassanelli, Northwestern Italian Philosophy Consortium/University of Pavia

### **13 Transmission and adaptation of knowledge and skills**

Room: 40.213.

Organiser: Carole Hofstetter, SPHERE CNRS, SAPRAT, EPHE-PSL; Guillaume Loizelet, Université Toulouse 3, IMT

Chair: Carole Hofstetter, SPHERE CNRS, SAPRAT, EPHE-PSL

From the arithmetic of Diophantus?

- Carole Hofstetter, SPHERE CNRS, SAPRAT, EPHE-PSL

Are the traces of transmission the evidence of a transmission?

- Guillaume Loizelet, Université Toulouse 3, IMT

Pronic: twisted powers

- Arilès Remaki, CNRS-Université Paris Cité (SPHERE)

The Mathematical Induction in the Pensées

- Thibaut Bagory, Université Lyon II (IHRIM); Université Toulouse III (IMT)

## **14 Waves, mountains, oceans and thunderstorms: The study of natural phenomena**

Room: 40.144.

Chair: Floris Winckel, Rachel Carson Center, LMU

Modelling a World of Waves - The Ship Model Towing Tank in Trondheim and the International Circulation of Knowledge, 1930s-1950s

- Thomas Brandt, Norwegian University of Science and Technology

The making of the world's deepest piers - matrix analysis and model testing for seismic design in the Tagus River Bridge project (1959-1962)

- Henrique Oliveira, Institute of Contemporary History - NOVA School of Social Sciences and Humanities

Mountain Multiple: Snow Scientists, Mountain Guides, and State Institutions in Swiss Avalanche Control, 1960-1999

- Lucas Mueller, University of Genève

Ocean Nexus: Science, Data, Governance, & Law

- Sam Robinson, University of York

### **Friday 6th 16:00 - 16:30 Coffee Break**

### **Friday 6th 16:30 - 18:30 Sessions**

#### **1 Bibliographies: production, materiality, circulation, uses (2/2)**

Room: 40.004.

Organiser: Edgar Lejeune, Centre Alexandre Koyré, CNRS, Paris; Clément Bonvoisin, SPHERE, CNRS, Université Paris-Cité

Chair: Clément Bonvoisin, SPHERE, CNRS, Université Paris-Cité

Renaissance Google: The Uses of medical Bibliographies in Early Modern Europe

- Silvia Maria Marchiori, Department of History and Philosophy of Science, Cambridge University

The Global History of Bibliographic Practice in Mathematics

- J.P. Ascher, Michael J. Barany, Jan Vrhovski, University of Edinburgh

Highlighting the epistemological issues of bibliography through the practical problems of building a philosophy of science database: the SIPS case study

- Fabien Ferri, University of Franche-Comté

#### **2 Circulation of Knowledge Through Mathematical Courses (16th - 19th centuries) (4/4)**

Room: 40.002.

Organiser: Mònica Blanco and M. Rosa Massa Esteve, Universitat Politècnica de Catalunya; Davide Crippa, Czech Academy of Sciences, Institute of Philosophy

Chair: M. Rosa Massa Esteve, Universitat Politècnica de Catalunya

The mathematical course Elements of Mathematics by Benito Bails (1731-1797), an original example of the circulation of European scientific knowledge in 18th century Spain

- Domingo Martínez Verdú, University of Murcia

Courses and curricula: two mathematical traditions in mid-18th century Portugal

- João Caramalho Domingues, CMat, Univ. Minho

The Curso Completo de Matemáticas Puras (1827-1828) by José Odriozola

(1785-1864)

- Juan Navarro Loidi, Universidad del País Vasco-Euskal Herriko Unibertsitatea

A Minorcan Mathematical course (1803?): a particular vision on technical education

- Marta Jordi-Taltavull, Institut Menorquí d'Estudis; Santiago Vallmitjana-Rico,

Universitat de Barcelona; Antoni Roca Rosell, Universitat Politècnica de Catalunya

### **3 Early Modern reflections on Nature**

Room: 40.047A.

Chair: Milada Sekyrková, Institute of the History of Charles University and Archive of Charles University in Prague

Giordano Bruno's cosmology

- Eve-Aline Dubois, University of Namur

The Illustrations as Monuments: A Study of the Frontispieces and Title Pages of Early Modern European Planetary Tables and Star Catalogues

- Yiming Gu, University of Science and Technology of China

### **4 Eugenics**

Room: 40.047C.

Chair: Álvaro Girón Sierra, Milá y Fontanals Institution for Research in Humanities - Spanish National Research Council (IMF-CSIC)

Eugenics and social control in post-revolutionary Mexico

- Alicia Villela Gonzalez, Evolutionary Department, UNAM

Miscegenation and the Scientific Support of Portuguese Late Colonialism

- Alexandra Cabrita, Centro Interuniversitário de História das Ciências e da Tecnologia, Faculdade de Ciências, Universidade de Lisboa

From Oxford Embryology to Julian Huxley's Evolutionary Humanism, 1901-1936

- Stefan Bernhardt-Radu, University of Leeds

## **5 “Great scientists” in transnational perspective**

Room: 40.063.

Chair: Antonia Karaisl, Waseda Institute for Advanced Study, Waseda University, Tokyo

Galileo in China between the Seventeenth and Twentieth century: the origin and diffusion of myth about science and religion

- Xu Jun, Tsinghua University

The Myth of Joseph Priestley in America

- John Powers, Virginia Commonwealth University

Le Bel, scientist extraordinary

- Pierre Laszlo

Gernsback's Tesla: How the father of American science fiction published Nikola Tesla's autobiography

- Ivan Flis, University of Rijeka

## **6 Historiography of the human sciences**

Room: 40.010.

Organiser: Annette C. Mülberger, University of Groningen; Lisa Malich, Universität zu Lübeck

Chair: Annette C. Mülberger, University of Groningen

Microhistory yesterday and today: A critical assessment

- Annette C. Mülberger, University of Groningen

Histories of education: historiographic perspectives on educational science, policy and practice

- Christian Lundahl, Örebro University



“He was notorious among the female employees:“ On challenges of avoiding a history of psychological psychotherapy in Germany (1960s-1990s)

- Lisa Malich, Universität zu Lübeck

Human evolution and human history are the same thing”: John Dupré’s claim and the historiography of psychology

- Henderikus Stam, University of Calgary

## **7 Knowing, Protecting, and Saving the Earth: Exploring Materials, Earth History, and a Sustainable Future (2/2)**

Room: 40.012

Organiser: Christopher Halm, Deutsches Museum Munich / University of Regensburg; Marcin Krasnodębski, Instytut Historii Nauki PAN Warsaw, Poland; Brigitte Van Tiggelen, Science History Institute

Chair: Ernst Homburg, Maastricht University

Commentator: Annette Lykknes, NTNU Trondheim

Mandating Greenness: History and Epistemology of Green and Sustainable Chemistry Codifications

- Marcin Krasnodębski, Instytut Historii Nauki PAN Warsaw

Sustaining the Earth: Cold War Transnational Conferences of Women in Science and Engineering

- Graeme Gooday & Emily Rees Koerner, University of Leeds

Sustaining the Moon: The Chemistry Behind Concepts of Lunar Habitation and Cosmic Age

- Christopher Halm, Deutsches Museum Munich / University of Regensburg

## **8 Nuclear Science and the Cold War**

Room: 40.101.

Chair: Daniela Monaldi, York University

Forging Alliances and Building Diplomatic Paths: Thailand's Atomic Diplomacy, Science, Strategy, and Resilience in the Cold War (1950s-1980s)

- Kwanchanok Kittiwaniich, Chiang Mai University

Plutonium's phantoms: The Palomares nuclear accident (Spain, 1966) in the setting of international standards for radiological protection

- Clara Florensa, Milá y Fontanals Institute on Humanities Research-Spanish National Research Council (IMF-CSIC), Barcelona

Miniature Canvases of Nuclear Discourse: Unveiling Cold War Science Communication Through Greek Stamps

- Loukas Freris, Friedrich-Alexander-Universität Erlangen-Nürnberg

## **9 Paraobjects: Writing History through the Margins of Natural History Heritage**

Room: 40.109.

Organiser: José Beltrán, CNRS; Nathalie Richard, Le Mans Université

Chair: José Ramón Marcaida, CSIC, Madrid

Peripheral Heritage as Historical Sources in Natural History Museums: Introductory Notes

- José Beltrán, CNRS

Tied with Wire: The Stability of the Temporary in the Case of Pedro de Angeli's Fossil Mammal Collections, Buenos Aires in the 1840s

- Irina Podgorny, CONICET and Universidad Nacional de La Plata

"CL". About a Tag and Specimens on the Move

- Nathalie Richard, Le Mans Université

## **10 Replicate, Renew or Innovate? Historiographical Foundations and Methodological Reflexivity for the History of Science (2/2)**

Room: 40.008.

Organiser: Lluís Coromina Verdaguer, Universitat de Girona; Anxo Vidal Nogueira, Universitat de València

Chair: Lluís Coromina Verdaguer, Universitat de Girona

Commentator: Julen Ibarburu Antón, University of Granada

Beyond Archives: Unveiling Untold Narratives through Oral History in the History of Science

- Sofiya Kamalova, University of Valencia

Well, Clarice, have the objects stopped screaming? About the possibilities of the material culture as a historical source

- Anxo Vidal Nogueira, University of Valencia

### **11 Science Diplomacy: searching for a deeper past (3/3)**

Room: 40.152.

Organiser: Daniel Gamito-Marques, Department of Applied Social Sciences, NOVA-FCT; Lif Lund Jacobsen, Natural History Museum of Denmark

Chair: Sam Robinson, University of York

Scientific missions and colonial diplomacy: Portuguese expansionist strategies during the early Scramble for Africa, 1877–1890

- Daniel Gamito-Marques, Interuniversity Center for the History of Science and Technology (CIUHCT), NOVA School of Science and Technology (NOVA FCT)

Science, Technology, and Mediterranean Integration/Disintegration: Maritime Infrastructures and Borders

- Lino Camprubí, University of Seville; Ada Ferraresi, University of Seville

Data for fading empires? Sketching the deeper past of research data diplomacy

- Simone Turchetti, University of Manchester

Technical assistance, overseas development and ‘ex-colonial types’: The British Council’s science initiatives in the imperial spheres

- Alice Naisbitt, Centre for the History of Science, Technology and Medicine (CHSTM), University of Manchester

### **12 Science Popularization as Cultural Diplomacy: UNESCO (1946-1953)**

Room: 40.113.

Organisers: Jaume Sastre-Juan, UAB, Barcelona; Andrée Bergeron, Centre Alexandre-Koyré & Muséum National d'Histoire Naturelle, Paris; & Agustí Nieto-Galan, UAB, Barcelona

Chair: Agustí Nieto-Galan, UAB, Barcelona

Science Popularization as Cultural Diplomacy

- Andrée Bergeron, Centre Alexandre-Koyré & Muséum National d'Histoire Naturelle, Paris

Staging International Science for Peace: Science Popularization in Action at UNESCO  
Month 1946

- Thomas Mougey, Aix-Marseille Université

UNESCO as a teacher of norms in science popularization: Science dissemination, cultural diplomacy and global-norm-setting 1945-1955

- Kristian Hvidtfelt Nielsen, Center for Science Studies, Aarhus University; Casper Andersen, School of Culture and Society, Aarhus University

### **13 Scientific instruments**

Room: 40.154.

Chair: Erika Luciano, University of Torino, Italy

Microscopy 1886-1932, a joint venture of Science and Technology

- Henk Kubbinga, University of Groningen

Portable instruments for field measurements

- Santiago Vallmitjana-Rico, Joan Manel Hernández-Ferrás, Enric Pérez-Canals, Departament de Física de la Matèria Condensada, Universitat de Barcelona

Solar Insights: Unravelling the History and Challenges of the Spectroheliograph at the University of Coimbra

- Mariana Brum, Centre for Earth and Space Research of the University of Coimbra (CITEUC), Faculdade de Letras da Universidade de Coimbra; Pedro Casaleiro, Geophysical and Astronomical Observatory of the University of Coimbra, Coimbra Chemistry Centre (CQC); Fábio Monteiro, Centre for Earth and Space Research of the University of Coimbra (CITEUC), Faculdade de Letras da Universidade de Coimbra

#### **14 The sky and Earth in the 18th century**

Room: 40.213.

Chair: Arianna Borrelli, TU Berlin and Bielefeld University

Timekeeping Traditions of Quadrants in Two Cultures

- Enes Tepe, Europa-Universität Flensburg

Celestial Translations: The Transcultural Lives of a Pearl-Inlaid Celestial Globe (c. 1750) in EurAsian Histories of Science

- Sylvia Tongyan Qiu, UCLA

Firing at the Firmament. Thunderstorm Protection Practices in the 18th Century

- Julia Bloemer, Flensburg University

Thunderstorms underground: the interesting case of the “electric earthquake” in the 18th and 19th centuries

- Salvatore Esposito, Università degli Studi di Napoli Federico II

#### **Friday 6th 18:45 - 21:00**

ESHS General Assembly

### **Saturday 7th 09:00 - 10:30 Sessions**

#### **1 Beyond Knabenphysik: Women in the History of Quantum Physics (1/2)**

Room: 40.002.

Organiser: Patrick Charbonneau, Duke University; Margriet van der Heijden, Eindhoven University of Technology

Chair: Patrick Charbonneau, Duke University

Laura Chalk and the Stark Effect

- Daniela Monaldi, York University

Jo van Leeuwen, the other physicist behind the Bohr-Van Leeuwen theorem

- Margriet van der Heijden, Eindhoven University of Technology

Grete Hermann: From Quantum Physics to Ethics and Politics

- Andrea Reichenberger, Technical University of Munich

#### **2 Chemistry and industry in small wars of the 20th century**

Room: 40.012.

Organiser and chair: Javier Martinez-Antonio, University of Zaragoza

Toxic secrets. The making of war gases and drugs in Catalonia's chemical industry during the Rif War

- Javier Martínez-Antonio, University of Zaragoza

Testing toxic chemicals in France and Colonial Algeria during the Algerian War (1954-1962): Business as Usual?

- Etienne Aucouturier, Commissariat à l'énergie atomique et aux énergies alternatives (CEA-Saclay), France

It's All About Chemistry: Alleged Uses of Poison Gas by France against its Colonial Populations During the Rif War and Great Syrian Revolt, 1925

- Aurore Kamichetty, Université de Montréal - Université Paris 1 Panthéon-Sorbonne

#### **3 Communicating medical issues**

Room: 40.047A.

Chair: Jon Arrizabalaga, Milá y Fontanals Institute on Humanities Research-Spanish National Research Council (IMF-CSIC), Barcelona

Education as a means of tackling the mental health crisis? Discourses on the professionalization of psychiatry in nineteenth-century Hungary and the dissemination of psychiatric knowledge

- Janka Kovács, HUN-REN Research Centre for the Humanities, Institute of History

Cholera in Smyrna: Communication Channels and the Knowledge Flow

- Konstantinos-Nektarios Baloutsos, Panteion University of Social and Political Sciences

Medical Associations in the Czech Lands: a Specific Paradigm

- Tereza Kopecka, Charles University

#### **4 Diagnosing disease and disorder**

Room: 40.047C.

Chair: Mauro Capocci, Università di Pisa

The co-production of PTSD

- José Antonio Pérez-Escobar, University of Geneva

The early days of digital computer in medical diagnosis: the cases of Computed Tomography and Pap Test

- Konstantinos Raptis, National and Kapodistrian University of Athens

#### **5 Ecology, Land Management and Horticulture in Early Modern Italy (1/2)**

Room: 40.004.

Chair: Pietro Daniel Omodeo, Ca' Foscari - University of Venice

Organisers: Fabrizio Baldassarri, Ca' Foscari - University of Venice, Monica Azzolini, University of Bologna

Lacking the Benefit of the Air': An Olive Tree-Focused Perspective on Climate in Sixteenth-Century Medici Tuscany

- Anca Delia Moldovan, I Tatti

Knowing the Soil, Knowing the Environment: The Role of Horticultural Knowledge in Early Modern (Philosophical) Botany

- Fabrizio Baldassarri, Indiana University, Bloomington

Experts in Environmental Resources: training and role in the disputes over water and woods management in the State of Milan (1600-1800)

- Matteo Di Tullio, University of Pavia; Martino Lorenzo Fagnani, University of Pavia

## **6 Networks of knowledge transmission in times of crises.**

Room: 40.063.

Chair and organiser: Evangelia Chordaki, National and Kapodistrian University of Athens

Commentator: Jan Surman, Masaryk Institute and Archives of the Academy of Sciences of the Czech Republic

Becoming credible, communicating (un)certainty in times of crisis

- Evangelia Chordaki, National and Kapodistrian University of Athens; Maria Zarifi, National and Kapodistrian University of Athens

Roles and perceptions of publication genres in times of crisis

- Alexander Schniedermann, Deutsches Zentrum für Hochschul- und Wissenschaftsforschung

How a Crisis Expedited Comprehensive Hemophilia Care in Canada

- Fedir Razumenko, University of Calgary

## **7 Science and Religion, Atheism, Secularism: Entangled histories (1/3)**

Room: 40.006.



Organiser: Jaume Navarro, University of the Basque Country; Kostas Tampakis, Institute of Historical Research, National Hellenic Research Foundation  
 Chair: Kostas Tampakis, Institute of Historical Research, National Hellenic Research Foundation

The idea of Life, attacks on religion and the politics of the insurgent early in the 20th century

- Robert Bud, Emeritus Keeper, The Science Museum, London

Afterlife Research and the Double-Edged Sword of Experimental Science

- Bastiaan van Rijn, University of Bern

Two religions in struggle”. Clémence Royer, Charles Darwin and atheism

- Florian Laguens, IPC-Facultés Libres (Paris)

### **8 Styles of Thinking & Doing in the Ecological History of Scientific Knowledge and Practices 1 (1/3)**

Room: 40.008.

Organisers: Matteo Vagelli, Ca' Foscari University of Venice; Joseba Pascual Alba, University of the Basque Country

Chair: Luca Guzzardi, University of Milan

Styles of Scientific Practice: The Importance of Scale

- Theodore Arabatzis, University of Athens

Phlogistic Style of Thinking and Doing” in the 17th and the 18th Centuries

- Matteo Vagelli, Ca' Foscari University of Venice

Investigating Volcanoes. A History of Volcanology as Integrating Styles

- Joseba Pascual-Alba, University of the Basque Country

### **9 The gender of things and spaces in the sciences: Knowledge Production and Practice (1/3)**

Room: 40.010.

Organiser: Brigitte Van Tiggelen, Science History Institute; Maria Rentetzi, Friedrich-Alexander-Universität; Annette Lykknes, Norwegian University of Science and Technology

Chair: Brigitte Van Tiggelen, Science History Institute

Gender and Space in the Colonial Panjab: Marginalization of Subaltern Therapeutics  
- Kamlesh Mohan, Panjab University

Women Scientists and Masculine Spaces in the Production of Climate Knowledge  
- Frank Amico, Florida State University

Gendered Spaces and Robotics Research: Two Case Studies of Two Different Lab Cultures at Carnegie Mellon University, 19980s and 2010s  
- Andrew Meade McGee, National Air and Space Museum, Smithsonian Institution

### **10 Nineteenth and early Twentieth Century Astronomy**

Room: 40.105.

Chair: Hugo Soares, University of Lisbon

Luminous Matter in the Celestial Realm: Studies on Material Conditions of Solar System Bodies in the early 19th Century  
- Janna Katharina Mueller, Cambridge University

Thoughts by (and for) women on their roles in Astronomy (1850-1919)  
- Kaliana Dias de Freitas, University of Aveiro, Universidade Federal do Oeste da Bahia; Vitor Hugo da Rosa Bonifácio, University of Aveiro; João Manuel de Morais Barros Fernandes, University of Coimbra

Capturing the Stars: Women's Networks and the Astronomical Community at Yerkes Observatory, 1900–1930  
- Kristine Palmieri, University of Chicago / IZEA

## **11- Understanding Mushrooms (15th–20th centuries)**

Room: 40.101

Organiser: Barbara Di Gennaro Splendore, Independent Researcher

Chair: Elena Canadelli, University of Padua

Fossil, Urine, Plant, or Stone? Decoding the Stone Fungus in Early Modern Italy

- Barbara Di Gennaro Splendore, Independent Researcher

Mycological Collections as Legacy in Early Twentieth Century Yorkshire

- Nathan Smith, National Museum Wales

### **Saturday 7th 10:30 - 11:00 Coffee Break**

### **Saturday 7th 11:00 - 13:00 Sessions**

#### **1 Beyond Knabenphysik: Women in the History of Quantum Physics (2/2)**

Room: 40.002.

Organiser: Patrick Charbonneau, Duke University; Margriet van der Heijden,  
Eindhoven University of Technology

Chair: Patrick Charbonneau, Duke University

The Spectrum of He<sup>+</sup> as a Proving Ground for Bohr's Model of the Atom: A Legacy of  
Williamina Fleming's Astrophysical Discovery

- Bretislav Friedrich, Fritz-Haber-Institut der Max-Planck-Gesellschaft

Untangling Entanglement History: Early Quantum Contributions of Chien-Shiung  
Wu

- Michelle Frank, Leon Levy Center for Biography

Roundtable discussion with the symposium participants about the historical  
perspective on the persisting challenge of increasing gender diversity in physics.

#### **2 Concepts in the history of biology**

Room: 40.047A.

Chair: Stefan Bernhardt-Radu, University of Leeds

“A good man cannot teach zoology”: Molecular biology and the existential crisis in biology in the 1960s and 1970s

- Apostolos Gerontas, Coburg University of Applied Sciences

Species and Supracategories: The Parallel History of Their Reality

- Demián Missael Muñoz Jiménez, Universidad Nacional Autónoma de México

From the evolutionary past to the future? E.O Wilson, sociobiology and societal challenges, 1968-1975

- Cora Stuhmann, LMU Munich - LMU München

### **3 Dealing with the environment**

Room: 40.152.

Chair: Jon Agar, University College London

Helping to advance environmental monitoring history: engagement in biodiversity recording in Portugal

- Cristina Luís, CIUHCT, Faculdade de Ciências, Universidade de Lisboa

Floods and droughts in the Po basin: a history of land management and risk communication in post-unitary Italy

- Marco Bresadola, University of Ferrara

### **4 Dialogues between Science, Technology, Arts and Literature (1/2)**

Room: 40.101.

Organisers and chair: Ana Cristina Martins, IHC-Polo Universidade de Évora / IN2PAST

Archaeology, archaeologists, and bookplates: the Portuguese context

- Ana Cristina Martins, IHC-Polo Universidade de Évora / IN2PAST

Science and Literary Imagination: “Influence” vs. “Correspondence”

- Gi Taek Ryoo, Chungbuk National University, Korea

Eggs and External Wombs: The Persistence of a Fantasy

- Aline Ferreira, Universidade de Aveiro

## **5 Early Modern Cosmology and Astrology**

Room: 40.047C.

Chair: Tayra MC Lanuza-Navarro, Universitat Pompeu Fabra

Cosmological Questions in Central Europe

- Adam Mosley, Swansea University

“É Astrologia, ma non é Astrologo.” John Aubrey’s Brief Lives and Astrology

- Jakub Ochocinski, European University Institute

## **6 Ecology, Land Management and Horticulture in Early Modern Italy**

**(2/2)**

Room: 40.004.

Chair: Monica Azzolini, University of Bologna

Building on the Arno: Early modern Florence, Pisa, and Livorno as sedimented cities

- Davide Martino, Universität Bern

Renaissance Architects, Engineers, and Experts Grappling with Climate Change. A case study

- Irene Bevilacqua, University of Bologna

Contested Expertise: The “issue of the Reno” after the Great Flood of Ferrara of 1705

- Monica Azzolini, University of Bologna

## **7 Exploring the mind and human relations**

Room: 40.105.

Chair: Annette Mülberger, University of Groningen

Boundaries and Spaces of Science in Nineteenth-century Explorations of the Mind

- Emese Lafferton, Central European University, Vienna

Worlding Rorschach

- David Bucheli, Universität Basel

Delay of Gratification, Epistemic Sweets, and Race in Cross-Cultural Psychology, 1950–today

- Susanne Schmidt, Humboldt-Universität zu Berlin

The wounded subject: illness narratives in the age of trauma

- Enric Novella, University of Valencia; Inmaculada Hurtado, University of Alicante

## **8 Mathematics and its conceptual frontiers in 20th century Europe**

Room: 40.109.

Chair: Raffaele Danna, European University Institute (Florence)

Aurel Voss on mechanics: A mathematician's view

- Hajime Inaba, Meiji University, Tokyo

Kolmogorov, Lysenko, and mathematics in the life sciences An episode in the Soviet Union (1939-1940)

- Isabella Fascitiello, University of Pavia; Ana Millán Gasca, Università di Roma III

Mathematical Logic: Between Its Global History and Microhistories Alfred Tarski's Cooperation with Heinrich Scholz Based on Their Correspondence

- Gabriela Besler, University of Silesia in Katowice

G. Polya's reception of I. Lakatos' "Proofs and Refutations"

- Miklos Redei, London School of Economics

## **9 Science and Religion, Atheism, Secularism: Entangled histories (2/3)**

Room: 40.006.

Organisers: Jaume Navarro, University of the Basque Country; Kostas Tampakis, Institute of Historical Research, National Hellenic Research Foundation  
 Chair: Kostas Tampakis, Institute of Historical Research, National Hellenic Research Foundation

Darwinism in Greece: The 1980s public dispute and its roots in the past (1930s-1970s)  
 - Sandy Sakorrafou, NHRF

Tracing the Popularization of Anthropogenesis in Polish Science Magazines  
 - Katarzyna Jarosz, The International University of Logistics and Transport in Wrocław

Freethinking, anarchism, materialism and sociability in Barcelona: La Luz (1883-1896)  
 - Álvaro Girón Sierra, Milá y Fontanals Institute on Humanities Research-Spanish National Research Council (IMF-CSIC), Barcelona

“Like another St. Basil”: Astronomy, anticommunism and atheism in 20th century Greece  
 - Kostas Tampakis, Institute of Historical Research, National Hellenic Research Foundation

### **10 Styles of Thinking & Doing in the Ecological History of Scientific Knowledge and Practices 2 (2/3)**

Room: 40.008.

Organisers: Matteo Vagelli, Ca' Foscari University of Venice; Joseba Pascual Alba, University of the Basque Country

Chair: Matteo Vagelli, Ca' Foscari University of Venice

“Styles of reasoning” in evolutionary biology and biomedicine  
 - Silvia De Cesare, Université de Genève; Nicola Bertoldi, UCLouvain; Michele Luchetti, Max Planck Institute for the History of Science

Hacking's styles of reasoning and Kuhn's lexicons. A comparative look

- Constantin Stoenescu, University of Bucharest

A Matter of Style: John Wheeler, a Man for All Seasons

- Stefano Furlan, Max-Planck-Institut für Wissenschaftsgeschichte, Berlin

### **11 The gender of things and spaces in the sciences: Performance and Scientific Personae (2/3)**

Room: 40.010.

Organisers: Brigitte Van Tiggelen, Science History Institute; Maria Rentetzi, Friedrich-Alexander-Universität; Annette Lykknes

Chair: María Jesús Santesmases, Instituto de Filosofía, CSIC, Madrid

The gendering of fan culture

- Annette Keilhauer, Friedrich-Alexander-Universität Erlangen-Nürnberg

Out of the kitchen: Agnes Pockels and the gendering of scientific personae

- Brigitte Van Tiggelen, Science History Institute

The professionalization of nursing, their performance in the public space and the “genderization” of their spaces

- Alba Masramon, University of Barcelona

Gendered Funding: The Rockefeller Foundation and the development of the scientific persona in Brazil (1945-2000)

- Indianara Silva, State University of Feira de Santana (Universidade Estadual de Feira de Santana: UEFS), Brazil

### **12 Visual Practices of Ancient and Mediaeval Astral Sciences (1/3)**

Room: 40.012.

Organisers: Eleonora Andriani, Institut de recherche et d’histoire des textes, Paris; Stefan Zieme, Humboldt-Universität zu Berlin

Chair: Eleonora Andriani, Institut de recherche et d’histoire des textes, Paris



Tabular Formatting as a Tool for Analysis within Babylonian Astronomy

- John Steele, Brown University

Ptolemy's Horizon Diagram in the Greek Manuscript Tradition

- Olivier Defaux, University of Trento

On the Transmission of the Almagest

- Stefan Zieme, Humboldt-Universität zu Berlin

### **13 Women in Scientific Institutes and Universities in Crucial Years in the 20th Century in Central and Eastern Europe (1/2)**

Room: 40.063.

Organisers: Adéla Jůnová Macková, Masaryk Institute and Archives of the Academy of Sciences, Prague; Milada Sekyrková, Institute of the History of Charles University and Archive of Charles University in Prague

Chair: Adéla Jůnová Macková, Masaryk Institute and Archives of the Academy of Sciences, Prague

Reopening of Czech universities in 1945 and the status of female students and teachers there

- Milada Sekyrková, Institute of the History of Charles University and Archive of Charles University in Prague, Czech Republic

Polish female mathematics students in Göttingen before the First World War

- Danuta Ciesielska, Institute for the History of Science, Polish Academy of Sciences, Warsaw

Outstanding female philosophers from Lvov-Warsaw School

- Zofia Hałęza, Szkoła Doktorska Nauk Humanistycznych, University of Lodz

### **14 Theories and Practices of Health, Eugenics, Disability, and Fitness in Transnational Historical Perspective**

Room: 40.113

Organiser: Julia E. Rodriguez, University of New Hampshire

Chair: Julia E. Rodriguez

Constructing Disability in Late Colonial Lima, Peru: Enslaved Petitioners, Medics, and Early Modern Legal Principles

- Adam Warren, University of Washington

Evolutionary Hierarchies of Childhood, Race, and (Dis)ability in Early Anglophone Psychology

- Nicola Sugden, University of Edinburgh

Between Eugenics and Child-rearing: The Uses of the Term Puericulture in International Congresses in Europe (1900–1938)

- François Secco, Uppsala University

### **Saturday 7th 13:00 - 14:00 Lunch**

Room: 40 S. Pati Roger de Lluria.

Business meeting of the ESHS institutional members

Room: 40.039

Editorial Anillo de Sirio - Presentation of the comic book series *Colección Científicos* - *Scientists comics*- presentation with the authors

Room: 40.008

### **Saturday 7th 14:00 - 16:00 Sessions**

#### **1 Dialogues between Science, Technology, Arts and Literature (2/2)**

Room: 40.101.

Chair and organiser: Ana Cristina Martins, IHC-Polo Universidade de Évora / IN2PAST, Portugal

Penning Progress: The Aristocratic Lens of Maria Constança da Câmara on European Science and Technology (1826-1842)

- Pedro Urbano, IHC – NOVA FCSH / IN2PAST

Robert F Kennedy Jr's Contemporary Anti-Vaccination Thriller

- Katherine Shwetz, Rice University

**2 Exploring novel perspectives in science diplomacy: conceptual, narrative, and historiographical innovation (1/2)**

Room: 40.002.

Chair: Grigoris Panoutsopoulos, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Organisers: Matthew Adamson, McDaniel College, Budapest, Hungary; Barbara Kirsi Silva, Universidad Católica de Chile

Southern star showers. Scientific exchange in radio waves between Chile and Australia

- Barbara K. Silva, Universidad Católica de Chile

Space diplomacy and the origins of NASA's activity in Spain

- Óscar J. Martín-García, INGENIO, CSIC–Universitat Politècnica de València; and Pedro Ruiz-Castell, University of València, López Piñero Institute for Historical and Social Studies of Science, Technology, Medicine and Environment

From Adam and Eve to the World Wide Web: Computers and International Data Sharing in Physics and at CERN

- Barbara Hof, University of Lausanne

A dialogue across different viewpoints. Some Cold War stories of Italian scientists concerned about nuclear threats

- Lodovica Clavarino, University of Roma Tre and LUISS

**3 Fading Empires and Conflicting Nation-Building. A Perspective on Science, Technology, Nation, and Statecraft from the European non-colonial peripheries (s. XIX-XX) (1/2)**

Room: 40.105.

Chair: Antoni Roca-Rosell, Universitat Politècnica de Catalunya

Organisers: Francesco D'Amaro, Universidad Autónoma de Madrid; Daniel

Pérez-Zapico, Universidad Autónoma de Madrid

‘We must impel Czech patients to seek out Czech doctors’: Language, Ethnicity and Professional Competition in the Czech Lands before World War I

- Barbora Rambousková, University of Pardubice – Universidad Autónoma de Madrid

State Medicine and the (preventive) Care System in the Habsburg Monarchy in the First Half of the 19th Century

- Tereza Liepoldová, Institute of History of Czech Lands, Faculty of Arts, Charles University, Prague

#### **4 Intersecting Traditions: The Convergence of Digital Humanities and Historical Studies**

Room: 40.047A.

Chair: Ignasi Medà Calvet, La Salle Ramon Llull University

Textual Data and Conceptual Models: Reimagining Historical Scholarship through Digital Humanities

- Simone Ventura, Universtat Pompeu Fabra, Barcelona

Science, Society, Stemmatology: A Natural History

-María Morrás, Pompeu Fabra University

Social and Collaborative Scholarly Editing in the Landscape of Open Science

- David Merino Recalde, Universitat Autònoma de Barcelona

Energy history as data: digital tools for investigating the history of energy production cycles

- Daniel Belteki, Science Museum, London

The New Digital Platform of the Basel Edition of Bernoulli Letters (BEBB) – its Importance for the History of Science and its DH/AI-related Potentials for Development

- Martin H. Kurz, University of Zurich (UZH) / University of Basel

## **5 New Boundaries in Global Science**

Room: 40.109

Chair: Simone Turchetti, University of Manchester

Computational history of chemistry: the case of the chemical space, its expansion and interplay with socio-political effects

- Guillermo Restrepo, Max Planck Institute for the History of Science; Juergen Jost, Max Planck Institute for the History of Science

Psychiatric Epidemiology and the Quest for Global Mental Health

- Alfred Freeborn, Max Planck Institute for the History of Science

## **6 Science in political transitions. The role of the sciences in era changes (1/2)**

Room: 40.004.

Organisers: Max Bautista Perpinyà, Université catholique de Louvain; Judit Gil-Farrero, University of Zaragoza

Chair: Max Bautista Perpinyà, Université catholique de Louvain

The Americanization of English Science: Natural Philosophy and the Founding of the United States

- Paul Rubinson, Bridgewater State University in Massachusetts (USA)

Science and the Communist Transition in the Soviet Union. The Case of Ivan Pavlov

- Eve Seguin, Université du Québec; Laurent-Olivier Lord, Cambridge University

The commodification of blood in Francoist state (1939-1960): Science, Biocapital and resistances

- Cristina Sans-Ponseti, Institut d'Història de la Ciència, Universitat Autònoma de Barcelona

On Psy Scientific Child Experts: Encounters and the (De)Construction of “the African” During Kenya and Uganda’s Transition from Colonial Rule to “Independence”

- Pokuaa Oduro-Bonsrah, The Geneva Graduate Institute

### **7 Styles of Thinking & Doing in the Ecological History of Scientific Knowledge and Practices 3 (3/3)**

Room: 40.008

Organisers: Matteo Vagelli, Ca' Foscari University of Venice; Joseba Pascual Alba, University of the Basque Country

Chair: Roberto Lalli, Polytechnic University, Turin

The Intertwining of Laboratory and Computational Styles in Microbiome Sciences: What Impact on the Design of Experimental Models?

- Sylvain Lallier, University of Paris

Contextualized word embeddings from large language models as a new tool for analyzing styles of thinking and doing?

- Arno Simons, Technische Universität Berlin; Adrian Wüthrich, Technische Universität Berlin; Michael Zichert, Technische Universität Berlin/Universität Leipzig

Hacking and the mathematization of physics

- Lucas Marcelo Cavalari Nardi, University of São Paulo

### **8 The gender of things and spaces in the sciences. Representing, Standardizing and Staging (3/3)**

Room: 40.010.

Organisers: Brigitte Van Tiggelen, Science History Institute; Maria Rentetzi, , Friedrich-Alexander-Universität; Annette Lykknes, Norwegian University of Science and Technology

Chair: Annette Lykknes, Norwegian University of Science and Technology

Hands and Instruments: Gendered Images of Chromosomes

- María Jesús Santemas, Instituto de Filosofía, CSIC, Madrid

Gendered Robots on Display: A Case Study from the Smithsonian's National Air and Space Museum

- Emily Margolis and Matt Shindell, Smithsonian's National Air and Space Museum, Washington, DC, USA

General discussion.

### **9 Visual Practices of Ancient and Mediaeval Astral Sciences (2/3)**

Room: 40.012.

Chair: Stefan Zieme, Humboldt-Universität zu Berlin

Organisers: Eleonora Andriani, Institut de recherche et d'histoire des textes, Paris;  
Stefan Zieme, Humboldt-Universität zu Berlin

Astronomical Diagrams and Illustrations of Instruments in the Greek Manuscripts of Proclus' Hypotyposis Astronomicarum Positionum

- Argyro Lithari, Humboldt-Universität zu Berlin / Berlin Graduate School of Ancient Studies (BerGSAS)

The Codex and the Instrument: describing the Construction and Uses of John of Lignères second Equatorium in Vatican, Biblioteca Apostolica Vaticana, Urb. lat.

1399

- Eleonora Andriani, Institut de recherche et d'histoire des textes, Paris - Matthieu Husson, CNRS, Paris

Imaginary Circles and Physical Orbs: New (?) Ways of Visualizing Planetary Models in Islamicate Astronomy

- Scott Trigg, Observatoire de Paris-PSL

## **10 Women in Scientific Institutes and Universities in Crucial Years in the 20th Century in Central and Eastern Europe (2/2)**

Room: 40.063.

Chair: Milada Sekyrková

Organisers: Adéla Jůnová Macková, Masaryk Institute and Archives of the Academy of Sciences, Prague; Milada Sekyrková, Institute of the History of Charles University and Archive of Charles University in Prague

Network and Women in the Institutes of Academy of Sciences. Women and Oriental studies in the crossroads of the 20th century

- Adéla Jůnová Macková, Masaryk Institute and Archives of the Academy of Sciences, Czech Republic

Women archaeologists in the crucial years of the 20th century

- Marcela Starcová, Institute of Archaeology of the Academy of Sciences, Czech Republic

What if?

- Željko Oset, ASEF – Ljubljana, American Slovenian Education Foundation / ERC project SOVEREIGNTY

### **Saturday 7th 16:00 - 16:30: coffee break**

### **Saturday 7th 16:30 - 18:30 Sessions**

#### **1 Exploring novel perspectives in science diplomacy: conceptual, narrative, and historiographical innovation (2/2)**

Room: 40.002.

Chair: Grigoris Panoutsopoulos, Universitat Autònoma de Barcelona, Institut d'Història de la Ciència

Organisers: Matthew Adamson, McDaniel College, Budapest; Barbara Kirsi Silva, Universidad Católica de Chile

Regional approaches to the development of chemistry in Asia



- John Webb, Tom Spurling, Greg Simpson, and Bopha Roden, Swinburne University of Technology, Melbourne

Diplomacy for Science and the scientization of the Water, Energy, and Food Nexus framework

- Julian Prieto and David Baker, Penn State University

Australia and Indonesia: the role of science diplomacy in building new industries and alliances

- Tom Spurling, Greg Simpson, Bopha Roden and John Webb

Data central clearing house for the world? The IAEA, data, and global nuclear history

- Matthew Adamson, McDaniel College/Corvinus University, Budapest

**2 Fading Empires and Conflicting Nation-Building. A Perspective on Science, Technology, Nation, and Statecraft from the European non-colonial peripheries (s. XIX-XX) (2/2)**

Room: 40.105.

Chair: Antoni Roca-Rosell, Universitat Politècnica de Catalunya

Organisers: Francesco D'Amato, Universidad Autónoma de Madrid; Daniel Pérez-Zapico, Universidad Autónoma de Madrid

The Battle for the Spas: National and Class Conflict in Spa Treatment and Tourism in the 19th and 20th Centuries in the Czech Lands

- Vladan Hanulík, University of Pardubice

Professionalism in Medicine and Political Engagement during the Late Ottoman Era

- Ceren Gülser İlikan Rasimoglu, Acibadem Mehmet Ali Aydinlar University, Istanbul

The Telegraphic Connections of the 'Model Kingdom of the East': European Identity and Infrastructures in Greek Political Discourse in the Nineteenth Century

- Elati Pontikopoulou-Venieri, European University Institute

Public Works, Regeneration and the Struggle for Authority within Spanish Engineering Communities

- Francesco D'Amato, Universidad Autónoma de Madrid; Daniel Pérez-Zapico, Universidad Autónoma de Madrid

### **3 Gender and sexuality**

Room: 40.006.

Chair: Demián Missael Muñoz Jiménez, Universidad Nacional Autónoma de México

Hidden Figures? Women's Knowledge and Work in Early Modern Mining

- Gabriele Marcon, University of Vienna

'My body, my choice. Their science': Female Technologists and Oral Contraceptives in Australia, 1961 to 1991

- Natasha Szuhán, Australian National University

### **4 (Global) knowledge networks**

Room: 40.010.

Chair: Oliver Hochadel, Institució Milà i Fontanals, CSIC, Barcelona

Excavation Networks 1800 / 1900

- Felix Lüttge, University of Basel - German Historical Institute London

KNOW.AFRICA - KNOWledge networks in 19th-century AFRICA

- Sara Albuquerque, IHC - University of Évora - IN2PAST

Networking Environmental Research. Unesco's Man and the Biosphere Programme Between the Local and the Global

- Philipp Kuster, Rachel Carson Center, München

### **5 Invisible knowledge – invisible labour**

Room: 40.109.

Chair: Mariana Sánchez, KU Leuven

Maya Kitchen gardens: an archival bastion of domestic knowledge

- Olin Moctezuma Burns, University of Cambridge

The 'boys' of Buitenzorg: Indigenous botanical experts and scientific expeditions in the Dutch East Indies (1890-1940)

- Sjoerd Kompier, Leiden University

Invisible narrative tweakers? On the hidden role of Austrian and Romanian academic institutions in shaping artificial radioactivity histories

- Daniela Dandes, Centre for the History of Science, Technology and Medicine, University of Manchester

## **6 Limit and definition issues in miscellaneous perspective**

Room: 40.113.

Chair: Sara Bassanelli, Northwestern Italian Philosophy Consortium/University of Pavia

Merging Science with Religion. The "Lezioni elementari di Fisica Terrestre" by Angelo Secchi (1879)

- Francesco Vezzani, Università degli Studi di Trieste - Università degli Studi di Udine /EHESS

The Naturalism-Antiquarianism in the Kingdom of Naples. Archaeological and Geological Discourses and Anxieties in the Travel Writings of Lazzaro Spallanzani (1729-1799)

- Gennaro Ambrosino, University of Warwick

## **7 Mechanisms and Forms of Women's Invisibility in Astronomy**

Room: 40.152.

Chair: Brigitte Van Tiggelen, Science History Institute, Philadelphia

Organiser: Eva Kaufholz-Soldat, University of Koblenz

'The Favor not to be Named': Gender Stereotypes in the Practice of Astronomy (1753-1814)

- Isabelle Lémonon-Waxin, Cermes3, Centre François Viète

Letters, Stars, and Photography: The Visual Languages of British Popularization of Astronomy (1834-1910)

- Madelyn Hernández, University of Valencia

1919, the French Bureau des longitudes requests better salaries for women calculators

- Colette Le Lay, Centre François Viète

Men as enablers of women's careers in astronomy from the 19th century onwards

- Eva Kaufholz-Soldat, University of Koblenz

## **8 Science in political transitions. The role of the sciences in era changes (2/2)**

Room: 40.004.

Chair: Judit Gil-Farrero, University of Zaragoza

Organiser: Max Bautista Perpinyà, Université catholique de Louvain; Judit Gil-Farrero, University of Zaragoza

Protected natures and expertise in transition. Spain, 1970-1985

- Judit Gil-Farrero, Universidad de Zaragoza

Forest, and its understanding, in Transition. Spain, 1970-2000

- Iñaki Iriarte-Goñi, Universidad de Zaragoza

Databases, draught, Catalan nationalism and European scientific environmentalism in the Spanish democracy (1988-2004)

- Max Bautista Perpinyà, Université catholique de Louvain

Climate science for or in socio-ecological transition? Mapping the scientific and political trajectories of French climate scientists (1990-2023)

- Hannah Gautrais, École Normale Supérieure de Lyon

## **9 Testing the Limits of the Gendered Body: Extreme Corporeal Experiences in Modernity**

Room: 40.047C.

Chair: Mònica Balltandre Pla, IHC-UAB

Commentator: Agustí Nieto-Galan, IHC-UAB

Organiser: Mònica Balltandre Pla and Elena Serrano Jerez, IHC-UAB

'Martyrs' in Life and Death: Extreme Corporeal Experiences and Hagiographic Propaganda in the Mariana Islands during the Late 17th Century

- Enrique Moral de Eusebio, Institut d'Història de la Ciència, UAB/UPF

Debating Women's Sanctity through the Use of the Body: Devout Waxes vs Miraculous Relics in 18th century Bologna

- Laura Guinot Ferri, Universitat de València

On the Gendered Ape: The Case of Madame Chimpanzee, Representative of the Bourgeois Female Ideal of the 18th Century

- Rubén Gómez-Soriano, UNED/UAB

## **10 Visual Practices of Ancient and Mediaeval Astral Sciences (3/3)**

Room: 40.012.

Chair: Stefan Zieme, Humboldt-Universität zu Berlin

Organisers: Eleonora Andriani, Institut de recherche et d'histoire des textes, Paris; Stefan Zieme, Humboldt-Universität zu Berlin

The Places of the Sun, Mercury, and Venus: Diagrammatic Innovation in Ancient, Medieval, and Renaissance Planetary Order

- James Brannon, Independent Scholar (Phoenixville, PA)

Outer Space meets Heavens Above: Representations of the Empyrean Heaven from Medieval to Early Modern Times

- Antonia Karaisl, Waseda Institute for Advanced Study, Waseda University, Tokyo

From Schema to Art: Technical Diagrams & Symbolic Iconography in Late Medieval and Early Modern Astrological Texts

- Luís Campos Ribeiro, Centro Interuniversitário de História das Ciências e da Tecnologia (CIUHCT)

The Dissemination and Influence of Western Astronomical Diagrams during the Late Ming and Early Qing China

- Chen Ji, SYRTE, Observatoire de Paris-PSL, University of Science and Technology of China