XXIII International Congress of History of Science and Technology

Ideas and Instruments in Social Context

PRELIMINARY PROGRAM

28 July – 2 August 2009, Budapest, Hungary

Sponsors:
Detailed Programme of Regular Sessions

T02 Classical and Oriental Antiquity

Tuesday, 28 July, 11.30 – 13.30  
Chair:

A Prehistoric Gnomon  
*J. Samuel Cornelius, George Abraham*

Accounts of Living and Dying in Aristotle’s De Long. and De Juv.  
*K. Bemer*

The Interaction of Mathematical and Physical Astronomy in Antiquity: The Earth-Sun Distance in Ptolemy’s Astronomy and Cosmology  
*Christian C. Carman*

Planetary Models as Expounded by Nilakantha in Aryabhatiya-bhashya  
*Kasi Viswanatha Sarma Upadhyayula*

Tuesday, 28 July, 15.00 – 17.00  
Chair:

Computation of Lunar Eclipse in Indian Astronomy  
*Dinesh Mohan Joshi*

Early Greek Mathematics and Thales Geometry: A Plausible Reinstatement  
*Dimitrios Patsopoulos*

Susruta: The Sage-surgeon of Ancient India & His Surgical Instruments  
*Amarnath Thakur*

Greek Paradoxography: The Beginning of Popular Science in the Hellenistic World, between Entertainment and Social Prestige  
*Irene Pajón Leyra*

Tuesday, 28 July, 17.30 – 19.30  
Chair:

The Three- and Four-line Locus in Apollonius's CONICA: Geometry and Algebra  
*Sabetai Unguru, Michael N. Fried*

Analysis and Discovery: The Babylonian Mathematics in the Light of the Euclidean Data  
*Piedad Yuste*

Indian Astronomy and Inscriptions  
*Subbarayappa V Bidare*

T03 Arabic and Islamic World

Wednesday, 29 July, 09.00 – 11.00  
Chair:

View on the Classification of Animals by Al-Jâhiz (776-868)  
*Meyssa Ben Saad*
The Correlation between Local Culture & Public Spaces along the History of Islamic Cities (Case Study, Loft Port, Qeshm Island)
Mehri Mohebbi, Amir Saeed Mahmoodi

The Experimental and Instrumental Contexts of Early Arabic Optics
Elaheh Kheirandish

Trees of Knowledge: Generic Templates for Al-Farabi's "Enumeration"
Lydia S. M. Wilson

Wednesday, 29 July, 11.30 – 13.30
Chair:

Combinatorial Problems on Chessboard from 11th Century Iran
Mohammad Bagheri

Ghāzān Khān’s Innovations of the Astronomical Instruments
Seyyed Mohammad Muzaffari, Georg H. Zotti

A Comparison between the Optical Doctrines of Ibn al-Haytham (Alhazen) and Ibn Sīna (Avicenna) by Kamāl al-Dīn al-Fārisī
Maryam Farahmand

Traces of Mathematical Historiography in Islamic Mathematical Works
Younes Karamati

Thursday, 30 July, 15.00 – 17.00
Chair:

Texts, Instruments and Learning in the 14th Century Maghrib. The Sine Quadrant as a Didactical Resource
Maravillas Aguiar Aguilar

Prediction via Numbers and Letters
Hosein Roohoullahi

A Comparative Study of Qūṭb al-dīn Shirāzī’s Models on the Configuration of the Outer Planets
Kaveh F. Niazi

Planetary Model of Qutb al-Din Shirazi for Superior Planets
Amir Mohammad Gamini

Thursday, 30 July, 17.30 – 19.30
Chair:

The Integration of Philosophy, Logic and Exact Observation in Laboudy's Medical Investigations
Tarek Adnan Ahmed

Linear Astrolabe according to Its Inventor
Sajjad Nikfahm Khybravan

A History of Precise Calculations in Exact Sciences: Ancient and Medieval Times
Fateme Savadi
Friday, 31 July, 11.30 – 13.30

Chair:

Mukanna "Moon Maker": Discoverer of Mercury Telescope?
Abasali A. Rustamov

Stairway to Heaven or Sullam-al-Sama of Kashi
Farhad Rahimi

T04 South Asia and India

Tuesday, 28 July, 11.30 – 13.30

Chair: Michael A Cremo

The History and Prospects of Bangladesh to India Natural Gas Pipeline Project
Md. Mamunur Rashid

Perceptions of Western Techno-Scientific Progress: Karim Khan Mushtaq Jhajjari – a Visitor to Britain (1840-41)
Gulfishan Khan

On the History of Brahmagupta's Mathematics and Their Transmission to Arab Countries
Rabindra Kumar Bhattacharyya

Role of Technical Thoughts in Social Context
Ugrasen Pandey

Tuesday, 28 July, 15.00 – 17.00

Chair: Katalin Munkacsy

Planning and Technology for National Reconstruction, the NPC Initiative in Colonial India
Jagdish N. Sinha

Time to Change and Unchanging Time- Modernity, Colonialism and the Native Calendar
Reform in Late Nineteenth Century Tamil Nadu
Venkateswaran Thathamangalam Viswanathan

Rewriting the History of Indian Archeology
Michael A. Cremo

Concept of Sunya in the Indian Antiquity
Parthasarathi Mukhopadhyay

Ideas and Instruments: The Indian Contribution
K.S. Murty

Tuesday, 28 July, 17.30 – 19.30

Chair: Rabindra Kumar Bhattacharyya

Jesuit Contribution in Science Education, Research and Popularisation in Bengal (India) During the Late 19th Century
Subhankar Ghosh

Saltpetre Manufacture Technology in Medieval India
Ishrat Alam

The Lessons of Millenary Water Use in the Ancient Israeli Kingdom (VIII BC – II BC)
Olga A. Aleksandrovskaia, V.A. Shamis
T05 East Asia

Friday, 31 July, 11.30 – 13.30
Chair: Erich Pauer

The Jiudian Bamboo Slips and the Space and Time Correlations of the Yin and Yang Concepts
Sándor P. Szabó

The Beginning of Wasan: Mathematical Practices with Disparities
Marion Cousin

Continuing Joseph Needham’s Traces of the “Great Extension Number”: The Origin of the “Great Extension Mathematics” (Indeterminate Analysis) in China
Honghai Deng

The Organization of Technical Knowledge Transfer on the Eve of Japan’s Industrial Revolution
Erich Pauer

Friday, 31 July, 15.00 – 17.00
Chair: Yuqun Liao

Change in Meaning or Style of the Knowledge: Diversification of Equipments in Acupuncture Research in Contemporary China
Yan-Hong Huang

Introduction of the Understanding and Practice Course of Managerial Psychology in China in the 20th Century
Kang Xu, Chao He

The Main Characters of the Traditional Chinese Medicine
Yuqun Liao

The Meaning of Solar Eclipse for the Ancient Chinese Based on the "Jing Jian Nei Zhi" Text from the Chu Bamboo Slips Collection of the Shanghai Museum
András Márk Szekeres

Friday, 31 July, 17.30 – 19.30
Chair: Hsiu-fen Chen

Engendering Emotions: Women’s Melancholy in 16th-17th Century Chinese Medicine
Hsiu-Fen Chen

Election of Members of the Second Research Council of Academia Sinica and Its Impact in 1940
Jinhai Guo

Development of Botany in Republican China (1912-1949) – A Bibliometrics Analysis
Ang Li

An Analysis on the Debate of the Concept of “Mass-Energy”
Yan-Feng Wang

Good Fortune or Environmental Harmony?
Michael J. Paton
Soviet Experts and Chinese Air Force Education (1949-1960)
Yang Aihua

The Study of Relation between Science and Public in China Westlake Expo 1929
Zhengwei Li, Yadong Shi

T07 The Middle Ages (Western and Byzantine) and Renaissance

Thursday, 30 July, 15.00 – 17.00
Chair: István Draskóczy

Faith or Knowledge? Normative Relations between Religion and Science in Two Byzantine Texts.
Gianna Katsiampoura

Explanations of the Plague in the Late Middle Ages
Otto S. Gecser

Literature and Astronomy in Sacrobosco's Tractatus de Sphaera and Computus Ecclesiasticus
Roberto de Andrade Martins

On the Semiotic Processes that Enabled Bombelli’s L’algebra
Roy Wagner

Thursday, 30 July, 17.30 – 19.30
Chair: Roy Wagner

Child Health during the Medieval Ages in Islamic World
Abdul Nasser Kaadan

Byzantine Astrolabes and the contraction of Greek Authority in 16th-century Europe
Darín Hayton

Mathematics and Venetian Naval Architecture: An Analysis of the Geometrical Methods in Ship Design Used from the 14th to the 17th Century
Lilia Campana, Mauro Bondioli

The Cisterna Fulcronica: What Can We Learn from a 16th Century Occitan Treatise of Arithmetics?
Anne Michel-Pajus

Friday, 31 July, 11.30 – 13.30
Chair: Benedek Varga

José A. González Marrero, Maravillas Aguiar Aguilar

Magic and Technology in Early Italian Renaissance: Automata in Boiardo’s “Orlando Innamorato”
Nadia Ambrosetti

From Abulcasis to Guy de Chauliac – The History of the Surgery in Europe in the Middle Ages
Erzsébet Igari
The Sense of Hearing and the Reconsideration of the Practical Sciences in Roger Bacon
Yael Raizman-Kedar

Friday, 31 July, 15.00 – 17.00
Chair: Darin Hayton

Horoscopes as Biographies in the Renaissance
Dóra Bobory

The Late Medieval Salt Mining and the Technical Questions of Salt Transport in Hungary
István Draskóczy

T08-01 Mathematics and Mechanics in the Classical Period (1543-1800)

Saturday, 1 August, 09.00 – 11.00
Chair: János Tanács

The Problem of Parallels in its Social Context: The Political, Religious and Educational Circumstances of the Hungarian Kingdom at the End of the 18th Century
János Tanács

The Problem of Conflict and Exchange of Knowledge: The Case of the Revolution in Ballistics in 18th Century Europe
Toru Tajima

Do Not Lump Everything Together. The Failure of the Philosophical Model, the Success of the Mathematical one in Mechanics in the Classical Period.
Fabio Zanin

John Theophilus Desaguliers: A Newtonian between the Patronage and the Market Relations
Luiz Carlos Soares

Saturday, 1 August, 11.30 – 13.30
Chair: János Tanács

The Early Years of Gresham College, London
Robin Wilson

L’équilibre des Sons: La Musique et les Mécaniques chez Marin Mersenne
Paulo T. Silva

The Concept of Speed by Descartes
Gyula Kistültősi

Euler’s Cartographical Works and Occurrence of Differential Geometry in XVIII Century
Inessa I. V. Ignatushina

Saturday, 1 August, 15.00 – 17.00
Chair: Petr E. Levkovsky

Pedro Giannini (fl. 1773-1800)
Juan M. Navarro-Loidi

Jacopo Riccati’s Research on Differential Equations
Silvia Mazzone
Johann Bernoulli's Research on Mechanics  
*Satoshi Nozawa*

Charles Bossut, an Outstanding French Mechanic and Mathematician of the XVIII Century  
*Petr E. Levkovsky, Vadim I. Yakovlev*

**Saturday, 1 August, 17.30 – 19.30**  
*Chair: Katalin Munkácsy*

Mathematical Education in Walachia, Moldavia and Transylvania in the 18th Century.  
*Eufrosina Otlacan, Romulus-Petru Otlacan*

European Mobility of Highly Cultivated People.  
*Eufrosina Otlacan, Romulus-Petru Otlacan*

The Decimalization of Traditional Oral Numeration Systems across Languages and Culture: A Diachronic and Synchronic Overview  
*Dominique A. Vellard*

**T08-02 Physics and Astronomy in the Classical Period (1543-1800)**

**Wednesday, 29 July, 09.00 – 11.00**  
*Chair: Péter Szegedi*

The Astronomical Observations, Hypothesis and Demonstrations in Chongzhen Lishu  
*Kehui Deng*

Tycho Brahe and Kepler in Prague: Multifold Reflections on Astronomy  
*Manolis K. Kartsonakis*

Notes on Johannes Kepler’s Book “Harmonice Mundi”  
*Marina V. Voinova*

Astronomy and Optics: the Development of the Optics of Moving Bodies  
*Arnaud Mayrague*

**Wednesday, 29 July, 11.30 – 13.30**  
*Chair: Lila Rakoczy*

Georg Markgraf in Dutch Brazil: His Pioneering Astronomical Activities in the New World  
*Oscar T. Matsuura*

Isaac Newton: The Exoteric and Esoteric Knowledge of the Principia  
*Tessa Morrison*

Transformation of Proposition VII in Book I of Newton’s Principia with Special Reference to the Adjoining Figures  
*Takeshi Sugimoto*

Stars, Births, and Kings: Astrophysics and Mythmaking in Seventeenth-century England  
*Lila Rakoczy, Martin Lunn*

**Wednesday, 29 July, 15.00 – 17.00**  
*Chair: Tessa Morrison*

Analogies of Sound and Light in the Scientific Writings of Athanasius Kircher  
*Oona Leganovic*
The Status of the Milky Way in William Herschel’s Work and How Did Science Historians of the Nineteenth Century Focus the Question.
Victória Flório Pires de Andrade

T08-05 Biological and Medical Sciences in the Classical Period (1543-1800)

Thursday, 30 July, 15.00 – 17.00
Chair: Margaret E. Carlyle

How Aldrovandi Read, and Looked at, His Lycothene: Reading Practices, Images, and the Persistence of Knowledge in Sixteenth-century Natural History
Fabian Krämer

The Medical Library of the Secretary of the King of Sweden: Henrik Matsson Huggut (ca. 1540-1617): Authors from the Antiquity to the Renaissance
Terhi Kiiskinen

Midwives Modelling Mannequins: Obstetrical Machinery and Medical Knowledge in the French Enlightenment
Margaret E. Carlyle

Anatomy and Its Artefacts: Visualising the Body in the Eighteenth Century
Lucia Dacome

Thursday, 30 July, 17.30 – 19.30
Chair: Nuria Perez-Pérez

Instrumental Use of Experimental Physics in Medicine at the Royal College of Surgery of Barcelona (1760-1843)
Nuria Pérez-Pérez

El Conocimiento Cientifico De La Naturaleza. El Saber Médico En Los Remedios Populares En El Yucatan Del Siglo XVII
Pedro Miranda Ojeda, Genny M. Negroe Sierra

Giovanni Borelli (1608-79) on Animal Movement
Jarmo Pulkkine

T08-06 Technology and Engineering in the Classical Period (1543-1800)

Saturday, 1 August, 17.30 – 19.30
Chair: Robert Fox

Technology and Engineering in the Council House Tower of Medieval Brasov
Viorel Ene, Tibor Bedő, Marius Bența

Sandro Stura, Erminio Raiteri, Giulio Scarsi, Sandro Stura

Acoustique Physique et Procédés Techniques aux XVIIème et XVIIIème Siècles
François Baskevitch
Euler Meets Dutch Windmills: an Intersection between Mathematics and Experimental Philosophy in the 18th Century
Satoshi Nakazawa

Wolfgang von Kempelen – A Master of Engineering in the Age of Enlightenment
Alice Reininger

T09-01 Mathematics in the Contemporary Period (1800-)

Wednesday, 29 July, 09.00 – 11.00
Chair: Josipa G. Petrunic

Kolmogorov Program on Foundations of Mathematics
Alexander S. Kuzichev

Kazimierz Żorawski, his Work and the Creation of the Cracow Mathematical School
Zdzisław Pogoda

Quaternion Engagements and Terrains of Knowledge (1858-1880): A Comparative Social History of Peter Guthrie Tait and William Kingdon Clifford
Josipa G. Petrunic

One or More Definitions of Number in Gottlob Frege’s Papers?
Gabriela Besler

Wednesday, 29 July, 11.30 – 13.30
Chair: Péter Gábor Szabó

The Emergence of Fractional Calculus
Luisa F. Vargas Jimenez

From a Measure Theory to a Theory of Measures
Carmen Martínez Adame

The Riesz Brothers's Correspondence
Péter Gábor Szabó

The Baire Class and the Surgimiento of the Theory of Functions
Luis Recalde

Wednesday, 29 July, 15.00 – 17.00
Chair: Christian Gerini

La «Mémoire sur les Méthodes Générales d'Intégration» de Joaquim Gomes de Souza (1829-1864)
Marcos Vieira Teixeira

Les Commencements de la Science Statistique à l’Espagne et Portugal
Gabriela M. Fernández Barberis, M. Carmen Escribano Ródenas

Le Père de la Recherche Opérationnelle en Espagne: Sixto Ríos García
M. Carmen Escribano Ródenas, Ana I. Busto Caballero

Christian Gerini
Wednesday, 29 July, 17.30 – 19.30
Chair: Katalin Munkácsy

Is Science Discovering Nature or “Vice Versa”?
Jasna Femel Madjarevic

Vaclav Simerka-mathematician, Teacher, Priest
Karel Lepka

Des Ponts Entre L’est et L’ouest: Variations Austro-hongroises, Pétersbourgeoises et Königsbourgeoises
Norbert Verdier

T09-02 Physics and Astronomy in the Contemporary Period (1800-)

Wednesday, 29 July, 15.00 – 17.00
Chair: Péter Szegedi

Thomson versus Clausius: What is the Share of Each One in the Creation of the 2nd Law of Thermodynamics?
Mayane L. Nobrega, Suani T. R. Pinho

A History of Entropy through Various Methods
Eri Yagi, Rika T. Okamoto

La Réception Française de la Théorie Cinétique des Gaz
João P. Principe

The Relationship between Gibbs’ Theory of Thermodynamics and that of Statistical Mechanics
Hajime Inaba

Wednesday, 29 July, 17.30 – 19.30
Chair: Ricardo L. Coelho

On Hertz’s Principles of Mechanics
Ricardo L. Coelho

Hertz’s Experiments on Electromagnetic Waves from Modern Retrospective: Serious Indications on Incomplete Approach
Roman Smirnov-Rueda, Alexandr Kholmetskii, Oleg Missevitch

Interaction of Experimental Programs: The Development of Experimental Research on Thermal Radiation in Germany at the End of the 19th Century
Daisuke Konagaya

Piazzi Smyth’s Photographs of the Solar Spectrum in Lisbon, Sintra and Madeira: Analysis of Results and Instruments
Fernanda Costa, Isabel M. Peres, Maria E. Jardim

Thursday, 30 July, 15.00 – 17.00
Chair: Matthew Stanley

Past as Prediction: Victorian Scientists on Ancient Eclipses and the Power of Science
Matthew Stanley
Thursday, 30 July, 17.30 – 19.30
Chair: Helge Kragh

Fringe Cosmo-(a)-gonies : French and British “Cosmogonists” Facing Scientific Standardization
Volny Fages

The Revival of the Oscillating Universe
Helge Kragh

About a New Periodisation of the History of Neutrino and Weak Interactions from the Discovery of $\beta$-radioactivity up to the Solution of Solar Neutrino Puzzle (SUDBURY, KamLAND)
Tibor Toro

Looking through the Microscope in the Context of Vienna Indeterminism – On a Local Way to Conceptualize Brownian Motion
Michael Støeltzner

Friday, 31 July, 11.30 – 13.30
Chair: Arcangelo Rossi

Jun Ishiwara as a Forerunner of Bose on Statistics, de Broglie on Phase-Wave, and Einstein on Quantum Condition
Seiya Abiko

Compton’s Large Electron as an Example of His Classical Approach to X Ray Scattering
Indianara L. Silva, Ana Paula Bispo. Silva

The Foundational Side of Italian Physics in the First Half of the XX Century
Arcangelo Rossi

Researches and Studies in Mathematical Non-classical Physics (Quantum; Relativist) Achieved in the Period cca. 1900 – cca. 1939/1940 by Scientists from Carpathean-Danubean-Pontean / Romanian / Space
Liviu Alexandru Sofonea, Elena Helerea, Sofia Hagia, Horia Salca

Friday, 31 July, 15.00 – 17.00
Chair: Juraj Šebesta

Contributions to Analyse of Life and Work of any Hungarian Origine Scientitits From Former Austro-Hungariyn Monarchy
Huba Laszlo Szoeecs

N.N.Bogoliubov – The Great Scientist and Humanist of XX Century
Olga N. Golubjeva, László L. Jenkovszky, Aleksandr Dmitrievich Sukhanov

Principles of Physical Theories – Past and Present
Juraj Šebesta
T09-03  Earth Sciences in the Contemporary Period (1800-)

Saturday, 1 August, 09.00 – 11.00
Chair: H. Torrens

The Social Aspects of Natural-science: World Outlook and the Evolution of the Ideas about the Age of the Earth
S.Kh. Maghidov

Two Centuries of Oil Industry of Chechen Republic
Ibragim Akhmedovich Kerimov

Forgotten Colonial Seismology: The Introduction of Instrumental Seismology in the Philippine Islands (1865-1910)
Josep Batlló

Changes in State Directed Assessment and the Role of 'Conclusive Evidence': The NYS HS Earth Science Regents Exam Replaces 'Polar Wandering' with 'Plate Tectonics' as the Accepted Explanatory Theory for Observed Macro-Crustal Changes
Michael D. Sunderland

Saturday, 1 August, 11.30 – 13.30
Chair: H. Torrens

Geothermal Heat Flow as a Problem: The History of Observations and Theories
Alexander Nicolai Zemtsov

The Trails of Roman Symonowicz’ Mineralogical Travel (1803) to Transylvania (Ziemia Siedmiogrodzka)
Algimantas Grigelis

To the History of Water Supply in Moscow
Nadezhda Ozerova

The Search of Gold in America in XVI Century – The Combination of Knowledge and Experience of Nations
Jury Mihajlovich Bazhenov

Saturday, 1 August, 15.00 – 17.00
Chair: K. Brezsnýánszky

History of the Meteorological Observation in Buda(Pest) Since 1781
Zoltan A. Dunkel

The First Detailed Geological Map of the Polish Kingdom’s Coal Basin (1856)
Andrzej J. Wojcik

T09-04  Chemistry in the Contemporary Period (1800-)

Friday, 31 July, 11.30 – 13.30
Chair: Andres L. Lundgren

The Relationship between Chemistry and Alchemy in the Age of the Enlightenment
Halina Lichocka
The Mineral Chemistry Laboratory of the Polytechnic School of Lisbon
Maria Elisa Maia

The Problematic Accommodation of the Rare Earth Elements in the Periodic Table from 1869 to 1913
Pieter Thyssen

Study of Water-ethanol Systems from Dmitriy Mendeleev to Nowadays
Svetlana Patsaeva, Vera Z. Grigorieva

Friday, 31 July, 15.00 – 17.00
Chair: Halina Lichocka

To Do Research with Nose and Tongue: Some Reflections on the Role of Smell and Taste in the History of Chemistry
L Anders Lundgren

The 50th Anniversary of the Heyrovský’s Nobel Prize
Jiří Jindra

The Same Discipline in Different Places: Electrochemistry in Spain in the First Third of XXth Century
Angel Toca

Contribution of Russian Chemists to Development of Russian Spirit and Vodka Production Industry in the 19th and the Early 20th Century
Vera Z. Grigorieva, Svetlana Patsaeva

The Development of Macromolecular Chemistry in Belgium and His Contribution to It in the International Polymer Chemistry Community
Ali Gharib

Controversies on the Nature of Caloric in the Greek-speaking Journal Hermes the Scholar, at the Turn of the Nineteenth Century
Efthymios Bokaris

T09-05 Biological Sciences in the Contemporary Period (1800-)

Tuesday, 28 July, 11.30 – 13.30
Chair: Miklós Müller

Advances in Modern Biology Can Be Accelerated by Meaningful Crosstalk between Physicists and Biologists
Sukhendu B. Dev

Ervin Bauer and General Biology in the All-Union Institute of Experimental Medicine: Rise and Fall of a Major Soviet Laboratory
Miklós Müller, Gábor Elek, Sergey S. Zhebrovsky

Russian Biologists at the Mediterranean. Second Part of the 19th – the Beginning of 20th Centuries.
Sergei I. Fokin

Between Science and Technology: The Catalan Structuralist School, the Nucleohistone Structure and the Development of X-Ray Diffraction Cameras
Francesc-Xavier Calvó-Monreal
Tuesday, 28 July, 15.00 – 17.00  
Chair: Janina Wellmann

Affiliation and Collaboration Networks in the Biomedical Sciences in Portugal in the Inter-war Period (1920-1940)  
José Pedro Sousa-Dias, Ricardo S. R. Santos

Critical Thinking: Historical Perspective and Present Situation in Turkey  
Melih Tumuçin

Janina Wellmann

History of National Institute of Genetics in Japan  
Hajime Mizoguchi

Tuesday, 28 July, 17.30 – 19.30  
Chair: Miguel Garcia-Sancho

Edward Janczewski’s Work on Monographie des Grosseliers, a Monograph on Genus Ribes (1907)  
Kamil Kulpinski

The Introduction of ‘Information Engineers’ Into the First DNA Sequence Database, 1980-1993  
Miguel Garcia-Sancho

The Significance of Science Instruments in the Research Progress and Development Plant Physiology in Nineteenth Century. Research Instruments of Polish Scientist Emil Godlewski Senior (1847-1930)  
Izabela Krzeptowska-Moszkowicz

Polish Botanical and Mycological Research in Terrestrial Ecosystems of Antarctica Since 1977  
Piotr Köhler

Wednesday, 29 July, 09.00 – 11.00  
Chair: Tomohisa Sumida

Lithuanian Space Plant Biology Researches in 1975–1990  
Aurika Ričkienė

Comparative Anatomy, the Chain of Beings, and French Zoology after Lamarck  
Emmanuel D’Hombres

Tomohisa Sumida

Early Apparatus-based Experimental Psychology  
Maximilian Wontorra, Ingrid Kästner, Erich Schröger

Wednesday, 29 July, 11.30 – 13.30  
Chair: Jakov Dulčić

Brief History of Ichthyology in Croatia  
Jakov Dulčić
Electrography of Living Systems or So-called Kirlian Photography, Reconstruction of Historical Fairness and Present Potential
Olga A. Gaponenko, S. Raikov

The Finnish Tradition of Developmental Biology
Anto Leikola

Morgan's Change of View on Evolution, 1903-1932
Lilian Al-Chueyr Pereira Martins

T09-06 Medicine in the Contemporary Period (1800-)

Tuesday, 28 July, 11.30 – 13.30
Chair: Claude Debru

Laboratories at the Medicine Faculty of Coimbra University in the XIX Century
Maria Carvalho Burguete

The Appliance of Science? The Laboratory and Clinic in Early-twentieth Century Scottish Psychiatry.
Gayle L. Davis

Personnel Monitoring and Evaluation Dosimetry
Anthony K. Shadrack

Ramon y Cajal and the Law of the Dynamic Polarisation of the Neuron
José Luis González Recio, Francisco José Serrano Bosquet

Tuesday, 28 July, 15.00 – 17.00
Chair: Benedek Varga

The Development of Pharmaceutical Industry in Serbia
Irena Mandic, Dusanka Krajnovic

Aspirations and Conflicts: The ‘Professionalisation’ of Medicine in Colonial Banaras
Madhuri Sharma

Historical Development of the Emergency Medicine in Turkey
Ozgur Tatli

Medical Science in XIX Century in Georgia and its Social-Cultural Framework
Nino Chikhladze, Ramaz Shengelia, Nato Pitskhelauri

Tuesday, 28 July, 17.30 – 19.30
Chair: Emil Schultheisz (to be confirmed)

Odessa City Hospital (the 1st Century of Activites)
Svitlana Ruda

Serotherapy and Modernity in Turn-of-the-Century Paris
Jonathan Simon

Computer Tomography Scanner: A Revolutionary Instrument
Mei Zhou

New Medical Ideas in Old History of Medicine
Nato Pitskhelauri
Wednesday, 29 July, 09.00 – 11.00
Chair: Maria Carvalho Burguete

- Language, Information, Instruments and Medical Treatment – The Medical Assessment by Japanese Doctors at the Beginning of the Meiji Era, Japan
  Miyoko Tsukisawa

- Cut up and Imaged: Late 19th-century Representations of the Cortex
  Heini Hakosalo

- Chinese Medicine and Western Medicine on the Way of Scientific Advances and Integration.
  Yulia Petrovna Chukova

- A Quest for the ‘Modern’: Localizing versus Universalizing Knowledge
  EunJeong Ma

Wednesday, 29 July, 11.30 – 13.30
Chair: Dénes Karasszon

  Veronika Hofer

- US ‘Shopping List’ of Human Experimentation Data Presented by Former Japanese B.W. Units, Ishii Organization
  Keiichi Tsuneishi

- La Circulation d’Idées Scientifiques: Une "Assemblage de Liens" dans les Premières Revues Médicales de São Paulo
  Márcia Regina Barros da Silva

- L’Appareil Enregistreur Générale de François-Franck (1849-1921)
  Liborio Dibattista

T09-07 Technology in the Contemporary Period (1800-)

Tuesday, 28 July, 11.30 – 13.30
Chair: Alexandre Herlea

- Micro-alloying in Early Iron Age: A Case Study from Badmal, Orissa
  Pradeep K. Behera, Subhayu Chattopadhyay, Prasanta K. Datta

- Making of Sound Recording in Late XIX Century and Modern Problems of Restoration and Preservation of Old Audio Media
  Roman V. Artemenko

- Development Trend and Results of Industry in the Era of the Dual Monarchy of Austria-Hungary
  Zsuzsanna Bognár

- The Ways of Searching “Rusalka” Coast Guard Battleship (1893-1894)
  Vladimir O. Chikin

Tuesday, 28 July, 15.00 – 17.00
Chair: Alex Keller

- 270 Years of Lightning: A Historical Review
  Javier Lopez-Herrera, David de la Vega, María de las Mercedes Maruri
Large Infrastructural Systems in the Extreme North: Learning from the Build-up of Water- and Wastewater Systems and Railway Electrification in Sweden
Kristina Söderholm, Roina Wiklund

The Complexity of the Concept Materia Technika
Elena I. Helerea, Liviu Alexandru Sofonea, Laura Rab, Daniel Calin

Evolution of e-Books in Turkey and in the World
Sakine Sensoy-Ongoz, Adnan Baki

Wireless Phone in Szombathely at the Turn of the 19th and 20th Centuries
József Nemes

T09-08  Engineering in the Contemporary Period (1800-)

Saturday, 1 August, 17.30 – 19.30
Chair:

Manabu Kobayashi

The International Context of the Technological Changes of the Slovak Power Engineering Base in the First Half of the 20th Century
Miroslav Sabol, Ludovit Hallon

From LEDs to Solid-state White Lighting Devices, Another Semiconductor Revolution
Vásilica Schiopu, Ileana Cernica, Alina Matei

Engineers and Conservatives in the Creation of State Hydroelectric Power in Canada
Langins Janis

T09-09  Space Exploration and Research in the Contemporary Period (1800-)

Friday, 31 July, 17.30 – 19.30
Chair: Attila Szabó T.

Hubble Space Telescope’s Several Lives and Unexpected Career
Joseph N. Tatarewicz

Janet Vértesi

Space Exploration and Research in the Contemporary Period
Ven. Dharmananda Shraman

The Three Heroes of Spaceflight: The Rise of the Tsiolkovsky-Goddard-Oberth Interpretation and its Current Validity
Michael J Neufeld
T09-10  Computing Sciences and the Internet in the Contemporary Period (1800-)

Saturday, 1 August, 09.00 – 11.00
Chair: Bálint Dömölki

The First Hungarian Electronic (Tube) Computer – the M-3 – is 50 Years Old
Győző Kovács

The Cultural History of Character Encoding
Daniel L. Golden

The Social Construction of Computers Aided by Social Network Analysis
Éva Borbély

Searching Methods in Artificial Intelligence
Angel Garrido

History of Computer Science in Russia
Yakov I. Fet

T09-11  Geography in the Contemporary Period (1800-)

Saturday, 1 August, 17.30 – 19.30
Chair: Alexey Postnikov

Paper Fortresses: Renaissance Military Architecture in the Context of Hapsburg Cartography
Zsolt G. Török

Experience and Rhetoric in Sixteenth Century Spanish Atlantic Cartography: Utility and Conformity in Double Graduation Charts
Antonio Sánchez

Perception of Geographical Features and the General Concept of “Shui-kou” in the Feng-Shui Thought of East Asia
Shizuaki Shibuya

Alexey Postnikov

T09-12  Social Sciences in the Contemporary Period (1800-)

Wednesday, 29 July, 15.00 – 17.00
Chair: Jenny Bangham

Ghislaine Idabouk

On the Threshold of Modernity. Alva and Gunnar Myrdal vs. Eli and Ebba Heckscher on the Subject of Science and Social Welfare.
Ylva J E Hasselberg
Epistemological Conditions for a Successful Transfer of Policy Relevant Knowledge: A Lesson from the History of Central Banking  
*Arie Krampf*

Helmholtz Resonators and the Mechanistic Revolution in Psychology  
*Zuraya Monroy-Nasr*

**Wednesday, 29 July, 17.30 – 19.30**  
*Chair: Arie Krampf*

Hungarian-Chuvash Economic and Cultural Contacts in the Current Context  
*Marina Grigoryeva*

The Evolution of Man in the Late Nineteenth Century: Darwinism and the History of Human Marriage  
*Jenny Bangham*

**T09-13 Natural History in the Contemporary Period (1800-)**

**Saturday, 1 August, 09.00 – 11.00**  
*Chair: Adriana T. do A. Martins Keuller*

Sir Robert Schomburgk's Biodiversity Science Legacy in Guyana  
*John Cartey Caesar*

Emergency of the Mexican Physical Anthropology in 19th Century, within the Context of the European Imperialistic Expansion  
*Miguel García Murcia*

Zoology in the Library of Martorell Museum of Natural Sciences of Barcelona, since 1882 to 1915  
*Jose J. Varela Restrepo*

The Anthropology Laboratory at the National Museum of Rio de Janeiro (1909-1935)  
*Adriana T. do A. Martins Keuller*

**Saturday, 1 August, 11.30 – 13.30**  
*Chair: Ewa Kaczmarzyk*

Seeing Past Specific Behaviors: Classical Ethology’s Failure  
*Jean-Sébastien Bolduc*

Floristic Research of the Częstochowa Upland (Poland) between the Middle of the 19th Century and the End of the First World War  
*Ewa Kaczmarzyk*

**T09-14 Environmental Studies in the Contemporary Period (1800-)**

**Friday, 31 July, 11.30 – 13.30**  
*Chair: Elisabeth Robin*

*Elizabeth A de Q Robin*
Sustainable Development on Community Livestock. A Case of North Eastern Province, Kenya.
Gordon Nyabade

La Crise Environnementale Globale et la Nouvelle Dynamique du Développement dans des Régions Périmétriques
Marcionila Fernandes

The Teleconnection between Sea Surface Temperature Analysis from in Situ Data at East Mole, Lagos and Global Warming
Okuku Archibong Eding

Friday, 31 July, 15.00 – 17.00
Chair: Baisakhi Bandyopadhyay

A Study of the History of Environmental Science in Social Context in the First Half of Twentieth Century
Baisakhi Bandyopadhyay

Historical Ozone Measurements Made in the Habsburg Empire
Tamas Weidinger, Joseph Pinto, Gyorgyi Baranka, Anett Ivady

Ancient Waterways and Hydrotechnical Constructions of the European Part of Russia (Historical and Ecological Aspects)
Vera A. Shirokova, Vassili M. Chesnov

T10 International Scientific Exchange

Friday, 31 July, 17.30 – 19.30
Chair: László Szögi

The Research on Radioactivity in Portugal and the Institut Curie du Radium
Isabel M Serra

The Moscow Colloquium on Electroencephalography of Higher Nervous Activity (1958) and Its Impact on International Brain Research
Boleslav L. Lichterman

Conservation Science in Context: Humphry Davy and the Herculaneum Papyri
Frank A.J.L. James

The International Commission on Mathematical Instruction. The Italian Contribution from the Founding to the 1950s.
Livia Giacardi

Saturday, 1 August, 09.00 – 11.00
Chair: Isabel Serra

The Brazil-Germany Relations in the Context of Psychiatry
Cristiana Facchinetti

International Eugenics: Reexamining the Relationship between British and German Eugenicists prior to the Second World War
Bradley W Hart
T11  Scientific and Technical Museums

Saturday, 1 August, 11.30 – 13.30  
Chair: Elisabeth Kóczían-Szentpéteri

- A Collections Development Strategy: Selecting Artifacts for the Interpretation of Canadian Agricultural Science and Technology  
  Franz M Klingender

- National Technical Museum in Prague for the Future: Reconstruction of Historical Buildings and New Exhibitions, the Architectural Heritage Centre  
  Ivana Lorencova

- Political and Cultural Grounds as Driving Force of Soviet Broadcasting Technologies  
  Nina A. Borisova

- The Research and Public Diffusion of Science and Technology in the Museums  
  Myriam García, Belen Laspra

Saturday, 1 August, 15.00 – 17.00  
Chair: Judit Berta-Varga

  Xiping Cao, Erping Zhang

- Science and Technology Museum and Archives – A Joint Study of Funds for Obtaining New Information  
  Yuriy Ivanovich Krivonosov

- Engines and Society: Museological Interpretation of Industrial Heritage  
  Joan Muñoz Vicente, Santiago Vallmitjana

Saturday, 1 August, 17.30 – 19.30  
Chair: Éva Vámos

- The Role of Small Technical Museums in Preserving the Cultural Heritage  
  Ante Sekso-Telento, Ivan Sekso-Telento, Josip Trbus, Sandor Jeszenszky

- Table Top Physics: Old Science, New Audience  
  Jane Wess

- Microscope History Virtual Museum  
  Nikolay Koltovoy

T12  The Formation of Scientific Languages

Wednesday, 29 July, 17.30 – 19.30  
Chair: Teodora Daniela Sechel

- The Development of Symbolic Languages in the Field of Logic (1854-1903)  
  Amirouche Moktefi

- The Birth of the Mediaeval Hebrew Mathematical Language  
  Ilana Wartenberg
T13 The Evolution of Teaching and Public Involvement

Saturday, 1 August, 17.30 – 19.30
Chair: Marta Fehér

- Learning in the Lab: High School Science Teaching in Ontario, 1880-1921
  Michelle D Hoffman

- The Teaching of Radiochemistry in Portugal
  Francisca Viegas, Cristina Felizardo, Elisa Maia

  Robert Bud

- “Elementary” Texts as a Scientific Genre in Eighteenth-century France
  Jeffrey L Schwegman

- Ideas of Modern Natural Sciences as the Instrument for Formation of People Rational Thinking
  Olga Naumovna Golubjeva

- Modern Mathematics at the Center for the Teaching of Sciences of Bahia (Brazil), 1965-1969
  André Luís Mattedi Dias

T14 Scientific Institutions - Learned Societies

Saturday, 1 August, 11.30 – 13.30
Chair: Jouzas Algimantas Krikstopaitis

- Academies of Science in 18th-century Europe and the Application of Scientific Methods on Exploration – A Comparative Study
  Jan E.A. Vandersmissen

- Academic Drift among Scientific Institutions – Necessity or Serendipity?
  Thomas Kaiserfeld

- The Missing Link in Science Communication: The Role of Learned Societies and Popular Journals
  Jørgen Burchardt

- Saint-Petersburg Academy of Sciences in 1855-1917: Projects of Reform
  Ekaterina Yu. Basargina

Saturday, 1 August, 15.00 – 17.00
Chair: Jørgen Buchardt

- École Polytechnique de Lisbonne versus École Polytechnique de Paris
  Pilar B.G. Pereira
The Role of the Japanese Cultural Background in the Formation of Engineering Education: In the Case of the Imperial College of Engineering, 1871-1886
Masanori Wada

Moscow Society of the Friends of Natural Sciences, Anthropology and Ethnography and Popularisation of Scientific Knowledge in the 19th Century Russia
Galina G. Krivosheina

Learned Society as Promoter of Education and Intellectual Activity: Baltic Case
Juozas Algimantas Krikstopaitis

T15  Art and Science

Wednesday, 29 July, 09.00 – 11.00
Chairs: Dénes Nagy, Assimina Kaniari

Art and Science in a Split Culture – A General Outlook and a Case Study: Breaking Leonardo’s Vitruvian “Code” and the Golden Section with Less “Gold”
Dénes Nagy

Post-war Biology, Avant-Garde Art and the Social Life of Scientific Ideas at the Festival of Britain 1951: L.L. Whyte, D’Arcy Thompson and ‘Form’
Assimina Kaniari

Carnap’s Universal Metaphor: Art and Structural Objectivity between the Wars
Boris Jardine

Imre Lakatos' and Emmanuel Levinas'. Approaches to the Natural and Human Sciences.
Natalie E Ross

Wednesday, 29 July, 11.30 – 13.30
Chairs: Dénes Nagy, Geert Vanpaemel

Bringing the Laboratory into the Museum of Fine Arts
Geert Vanpaemel

L’Architectecte, le Dessin et la Science, Formes du Savoir dans la Construction
Nathalie Huyghues des Etages

New Results of the Artistorical Researches of the Renaissance Frescoes of the Archbishop Johannes Vitéz’s Studiolo in Esztergom /Hungary/
Mária Prokopp

The Restoration of the Renaissance Mural Painting ,,Virtues”, in the Studiolo of Johannes Vitéz, at the Castle Museum of Esztergom, New Researches and Results
Zsuzsanna Wierdl

Wednesday, 29 July, 15.00 – 17.00
Chairs: Dénes Nagy, Oscar Joao Abdounur

Prospective Dwelling: From Utopian to Iconic Habitats
Jorge Croce Rivera

An Exhibition on the History of the Interrelationships between Mathematics and Music
Oscar Joao Abdounur

The Art, Science, and Technology of Electrifying Music
Pierfrancesco Lostia
A Literary Figuration of Alchemy; Novelist Park, Sang-ryoong’s ‘A Study of Death’
Myungshin Kim

Wednesday, 29 July, 17.30 – 19.30
Chairs: Iván Urbán, Bogdan Zemanek

Caravaggio’s "Boy Bitten by a Lizard", an Epileptic Contagion between History of Medicine and Folklore
Mauro Di Vito

History of Botany and Science - Nature - Culture Relations; Interdisciplinary Symposia in Cracow (Poland)
Alicja Zemanek, Bogdan Zemanek

T16 Science and Society

Wednesday, 29 July, 15.00 – 17.00
Chair:

Preliminary Notes for a History of the Popularization of Quantum Physics in Spain
Maria C. Boscá

Science and Society in the Context of Contemporary Socio-economical and Ecological Problems
Zulfira Sherpaevna Gagaeva

The Professional and Public Recognition of Scholar
Oleksandr Fedorovych Konovets

Organizing Nordic Eugenics in the 1920s
Sven Widmalm

Wednesday, 29 July, 17.30 – 19.30
Chair:

The Institute of Race Biology in Sweden – Social Networks and Media Strategies
Maria Björkman

A Survey of Objective Transfer of Science and Technology Policy in European Union
Xinying Fang

Role of Nanotechnology in Optoengineering Development
Vladimir Gurikov

The Nobel Prize Complex in South Korea: Historical and Sociological Considerations
Sungook Hong

Thursday, 30 July, 15.00 – 17.00
Chair:

Transition to Post-academic Science: Performance Indicators and Trust in Science
Tihamér Margitay

The Architectural History of a Chinese Village
Yuan Wang

Not Only Fermi. Edoardo Amaldi and the Rebirth of the Italian Physic
Luca Malagoli
The Biodiversity and Ecosystem Function Research Field: Intersections between Science, Politics, and the Public
Marcela Zalamea

Thursday, 30 July, 17.30 – 19.30
Chair:

Public Concern about Animal Experimentation and the Russian Academy of Sciences in 1904-1906
Natalia E. Beregoy

Women and Civilization in the Thought of Edvard Westermarck (1862–1939)
Niina M Timosaari

Investigative Report of State-owned Coal Mines for the Purpose of Understanding the Relationship of Science and Society in Mainland China
Li He

The Role of Shipbuilding and Navigation in the Development and Expansion of Mankind Civilization
Vladimir Nikitich Krasnov

Friday, 31 July, 11.30 – 13.30
Chair:

The Role of Science-documentary Movies in the 1930s’ in Hungary
Soma Redey

A Comparative History of the Formation of Passive Building Technology
Naoki Takuma, Hideto Nakajima, Naoki Yamano

The Relationship between Science Journals and the Media: A Lasting Marriage
Germana F Barata

Social Phenomenon of Continuity of Scientific Schools of Statistical Physics in Ukraine
Alla S. Lytvynko

Friday, 31 July, 15.00 – 17.00
Chair:

Critical Assessment of Nikola Tesla’s Legacy for Contemporary Science and Society
Tomislav Petkovic

The Role of the Referee in Royal Society of London at Nineteenth Century
Adriana Mattos

Image, Scientific Expedition, the Public, and Nation in Brazil (1870-1930)
Moema de R. Vergara

The 1853-1856 Cholera Morbus Epidemic in Portugal as Seen by the Press
Maria Antónia P. Almeida
T17 Science and Culture

Saturday, 1 August, 09.00 – 11.00
Chair: John Blackmore

- Measurement of Time, Length and Area in Southern India around 10th Century AD
  B S Shylaja
- Laboratory Culture in Academia
  Truus Van Bosstraeten
- Narrating the Beehive
  Tania Munz
- Credit for Idea, Credit for Experiments: the Authorship of the Doctoral Dissertation in Laboratory Sciences in the Eighteenth Century
  Ku-ming (Kevin) Chang

Saturday, 1 August, 11.30 – 13.30
Chair: Tania Munz

- Spinoza’s Place in the Genesis of Early Modern Psychology
  Igor S. Kaufman
- La Femme et l'Univers Végétal dans la Botanique Mise à la Portée de Tout le Monde
  Fernando Calderón
- Visuality and Portentous Weather in Early Modern Culture
  Maija Kallinen
- Collecting Practices and Circulating Objects: The Material Culture of Sciences in Mid 19th Century England
  Anastasia Filippoupoliti

Saturday, 1 August, 15.00 – 17.00
Chair:

- Japanese Chemical Industry and the “Chemicalization of Everyday Life” in East Asia, 1895-1945
  Shao-li Lu
- The Former Headquarters of the Board of Public Health and Its Role in Sanitary Reform at the Beginning of the 20th Century
  Benedito Tadeu Oliveira
- Biopolitics and Cultural Heritage in Brazil: The Nation Versions between World Wars
  Joel Birman
- Danjon and French Astronomy during the Second Part of the 20th Century
  Blackmore, John T.

Saturday, 1 August, 17.30 – 19.30
Chair: B.S. Shylaja

- Science in Culture and Culture in Science: Intertwining Experiences for Stimulating Curiosity in Children
  Breda Ćebulj Sajko
The Language of Science in a Globalizing World
Anna N. Gorodishcheva

Anti-Science: Its History and Features
Hongxia Sun

Bringing Science Communication to Public Behavior
Junping Hu

T18  Trans-cultural Diffusion of Science

Saturday, 1 August, 15.00 – 17.00
Chair: Imre Hronszky

Transformation and Assimilation: The Response of Chinese Literati to Western Crystalline Sphere in the Late Ming and Early Qing Period
Chengsheng Sun

Cultural Controversy in 18th Century England: The Transmission of Variolation
Alicia Grant

The Introduction of the Smithsonian Meteorological System in Japan
Kae Takarabe

Des Objets aux Gestes: Une Archéologie de l’École de Pharmacie de l'Ouro Preto, Minas Gerais, Brésil: 1890-1920
Myriam Bahia Lopes

Saturday, 1 August, 17.30 – 19.30
Chair: Myriam Bahia Lopes

Les Enjeux d'Un Média Visuel dans l'Entre-deux-guerres
Florence Riou

Paradigm of Transference of Sciences for Example Andalusia in Final of Medieval
Mohamadreza Pak

La Géologie en Algérie (fin XIXe-milieu XXe siècles): Origines et Développement d’Une Discipline au Service de l’État en Contexte Colonial
Yamina Bettahar

T19  Technology Transfer

Friday, 31 July, 17.30 – 19.30
Chair: Maria Elvira Callapez

The US Foreign Policy in the Early Period of the Cold War and the Introduction of Television Broadcasting and Atomic Energy to Japan
Kenzo Okuda

Digitization like Science
Rimvydas Lauzikas

Technology Transfer Constraints and the Portuguese Polymer Industry
Maria Elvira Callapez
Mercury Amalgamation in Hispanic America: Globalization of a Mining Technique in the Sixteenth Century
Jeannette Graulau

Ákos Varga

Analysis of the Soviet Technology Transfer in the Development of China’s Nuclear Weapons
Yanqiong Liu

T20 Gender in Science and Technology

Wednesday, 29 July, 15.00 – 17.00
Chair: Éva Vámos

Women Investigators at the Institute for Heredity Research in Berlin 1912-1928/33; First Results
Ida H. Stamhuis

Women Scientists and the Culture of Different Laboratory Practices – From the Industry to the Kaiser Wilhelm Society and Vice Versa
Annette B. Vogt

Women-scientists as an Object of the Governmental Propaganda in Soviet Union before the World War II
Olga A. Valkova

The Current Situation of Female Researchers in Japan
Mariko Ogawa

Wednesday, 29 July, 17.30 – 19.30
Chair: Ida Stamhuis

Gendered Elements in Chemical Thermodynamics: A Model for Conceptualizing Gender Ideology in the Content of the Physical Sciences
Ágnes Kovács

A Gender Perspective on Research Careers in Science and Technology during the Economical Transition in Russia
Anne-Sophie Godfroy-Genin, Vera Uvarova

Empowerment Process in the Rural Woman Promotuing by Public Policies
Maria Almanza, Paola Olivares

Pain and Child Birth: A Journey through the History of Obstetrics’ Anaesthetics in the 19th Century
Maria Alexandra Valadas

Gender, Culture and Power in the Social Construction of Menopause
Rebeca B Fertrin, Lea Velho
T21  Science and Political Context

Friday, 31 July, 11.30 – 13.30
Chair: Péter Szegedi

Ottoman Decadence Reflected in Dr. Essad's Ophthalmoscope
Seref Etker

History of Science and Nation-building: Identifying the “Turkish Contributions to Science,”
1870-1950
M. Alper Yalcinkaya

“For Paupers only!” The General Policlinic Vienna: Policy Laboratory and Counter University
Felicitas Seebacher

Did G. Mendel's Political Involvement Interfere with His Scientific Achievements during the Period 1853-1865?
Christiane L. Nivet

Friday, 31 July, 15.00 – 17.00
Chair: Mitchell Ash

Science, Nationalism and (Multi)Culturalism in the Late Habsburg Monarchy 1848-1918: A Preliminary Overview of the Issues
Mitchell Ash

Complementary or Competitive? National and International Science in 19th Century Habsburg Monarchy.
Jan J. Surman

„Staatsnation”, „Kulturnation”, „Nationalstaat”. Chances or Risks for Science and Scholarship in the Late Habsburg Monarchy?
Johannes Feichtinger

Scientific Nationalism
Gábor Palló

Saturday, 1 August, 09.00 – 11.00
Chair: Mitchell Ash

Patriotism, Nationalism and Internationalism. Chemists in the Czech National Enlightenment.
Soňa Štrbánová

To Be a Good Son of One's Nation… Czech Historians between National Program and Scientific Style
Antonín Kostlan

Racial Sciences in Hungary in the Decades around 1900
Emese Lafferton

Anthropological Disciplines in the Late Habsburg Monarchy
Irene Ranzmaier
Saturday, 1 August, 11.30 – 13.30  
*Chair: Rangel de Almeida, Joao*

Instruments of Paper, Overseas Agents, Distant Natural Objects: On the Spanish Instructions of the 18th Century  
*Marcelo Fabián Figueroa*

Vinegar, Fire and Smoke. Quarantine and Purification in the 1830-1851 Mediterranean Sea.  
*Joao Rangel de Almeida*

Nurses during the Spanish Civil War: The Political Participation of Women through Medical and Welfare Care  
*Dolores Martin Moruno*

Archaeology in the Tropics: Science and the 20th Century Portuguese Colonial Agenda  
*Ana Cristina Martins*

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Saturday, 1 August, 15.00 – 17.00  
*Chair: Valentin Bazhanov*

Popular Medical Manuals and Guidebooks in Late-18th Early-19th Century  
*Betania Goncalves Figueiredo*

Ideology and Mathematical Logic: The History of Soviet-Hungarian Ties before and after World War II  
*Valentin A. Bazhanov*

Imperial Ears: Ogawa Naoyoshi and the Colonial Linguistics in Early Twentieth Century Taiwan  
*Feng En Tu*

Philosophical Roots of Boris Hessen: A Criticism against the Myth of Hessen’s Externalism  
*Pablo Huerga Melcón*

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Saturday, 1 August, 17.30 – 19.30  
*Chair: Fabio de Sio*

An Ivory Tower Downtown: The Rise and Fall of the “Area per la Ricerca” in Naples (1965-1970)  
*Fabio De Sio, Mauro Capocci*

The Politics of Anatomy in Vienna  
* Tatjana Buklijas*

Plague, Cholera and the Expansion of Habsburg Medicine to the Ottoman Empire 1840-1860  
*Marcel Chahrour*

The Diaries of an Outstanding Physicist and Historian of Science – Sergey I. Vavilov  
*Vladimir Mihailovich Orel, Yuriy Ivanovich Krivonosov*
T22  Methodology and Sources for the History of Science and Technology

Wednesday, 29 July, 15.00 – 17.00
Chair: Levente Csóka

10 Years in the Research of the Water-powered Up-and-down Sawmill Programme in Szeklerland (Eastern Transylvania)
Tamás Pauló

The Role of Old Globes as a Multidisciplinary Source, in the Birth and Emergence of Porto University
Mónica C. Ramalho Oliveira

The Material Culture of the First Experimental Tests of Bell’s Theorem: An Analysis of the Experimental Apparatus (1972-82)
Wilson Fábio de Oliveira Bispo

Historical Development of Doors and Windows in the Carpathian Basin
Tamás Szemerey, Levente Csóka

Wednesday, 29 July, 17.30 – 19.30
Chair: Thomas A. S. Haddad

Aesthetic Principles in Evolution of Physics
Svitlana D. Gapochenko

Taking Practices as an Explanatory Source: Toward a Post-Needham Historiography of Chinese Science
Xiang Huang, Sergio Martinez

Astronomy and History of Astronomy in the Jesuit Mémoires de Trévoux (1701-1762): An Assessment of Themes and Modes of Presentation
Thomas A. S. Haddad

Hipparchus vs. Ptolemy and the Antikythera Mechanism. Pin/Slot Device Models Lunar Motions
Elias Gourtsoyannis

On Metrology of Bukhara Emirate of the End of XVIII – The Beginning of XX Centuries
Mahmudjon Sh. Kholov

T23  Science and Philosophy

Tuesday, 28 July, 11.30 – 13.30
Chair: Wojciech P. Grygiel

The Problem of Quality and Quantity in the Development of Science from Ancient Times to Present
Erwin Neuenschwander

Philosophy of Mathematics in the Warsaw School of Mathematical Logic: Tarski and Mostowski
Roman Murawski
The Role of Historical Approach in the Emergence of New Humanist Philosophy of Mathematics
Olga Kiss

Philosophy of Mathematics and Effects on Mathematics Education
Tuba Gökçek

Tuesday, 28 July, 15.00 – 17.00
Chair: Erwin Neuenschwander

Science and Philosophy
Kajal Sraman

The Relationship between Science and Philosophy – Historical and Theoretical Aspects
Boris Chendov

Enjeux Entre les Approches Historique et Logique de la Recherche Scientifique
Fabio Tenorio de Carvalho

Eugene Wigner and Philosophy: The Steps of his Philosophical Formation
Frederik M. dos Santos

Tuesday, 28 July, 17.00 – 19.30
Chair: Boris Chendov

Cultural and Historical Coexistence and Irrelevance of Presentist/Eternalist Debate
Alain Ulazia

Man’s Determination of Nature’s Cognition
Yuriy Kulkov

Casus or Philosophy and Representation of the Singular?
Natalia A. Kolodiy, Tatiana Konyukhova

Non-cognitive Values and Applications of Scientific Theories
Kelly I. Koide

Wednesday, 29 July, 09.00 – 11.00
Chair: Olga Kiss

History of Quarks as the Witness of Instrurealism in Observational-theoretical Distinction: Reconciliation of Scientific Realism and Instrumentalism
Musa Akrami

Physics-likeness of Science
Peeter Müürsepp

Historical Reasons and Possible Ways of the New Scientific Synthesis
Alexander E. Egoyan

Wednesday, 29 July, 11.30 – 13.30
Chair: Peeter Müürsepp

Was Einstein Right about Quantum Mechanics?
Fátima Masot Conde

Le Développement de la Théorie de la Relativité dans le Milieu Philosophique Français dans les Années 1920: Une Étude à Partir de l’Épistémologie Bach
José Ernan Carneiro Carvalho Filho, Michel Paty, Elyana Barbosa, Aurino Ribeiro Filho
String Theory – The Fall of Science?
Wojciech P. Grygiel

Einstein and Newton; Two Giant Philosophers – Scholars: Relativity Absorbs Quantum Gravitation and Negates Absolute!
Shiva Kaviani

T24 Science and Military Affairs

Friday, 31 July, 17.30 – 19.30
Chair: Emese Szoletzky (to be confirmed)

Turning Organic Chemistry into 'a Science rather than an Art': The Role of the US Military during and after World War II
Stephen J Weininger

The Quest for National Fuels, an International Matter of the Interwar
Camille Molles

Working Out of the Laser Weapon under the Program «Star Wars» in the USA
Anatoly Djemin

T25 Modernization and Development

Wednesday, 29 July, 15.00 – 17.00
Chair:

Forgotten “Industrial Warriors”: The Boom of Vocational Training in South Korea, 1967-1986
Tae-Ho Kim

A Review of the Observations of the Historian Kume Kunitake on Chemistry Education, Mining and Chemical Manufacturing in the West and in Japan in the True Accounts of the Iwakura Embassy to the United States of America and Europe 1871-1873
Yona Siderer, Masanori Kaji

Development of Transport Systems for Oil and Gas Delivery from Offshore Fields
Anna Lokshina

Bulgarian Dairy Industry Meets the (West) European, 1910-1940
Elitsa R. Stoilova

Wednesday, 29 July, 17.30 – 19.30
Chair:

The Gas Hydrocarbon Stock for Electroenergetic
Eldar M. Movsumzade, E.S.Bogacheva, M.Y.Karisalov, A.V.Borodin

Development of Mathematical Methods and Information Technology
T.A. Aliyev, N.Ch. Movsum-zade, Abdula E. Karayev

Development of Helium Industrial Production from Natural and Casing-head Oil Gases in Russia
Alik M. Syrkin, E.V. Stolypin, V.I Stolypin, N.L.Egutkin
Evolution of the Technologies and Technical Means for Offshore Oil and Gas Fields Development
Boris N. Mastobaev, Ayrat M. Shammazov

T26 Technology and Society

Tuesday, 28 July, 11.30 – 13.30
Chair:

Strategies for Simulation of View in the Production Agroindustry
Rubén D Bonilla Isaza, Milton Mauricio Herrera Ramírez

L’Usage du Marbre dans la Construction des Églises: la Technique au Service de la Symbolique dans la Spiritualité Chrétienne
Joëlle Petit

The Plot of Concrete in Brazil: A History of the Technology Diffusion of Reinforced Concrete
Roberto Eustaáquio dos Santos

De la Parade au Changement Climatique: Homme, Habitat et Isolation Thermique
Dominique Theile

Tuesday, 28 July, 15.00 – 17.00
Chair:

Risk Assessment and Risk Society: Winners and Losers in Genetic Discourse
Maria Alexandra Valadas, Carlos Melendez

Shattered Hopes – The Swedish Wood Gas Experience
AK Helena Ekerholm

A Chain of Technological Development in Japan after the WW II and Social Constructionism of Technology
Tadaaki Kimoto

Telescola: An Educational Television Project Developed in Portugal, in the 1960’s
Mária C. Almeida

Tuesday, 28 July, 17.30 – 19.30
Chair:

A Phenomenological Analysis of Facebook
Carlos R Melendez, Maria Alexandra Valadas

Development of High-tech and Social Fairness
Feng Zhang

The Necessity of Control of the Increasing Global Radiation Risk by Way of the Creation of the Complex System of the Two-united Radionuclide-ecological and the Medical-genome Monitoring (REMGM)
Alexandr P. Elokhin, Igor Ivanovich Suskov, Alexandr Ivanovich Glushchenko, Alexandr Prokopevich Elokhin, Larisa Stepanovna Baleva, Alla Evgenevna Sipyagina

The Most Common Technical Systems in the Service of the Mankind – History of Toilets
Petri S Juuti, Riikka P Rajala
Wednesday, 29 July, 09.00 – 11.00
Chair:

Long-term Thinking in Water Services in Finland  
Riikka P. Rajala, Petri S Juuti

Information Society as Surveillance Society  
László Molnár

Showmanship and Technological Futurism: The Middleton Family at the 1939 New York World's Fair  
Jaume Sastre-Juan

GM Rice Trial in Japan: Its Historical Background and Meaning  
Takako Nakajima

Wednesday, 29 July, 11.30 – 13.30
Chair:

Public Opinion towards Biotechnological Applications: Example of Turkey  
Oguz Ozdemir

One of the Ways to Solve Power and Environmental Problems: Application of the Superconductivity  
Liliia P. Ponomarenko

Social Agendas and Transdisciplinary Education as Engines for Radical Scientific Invention: Stanford Ovshinsky's Energy and Information Inventions  
Lillian Hoddeson

The Public Side of Technology: Patents Publications XVI-XVII Century  
Luisa Dolza

Wednesday, 29 July, 15.00 – 17.00
Chair:

History of Electric Energy in Brazil: The “Electromemory” Project – 1890 to 2005  
Gildo M Santos

A Brazilian in the Genesis of the Electronics Technology  
Francisco A. de Queiroz

New Rurality: Approaches and Synergies. Emergence of an Alternative Development Model  
Noriero Escalante Lucio, Almanza Sánchez María, Torres Carral Guillermo, Ramírez Miranda César Adrián

Technology’s Fingerprints on Social Crossroads  
Elena Lacatus

T27 Politics of Technology

Saturday, 1 August, 17.30 – 19.30
Chair:

Negotiating Neighbours – National and Transnational Politics of a Natural Gas Pipeline  
Anna Åberg
T28 Approaches to History of Science

Wednesday, 29 July, 09.00 – 11.00
Chair: Hayo Siemsen

Different Approaches to the History of Science and an Idea of the Optimal Doctoral Programs in the History of Science
Michal Kokowski

On the Resistance of the World
Ilksen N. Icen

Ernst Mach and George Sarton: The Genesis of Ideas in the History of Science
Hayo Siemsen, Karl Hayo Siemsen

Rosalind Franklin and the DNA Double – Helix: Historiographical Accounts
Marcos Rodrigues Da Silva

Wednesday, 29 July, 11.30 – 13.30
Chair: Robin W Scheffler

From the Local to the Global. The 'Circulation of Knowledge', a Promising Perspective?
Bart Karstens

Yangzhou Scholars’ Eyes On Jesuit Science: Reflections on the Chouren zhuan
Ling-Hsuan Shih

Le « Degré Zéro » de la Nanotechnologie : à Propos de Feynman Comme Précurseur
Marcos A. G. Nalli

Interests and Instrument: A Micro-history of Object Wh. 3469 (X-ray Diffraction Powder Camera c. 1940)
Robin W Scheffler

T29 Darwin 1809-1859-2009

Wednesday, 29 July, 15.00 – 17.00
Chair: György Kamps

The Dialectical Structure of Darwin’s Argumentation
Anna Carolina Regner

History and Philosophy of Science on Trial
David W Mercer

The Introduction of Darwin in Portuguese Science and Culture (1865-1914)
Ana Leonor Pereira
Pedro R. G. Fonseca

Wednesday, 29 July, 17.30 – 19.30
Chair: Marco Stella

The Development of Darwinism by Ukrainian Zoologists (End of XIXth – Beginning of XXth Century)
Oleg Pilipchuk

What Had Happened if Darwin Had Known Mendel (or Mendel’s Work)?
Pablo Lorenzano

Darwinism and the Study of Behavior: The Case of “Clever Horses from Elberfeld”
Marco Stella

T30 Galileo 1609-2009

Wednesday, 29 July, 09.00 – 11.00
Chair: Lajos Bartha

On Mechanical Science: Leonardo, Tartaglia, Galilei and Lorini
Raffaele Pisano, Danilo Capecchi

Galileo's Military Compass and the Context for Mathematical Physics
Nikhil Bhattacharya

"La Ragione del Vacuo". Why and How Galileo Measured the Resistance of Vacuum
Cesare S. Maffioli

Observer Point of View as an Argument for Physical Knowledge (from Galileo to Hawking)
Igor D. Nevvazhay

T31 History of Science in Education

Tuesday, 28 July, 11.30 – 13.30
Chair: Michael R. Matthews

"Les Magiciens de la Lumière" or "Wizards with Light", a Film Tracing the History of the Speed of Light
Pierre Lauginie, Serge Guyon, Christine Azémar, Laurent Baraton, Alain Sarfati

Historical Artefacts - Direct and Indirect Evidences for Evolution in Biology Curricula
Gergely Kertész

Science and Worldviews in the Classroom: Joseph Priestley and Photosynthesis
Michael R. Matthews

George Sarton’s Viewpoints on the Teaching of the History of Science
Longhu Qiu
Tuesday, 28 July, 15.00 – 17.00
Chair: Jan Mikes

“The First Days of Electricity”: Teaching Proposal for the Exploration of the History of Electricity Using a Scientific Instrument Collection
Flora Paparou, Alexandra Karaliota

Analyses of the Historical Thermodynamics Contents in the Physical Chemistry Textbooks Used in Brazil
Glaucia M Da Silva, Leo Degreve, Giovana Aline Moi

New Attitudes to the Technical History Research, by Way of an Example: Modelling of the Electrotechnical Origins in Czech Countries
Jan Mikeš, Marcela Efémertová

Invisible Vapor: Electric Motors from the Perspective of the History of Electricity
Kemal Yurumezoglu, Ayse Oguz

Tuesday, 28 July, 17.30 – 19.30
Chair: Nicla Palladino

Science Students’ Description of an Atom: A Comparative Epistemological Analysis
Ayse Oguz, Husamettin Akcay, Dilek Akyol

Idea of Universal Mathematical Instrument in Jacobi’s Tracts
Milyausha Ananyeva

The Models of Mathematical Surfaces and the Anaglyphs: Their Historical Origin, Didactics Applications, Actual Use in Image Communication
Nicla Palladino

Coexistence of History of Mathematics and Modern Mathematics
Saeed Banihashemi

Wednesday, 29 July, 09.00 – 11.00
Chair: Gergely Kertész

Outputs of the Science History Course: The Sample of KTU Department of Computer Education & Instructional Technologies
Emine Timuçin, Sakine Sensoy-Öngöz

Historical and Scientific Material in Professional Training of Teachers
Irina Vlasova

Cláudia Faria, Gonçalo Pereira, Isabel Chagas

A Few Stories from Biochemistry and Molecular Biology
Carme Zaragoza Domenech, Josep M. Fernández Novell

Wednesday, 29 July, 11.30 – 13.00
Chair: Thomas L. Isenhour

EPMagazine from the Students to the Students
Angelo Rapisarda

Can You Tell Me What the Science Is?
Zeynep Haliloglu Tatlı, Alipaşa Ayas, Rabia Yıldız
T32 Science in Social Context

Friday, 31 July, 11.30 – 13.30
Chair:

La Géologie en Algérie (fin XIXe-milieu XXe Siècles) : Origines et Développement d’Une Discipline au Service de l’État en Contexte Colonial
Yamina Bettahar

Paradox of Interdisciplinarity Revisited (Curriculum Vitae of a Discipline)
György Darvas

Catarina C. Silva

The Formation of a Space-rocket and Radio Technologies: Personality and Politics
Vassili M. Chesnov

Friday, 31 July, 15.00 – 17.00
Chair:

The Eclipse, the Astronomer, and His Audience: Federico Oom and the Total Solar Eclipse of 28 May 1900 in Portugal
Luís Miguel Carolino

Scientific Achievements - The Starting Factor of Country Innovative Development
Valeriy Grigoryev

Interpreting the Cephaloscope: Instruments, Diagnosis, and the Medicalization of the Deaf, 1800-1850
Jaipreet Virdi

The Roots of the Modern Social and Welfare State and the Ideas of the Vienna Scientific Essayist on Social Reform Rudolf Goldscheid (1870-1931)
Gudrun Exner

Friday, 31 July, 17.30 – 19.30
Chair:

Romance of an Indigenous Chemical Enterprise in Kolkata – Case of East India Pharmaceutical Works Limited
Malika Basu(Ghosh)

T35 Scientific Instruments

Thursday, 30 July, 15.00 – 17.00
Chair: Vasily Borisov

The Unilever Collection and the Dilemma’s of Collecting Modern Scientific Instruments
Ad Maas
The Project "EPMOSPHERE": The Old French Armillary Sphere of Lomonosov Museum as the Object of the International Education, Restoration, Research
Tatiana M. Moiseeva

Gnomon: A Mediating Instrument for Drawing, through Historical Origin, Morphological Construction and Use
Panagiotis N. Delikanlis

Greenhouses as Instruments for Controlling Research Climates
Alistair M. Kwan

Thursday, 30 July, 17.30 – 19.30
Chair: Steven Turner

Wavefront Sensing. A Non Contact Technique for the Assessment of Optical Instruments
Santiago Vallmitjana, Carme Ferran

An Apparatus for Demonstrating the Imperishability of Forces of Nature
Jan Tapdrup

How the Interferometer Changed Ideas about Nature
Harry H. Mark

Controversy over the Reliability of Wind Tunnels in Early British Aeronautical Research
Takehiko Hashimoto

Friday, 31 July, 11.30 – 13.30
Chair: Stephen Johnston

The Taly Range – An Introduction to a Remarkable Family of Instruments of Precision Measurement
John S Reid, Michael A. Player

Canterbury Tales: Medieval Instruments in Social Context
Silke Ackermann

Geography, Astronomy and Mathematical Instruments in 16th-century Europe
Katie Taylor

The Planetarium by Hartog van Laun
Hans Hooijmaijers

Friday, 31 July, 15.00 – 17.00
Chair: Paolo Brenni

Telescopes as Decorative Art
Marvin Bolt

Scoping Longitude: Optical Designs for Navigation at Sea
Richard Dunn

Astronomical Instruments for Gazing and Measuring
James Caplan

The Schmidt Telescope – A Highlight in Astrophotography
Gudrun Wolfschmidt
Friday, 31 July, 17.30 – 19.30
Chair: Gloria Clifton

Teaching and Research: Shifting Trajectories of Science at Georgetown University in the Nineteenth Century
Dana A. Freiburger

Ranking the Stars; the Magnum Opus of J.C. Kapteyn
Jan W. Huisman

Astronomical Sites and Instruments as World Heritage: The Case of 19th and 20th Century Observatories
Françoise C. Le Guet Tully, Jean Davoineau

Advanced Instruments and Informal Scientific Bodies: The First Observations of Venus and Mercury by Radar
Vasily P. Borisov

Saturday, 1 August, 11.30 – 13.30
Chair: Richard Kremer

Instruments of Music as Instruments of Science: Hermann von Helmholtz's Sound Sensation Studies, His Classicism, and His Beethoven Sonata
Alexandra E. Hui

The Early Years of Histological Research at Ghent University (Belgium)
Kristel Wautier, Alexander Jonckheere, Danny Segers

Bringing Physics to the Physicians
Robert D. Hicks

What Happened on the East River: The Synergy of Scientific Instrument Development at the Rockefeller Institute and the RF Virus Laboratory
Darwin H. Stapleton

Saturday, 1 August, 15.00 – 17.00
Chair: Peggy Kidwell

Doing it by the Book
Tacye Phillipson

Liebig’s Kaliapparat: A Case Study on the Material Culture of Chemistry
Sara R. D. S. Carvalho

Buying Instruments: Costs of an Experimental Culture. The Case of the Physics Laboratory at Padua University (1847-1857)
Christian Carletti

En Route to the „German Chronometer“: The Introduction of Precision Timekeeping in the German Mercantile Marine and Imperial Navy in the 19th Century
Günther Oestmann

Saturday, 1 August, 17.30 – 19.30
Chair: Tacye Phillipson

Models as Material Ideas. Teaching Useful Knowledge with Irenical Instruments in the Early Enlightenment
Kelly J. Whitmer
The Inclined Plane: A New Look at a (Very) Old Instrument
Steven C. Turner

Scientific Instruments in the Polytechnic School of Lisbon: The 19th Century Collection of Optical Instruments
I. Marília Peres

Skinner Box in Psychology Didactic Laboratories in Brazil
Sergio D. Cirino, Kennon A. Lattal, Rodrigo L. Miranda, Rbson N. Cruz

18th Century Electrical Experiments at Yale College
Shae A Trewin

T36 Studies in the History of Metrology

Wednesday, 29 July, 09.00 – 11.00
Chair:

Foundation for Traditional Chinese Metrology Museum
Zhelei Xia, Wei Huang, Jiebin Lang, Xinming Jiang

Résolution Numérique d’Un Problème Métrologique: le Pied, la Perche et l’Acre d’Angleterre
Olivier Reguin

La Métrologie Historique en France Depuis un Demi-siècle
Jean-Claude Hocquet

La Coordination Métrologique et la Spatialité dans le Cas de Quelques Petites Églises Romanes en Bourgogne
Masatsugu Nishida

Wednesday, 29 July, 11.30 – 13.30
Chair:

A Study on Ying Biao Yi – A New View on the Important Document in the History of Metrology in China
Yuzhen Guan

On Historical Development of Chinese Metrology
Zengjian Guan

Material Metrology and the Strange Pyramidology of C. Piazzi Smyth
Michael J Barany

The Management of Chinese Time Metrology in the Period of the Tang Dynasty – Administrative Organs, System and Legal Precedent of Clepsydra
YONGL-iang Ji

Wednesday, 29 July, 15.00 – 17.00
Chair:

The Emergence of Macroscopic Quantum Effects and the New International System of Units (SI 2011) Based upon Fundamental Constants
Heinz Luebbig

History of Precise Reading for Measuring Instruments
Eiju Matsumoto
On the Evolution and its Impact of the Metrological Units of Traditional Chinese Medicine in Ancient China
Rentian Ji

Junlin Yu

Wednesday, 29 July, 17.30 – 19.30
Chair:

The Portuguese Marco – The First Measurement Standard Travelling around the World
Antonio Cruz

The Measurement of the Standard Time in the Republic of China
Vilin Sun

Historical Review on Pre-metric Metrology in the Netherlands
Shigeru Kurosu

T37 Controversies and Methodology in the History of Science
Room: A5

Friday, 31 July, 11.30 – 13.30
Chair: Gábor Zemplén

Leibniz’s Method of Conciliation of the Opposites in a Scientific Controversy
Marcelo Dascal, Erez Firt

Metaphysics, Physics, and Methodology in the Vis Viva Controversy
Idan Shimony

Hume's Experimental Method
Tamás Demeter

Discussion

Friday, 31 July, 15.00 – 17.00
Chair: Marcelo Dascal

Methodology as an Argumentative Tool in Debates around Newton’s Theory of Light and Colours
Gábor Á. Zemplén

Controversy Studies: Another Field of Scientific Meta-expertise?
Gábor Kutrovátz

Discussion

T38 Scientific Controversies

Wednesday, 29 July, 11.30 – 13.30
Chair:

Science between Emancipation and Adaptation
Gernot Stimmer
The Dispute about Culture(s). Controversies in the Social and Cultural Sciences and What We Can Learn from Them.
Manfred Fraunlob

Intuition versus Science: The Limits of Reason in a World of Emotions
Rainer Born, Eva Gatarik

The Predominance of the Organismic Construction over Physiological and Genetical Mechanisms
Karl Edlinger

Wednesday, 29 July, 15.00 – 17.00
Chair:

Energy Controversy
Katalin Martinás

Reductionistic versus Systemic Concepts in Emotion Research
Manfred Wimmer

Psychological or Physiological: Which Suit Should We Wear?
Shulamith Kreitler

Science or Pseudoscience: The Strange Case of Parapsychology
 Günther Fleck

Wednesday, 29 July, 17.30 – 19.30
Chair:

Therapy According to Diagnosis or Vice Versa?
Dagmar Eigner

Controversies in Thermodynamics
László Ropolyi

Miller's Experiments: A Relativistic Controversy
Roberto Lalli

T39 History of Cognitive Science

Tuesday, 28 July, 11.30 – 13.30
Chair: Lillia Gurova

Prehistory of Cognitive Science
Andrew Brook

Interdisciplinary Issues in Early Cybernetics
Leone Montagnini
On the Criterion for Deciding whether Machines Can Think
Stefan Riegelnik

History of Humanoid Robots
Basak Yuksel, Yoshihiko Nakamura

Tuesday, 28 July, 15.00 – 17.00
Chair: Csaba Pléh

Behaviourism and Cognitivism - On the Roots of Cognitive Sciences
Gabriele M Mras

From Today’s Crisis in Cognitive Science to Yesterday’s Crisis in Psychology
Nicole Rossmanith, Andreas Reichelt

Models of the Mind throughout the History of Cognitive Science
Sven Walter

Thirty Years Cognitive Studies of Categorization: What’s behind the Reported Progress
Lilia Gurova

Tuesday, 28 July, 17.30 – 19.30
Chair: László Ropolyi

Cognitive Science between Biology and the Social Sciences Abstraction, Isolation, Re-opening
Andreas F Reichelt, Nicole Rossmanith

Then and Now: Cognitive Science and Economics
Filomena De Sousa

The Right Hemisphere of Cognitive Science
Bálint Forgács

Wednesday, 29 July, 09.00 – 11.00
Chair: Nicole Rossmanith

Anthropomorphism as a Demarcation Criterion in the History of the Hungarian Cognitive Dog-ethology
Katalin Mund

Animal Memory and the Origins of Mind: The Conception of Lajos Kardos, a Hungarian Comparative Psychologist
Csaba Pléh

T40 Pioneering Ideas and Methods in the History of Earth Sciences

Saturday, 1 August, 15.00 – 17.00
Chair:

Analytical Method of Mineral Waters Developed by Károly Than Chemist (1834-1908)
Irma Dobos, András Bartha

History of the Geonomical Concept and the Hungarian School of Geonomy in the Second Half of XX. Century
Terézia Póka
Giuseppe Folgheraiter the Italian Pionier of Archaeomagnetism
Claudia Principe, Jonas Malfatti, Yves Gallet, Maxime Le Goff, Agnes Genevey

Relevant Cartographical Maps Made and Used by Geographers in the Carpathian-Danubian-Pontic Area, in the 17-20th Centuries
Horia Salca, Doina Suteu

T41 Some Methodological Aspects of History of Science
Room: A13
Friday, 31 August, 17.30 – 19.30
Chair: Roberto Angeloni

Why does the Traditional Distinction between Internal and External History not Hold?
Roberto Angeloni

Principles of Determination of Discovery Convention Priorities
Aleksandr Pilipenko

Methodological Issues of the History of Soviet Psychology between the Two World Wars:
Case Study of Vygotsky Circle
Anton Yasnitsky
Detailed Programme of Symposia

S01 Ancient and Medieval Astronomy with Special Emphasis on its Socio-cultural Context
Organisers: S. M. Razaullah Ansari, Julio Samso, Anne Tihon (India/Spain/Belgium)

Session I.: Ptolemy, his Writings and their Transmission: Status of Present Research
Wednesday, 29 July, 15.00 – 17.00
Chair: Alexander R Jones

Babylonian and Greek Antecedents of Ptolemy's Tables
Alexander R. Jones

Ptolemy and his Time: Un Unedited Astronomical Papyrus
Anne Tihon

Introducing the Edition of the Handy Tables of Ptolemy
Raymond Mercier

Ibn al-Raqqam's al-Zij al-Mustawfi
Julio Samso

Session II.: Contextual Oriental Studies
Wednesday, 29 July, 17.30 – 19.30
Chair: Julio Samso

Ptolemaism in al-Andalus: Jābir b. Aflah and the Evolution of the Term Hay'a
José Bellver

Tasyir in the Islamic West: Ibn Abi-l-rijal and Alfonso X
Montse Díaz-Fajardo

Jagannātha’s Samrāt-siddhānta: A Translation of Almagest into Sanskrit
Ramasubramanian K. Sharma

The Indian Scholar Khayrullah Muhandis and His Persian Translation of Al–Tusi
Recension of Almagest
S. M. Razaullah Ansari

Thursday, 30 July, 15.00 – 17.00
Chair: Raymond Mercier

Buddhist Astronomy in its Cultural Context
Michio Yano

Patronage of Astronomy and Astrology in Post-classical Islamic Societies
Sonja Brentjes

Knowledge Secrecy and the Chinese Assimilation of Islamic Astronomy in the 14th Century
Yunli Shi

The Impact of the Telescope on Astronomy and Society in China
Xiaochun Sun
Thursday, 30 July, 17.30 – 19.30  
Chair: Anne Tihon

Yavana-yantra to Yantra-râja  
Sreeramula Rajeswara Sarma

Astronomy Part of the Kerala Work, Yuktibhasa (circa 1530 CE)  
Sriram Subrahmanya Myyasandra

A Survey of Persian Zijes in Extant in Iran With Special Stress on Their Use in Medieval Iranian Society  
Farid Ghassemloiu, Fariba Sabet

Final Remarks by the Chair of Organizing Committee

S03 Status in Mathematics: In Particular the Role of Applications in the First World War  
Organisers: Jeremy Gray, Reinhard Siegmund-Schultze (UK/Norway)

Thursday, 30 July, 15.00 – 17.00  
Chair: Michael Eckert

The Rise of Complex Analysis in France and Germany  
Jeremy J. Gray

Cauchy's and Weierstrass's 'Schools' on Complex Function Theory: a Comparison  
Umberto Bottazzini

Function Theory for War: Ballistics and Fluid Mechanics in France, 1915-1930  
David Aubin

The British Use of Mathematics in the First World War  
June E. Barrow-Green

Thursday, 30 July, 17.30 – 19.30  
Chair: June Barrow-Green

Developing a Theory of Ballistics from Experimentation and Mathematics: Oswald Veblen, Forest Ray Moulton, and the Aberdeen Proving Ground Project  
Deborah Kent

The Rise of Exterior Ballistics in America, 1880-1929  
Alan Gluchoff

Mathematics in a Dead End: Arnold Sommerfeld and the Turbulence Problem of the Early 20th Century  
Michael Eckert

Richard von Mises: a Pioneer of Practical and Theoretical Aerodynamics  
Reinhard Siegmund-Schultze

Aviation and Aerodynamics Alongside Mathematics: The Case of the University of Leipzig  
Karl-Heinz Schlote
S04 Mathematical Analysis from the Eighteenth to the Nineteenth Centuries
Organisers: Craig Fraser, Michiyo Nakane (Canada/Japan)

Tuesday, 28 July, 11.30 – 13.30
Chair: Michiyo Nakane

Elaboration of Euler's Ideas on Series in the Early 19th Century
Hans Niels Jahnke

Euler and Functions of a Complex Variable
Craig G. Fraser

Two Ways of Understanding the Nature of Transcendental Functions in Mathematical Analysis
Carlos Alvarez

From Lagrange to Frege: Is a Function an Expression?
Marco Panza

Tuesday, 28 July, 15.00 – 17.00
Chair: Craig Fraser

Da Cunha, Stockler and Mathematical Analysis in Portugal in the Period 1770-1820
Luis R. Saraiva

Le Statut de l'Analyse Mathématique : de l'Encyclopédie au Cours de l'Ecole Polytechnique
Christian Gilain

Numbers, Limits and Continuity in Gauss
Giovanni Ferraro

“Throwing Some Light on the Vast Darkness that is Analysis”: Niels Henrik Abel's Contributions to the Reorientation of Analysis in the 1820s
Henrik Kragh Sørensen

Tuesday, 28 July, 17.30 – 19.30
Chair: Hans Niels Jahnke

What Makes Mathematical Analysis Rigorous? Counterexamples and Pathological Functions
Michiyo Nakane

The Place of Analysis in 19th Century British Mathematics
Adrian Rice

Mittag-Leffler and Weierstrassian Analysis
Laura E. Turner

Rigour vs. Intuition: Teaching and Research in Analysis in Turin in the Second Half of the Nineteenth Century
Erika Luciano
S06 Transmission and Transformation of Mathematics and Mathematical Instruments in their Social Contexts, East and West
Organisers: Joseph W. Dauben, Liu Dun (USA/P. R. China)

Saturday, 1 August, 09.00 – 11.00
Chair: Joseph W. Dauben

Qin Jiushao’s Divining Method and in Which the Mathematical Theory Contained
Gang Hou

The Introduction of Napier’s Rods in China
Jose A. Cervera

Karel Slavíček and Yan Jiale Method
Dun Liu

On the History of a Compass
Galina A. Zverkina

Saturday, 1 August, 11.30 – 13.30
Chair: Dun Liu

Circles and Squares, Cubes and Spheres, East and West
Joseph W. Dauben

Leibniz’s View of the I Ching
Mary Sol de Mora Charles

The Calculating Program of the Lunar Theory in Yuzhi Lixiang Kaocheng (1725)
Dalong Lu

“Wasan” Mathematicians, Technocrats and Samurai during the Edo Period in Japan – Seki Takakazu’s Residence and the Social Status of Mathematicians
Shigeru Jochi

Trigonometric Tables, Their Utility, and Making in
Jiang-Ping Jeff Chen

S07 The Nature and Aims of Prediction in Ancient Science
Organiser: Francesca Rochberg (USA)

Friday, 31 July, 17.30 – 19.30
Chair:

Prediction From and in the Sky in Babylonia
Hermann Hunger

“Inference From Signs and Prediction”
Francesca Rochberg

The Earliest Scientific Predictions
John P. Britton

Babylonian Period Relations
Teije de Jong
S08 Ideas and Instruments in the Development of Physics and their Use in Science Education
Organisers: Art Stinner, Jürgen Teichmann, Peter Heering (Canada/Germany/Germany)

Session I.: From Mechanics to Electromagnetism
Tuesday, 28 July, 15.00 – 17.00
Chair:

Atwood's Machine: A Historical Case Study to Complement and Enrich Contemporary Methods of Teaching Newton’s Laws of Motion.
Arthur Stinner

Joule’s Electromagnetic Rotor and Paddle Wheel Apparatus
Giorgio Dragoni, Martina Lodi

The Hero and the Dragon-Fraunhofer and the Dark Lines of the Sun’s Spectrum
Jürgen Teichmann

The Induction Coil and the Electromagnetic Waves
Sándor Jeszenszky

From Electromagnetic Waves to Einstein
Tuesday, 28 July, 17.30 – 19.30
Chair:

The Changing Meanings of Precision - from Coulomb to Gauss and Weber
Susanne Heinicke, Peter Heering

The Eötvös Apparatus: The Equivalence of Internal and Gravitational Mass
László Kovács

The Experimental Confirmation of Einstein's 'Heuristic' to Explain the Photoelectric Effect: Going Beyond the Textbook Presentation
Mansoor Niaz

General discussion and closing remarks
Art Stinner, Jürgen Teichmann

S09 Islamic Science in Context: Texts, Instruments, Locales, and Institutions “in Memory of Professor Edward S. Kennedy"
Organisers: Jamil Ragep, Mercè Comes Maymó (Canada/Spain)

Session I.: Practical Astronomy and Instrumentation: Use and Wider Significance
Tuesday, 28 July, 11.30 – 13.30
Chair:

Trigonometric Instruments in Medieval Islam. New Perspectives and Possibilities
Emilia Calvo
Medieval Arabic Astronomical Instruments With Astrological Functions
Josep Casulleras

Exposing the Forgery of an Astronomical Instrument: an Alleged Moroccan Astrolabe Dated 1845
Ingrid Hehmeyer

The Simple Version of the Sarrājiyya Instrument (14C): Textual and Technical Remarks
Roser Puig

Mathematical Astrology in Astronomical Handbooks
Benno van Dalen

Session II.: The Multifarious Contexts of Islamic Science
Tuesday, 28 July, 15.00 – 17.00
Chair:

Bīmāristān al-Manṣūrī: State and Medical Practice in Mamluk Egypt (1285-1304)
Ahmed Ragab

The Boundaries of Trigonometry: Al-Samaw'al and the 480-Degree Circle
Glen R. Van Brummelen

Environmental Studies about Cities in Medieval Islam
Lutfallah Gari

The Sultan and the Stars: The Kitab al-Tabsira fi ʿilm al-nujum of al-Ashraf Umar
Petra G. Schmidl

Several Remarks on the “Ashkāl al-Ta’sīs” by al-Samarqandī and Commentaries on it by al-Rūmī
Irina Lyuter

Session III.: Philosophical and Theological Contexts of Islamic Science
Tuesday, 28 July, 17.30 – 19.30
Chair:

“Stealing the Water” and Commenting on the Void. Philosophical and Technological Aspects of the Greek and Arabic Perceptions of the Clepsydra
Constantin Canavas

A Hidden School: The Scientists-philosophers of the 12th Century in al-Andalus
Miquel Forcada

Astrology in Early Kalām and Tafsīr
Robert G. Morrison

Session IV.: Geographical Knowledge and Nautical Application
Wednesday, 29 July, 09.00 – 11.00
Chair:

Ibn Fadlallah on the Nautical Winds
Mónica Herrera-Casais, Mohsen Zakeri

al-Mursî's Nautical Chart in the Mediterranean Context
M. Mercè Comes
The Qibla, From the Sky to the Sea
Monica Rius

Le Géographe a l'Idrisi dans l'Historiographie Espagnole Pendant les XVIIIe et XIXe Siècles
Juan Martos Quesada

S12 Ideas and Instruments in the Social Context in the Ottoman Empire and the National States
Organisers: Ekmeleddin Ihsanoglu, Efthymios Nicolaidis, Tuncay Zorlu (/Turkey/Greece)

Friday, 31 July, 15.00 – 17.00
Chair: Ekmeleddin Ihsanoglu

Evolution, Functioning and Capacity of the Mediterranean Windmills
Atilla Bir, Mustafa Kaçar

The Ottoman Royal Cannon Foundry: “Tophane-I Amire”
Salim Ayduz

Shemseddin Sami's Treatise of Astronomy, 'Gok' (Sky): An Effort in the Way of Formation of Turkish Scientific Language
Sevtap Kadioglu

An Analysis of Qushjī’s Astronomical Textbooks
Tofigh Heidarzadeh

Friday, 31 July, 17.30 – 19.30
Chair: Tuncay Zorlu

Engineering Periodicals in the Ottoman Turkish
Cuneyd Okay, Tuncay Zorlu

Ottoman Nautical Terminology as Attested in the 18th Century Sources
Tuncay Zorlu

Locks and Keys: Their Story From Past to Present
Semra Saracoglu, Bulent Karakas

Books on Darwin and Darwinism in the Ottoman Empire
Cemil Ozan Ceyhan

Saturday, 1 August, 09.00 – 11.00
Chair: Constantine Skordoulis

The Point and Importance of Works of the Nasiruddin Tusi in the Ottoman World
Nihal Ozdemir

Ottoman Phd Dissertations of Chemistry Completed in European Universities
Emre Dolen

First instruments of the National Observatory of Athens. When. From Where, Why and How.
Panagiotis G. Lazos

The Reception of Ernst Haeckel's Ideas in Greece
Constantine D. Skordoulis, Kyriakos Kyriakou
Saturday, 1 August, 11.30 – 13.30
Chair: Mustafa Kacra

The Interaction Between Mathematics and Greek Trade During the Period of the Ottoman Occupation
Maria Terdimou

The Foundation and Early Phase of the Imperial Observatory of Constantinople
Christophe Benoist

Fotini Assimacopoulou, Konstantinos Chatzis

S13  Darwin Outside Europe: Ideas of Evolution in Comparative and Global Perspective
Organisers: Cemil Aydin, Marwa Elshakry (USA)

Wednesday, 29 July, 15.00 – 17.00
Chair: Olga Restrepo Forero

Darwinism After 1945: The State and Fate of 'Evolution' in Early Cold War Culture
Christian Geulen

Moving Darwin / Tales of the Travels of Darwinism
Olga Restrepo Forero, Malcolm Ashmore

Yağdollah Sahâbî’s Defence of the Theory of Evolution
Martin Riexinger

Darwin in Non-Western Nationalist Thought
Cemil Aydin

S14  The Commerce of Science: Exchanging Objects, Instruments and Ideas in the Early Modern World
Organisers: Daniel Margocsy, Mario Biagioli (Hungary/Italy)

Room:

Session I.: Owning and Selling Instruments
Wednesday, 29 July, 15.00 – 17.00
Chair: Harold Cook

Georg Hartmann and the Beginnings of the Printed Scientific Instruments Trade
Suzanne Karr Schmidt

Trading Up: Instruments and Architecture in Early-Modern England
Stephen A. Johnston

Session II.: The Circuits of Natural History

"Mutations in Meaning: Collecting and Transporting Nature as Image, Word, and Thing in the Spanish Empire"
Daniela Bleichmar

Trading Places: Domestic Worlds and Materials of Scientific Exchange in Early Enlightenment Danzig
Alix Cooper
Wednesday, 29 July, 17.30 – 19.30
Chair: Stephen Johnston

The Price of Mobility: Transporting Exotic Animals in Early Modern Europe
Daniel Margocsy

Session III. : Science and the State

Commerce and Science in the Dutch Republic
Harold J. Cook

A Sampling History of Autodidacticism
Avner Ben-Zaken

Scientific Practice as Political Economy in the English Atlantic Empire, 1650-1688
Matthew Underwood

S15 Chemistry in the Aftermath of World Wars
Organisers: Yasu Furukawa, Ernst Homburg, Jeffrey Johnson, Gábor Palló (Japan/The Netherlands/USA/Hungary)

Session I.: Chemistry and Chemical Industry in the Aftermath of World War I.
Wednesday, 29 July, 11.30 – 13.30
Chair: Yasu Furukawa

The Impact of World War I upon Japanese chemistry
Yoshiyuki Kikuchi

French chemists and the reorganization of chemistry in the international community after the First World War
Danielle M. E. Fauque

Soviet Chemistry after the Civil War
Yakov M. Rabkin

Crisis, Change and Creativity in Science and Technology (Keynote address)
Jeffrey A. Johnson

Session II.: Chemistry and Chemical Industry in the Aftermath of World War II.
Wednesday, 29 July, 15.00 – 17.00
Chair: Ernst Homburg

World War II, the Cold War and British Women Chemists
Sally M. Horrocks

The Difficult Beginning of the German-Israeli Scientific Cooperation
Ute Deichmann

Chemistry at the University of Strasbourg in the Aftermath of World Wars I and II
Pierre Laszlo

Commentary
Carsten Reinhardt
Session III.: Chemical Technology Transfer in the Aftermath of Two World Wars
Wednesday, 29 July, 17.30 – 19.30
Chair: Gábor Palló

Isolation & Innovation: German Chemicals and American Political Economy after World War I
Kathryn Steen

Role of Prettre’s Lyons Laboratory in the Postwar Development of Fischer-Tropsch Synthetic Oil Technology in France.
Baptiste Voillequin

Postwar Transfer of Synthetic Rubber Technology Between Germany, Russia and the USA
Peter J. T. Morris

Commentary
Anthony S. Travis

S16 Mathematics in the Austrian-Hungarian Empire
Organisers: Christa Binder, Martina Becvarova (Austria/Czech Republic)

Saturday, 1 August, 09.00 – 11.00
Chair: Martina Becvarova

The Mathematics and its Professors at the Mining (and Forestry) Academy in Schemnitz
Miroslav Tibor Morovics

Muslim Ideas and Instruments in the Mathematics and Astronomy of Austria-Hungary
Harald Gropp

Mathematical Education in the Province of Voivodina Within the Habsburg Monarchy
Aleksandar M. Nikolić

Greek Mathematical Publications in Vienna in the 18th-19th centuries
Christine Phili

Saturday, 1 August, 11.30 – 13.30
Chair: Christina Phili

The Reception of Bolyai’s Geometry in the Austrian-Hungarian Empire
Katalin Munkacsy

Franc Hočevar - Textbooks Writer
Nada Razpet

Franc Hočevar and His Scientific Work
Marko Razpet

Wilhelm Matzka (1798–1891) and His Position in the Austro-Hungarian Mathematics
Michaela Chochołova

Saturday, 1 August, 15.00 – 17.00
Chair: Peter Schmitt

Czech Mathematicians and Their Role in the Development of Mathematics in the Balkans
Martina Becvarova
“The Crisis of Intuition” – Austrian-Hungarian Contributions in the Quest of Defining the Mathematical Term “Dimension” From the 1850´s to the 1920’s

Bernhard Johann Karl Beham

Karel Pelz an Outstanding Geometer of the 19th Century

Marta Pémová, Zita Sklenáriková

The Appointment Policy in the Austro-Hungarian Monarchy

Christa Binder, Michaela Chocolova, Katalin Munkácsy, Christine Phili, Martina Becvarova, Marko Razped, Nada Razped, Bernhard Beham

Saturday, 1 August, 17.30 – 19.30
Chair: Christa Binder

Mathematics in Lwów Before the Famous Lwów Mathematical School

Stanislaw Domoradzki

S17 Mathematical Discoveries and Demonstrations: East and West

Organisers: Chikara Sasaki, Helène Bellosta, Ioannis Vandoulakis, Feng Lisheng (Japan/France/Greece/P. R.China)

Saturday, 1 August, 09.00 – 11.00
Chair: Chikara Sasaki

Two Archetypes of Mathematical Discoveries and Demonstrations: Ancient Greece and Ancient China

Chikara Sasaki

Early Greek Mathematics and Eleatic Philosophy: A Reappraisal of a Controversial Relation

Ioannis M. Vandoulakis

The Treatise on the Section of a Cone of Serenus of Antinoe and its Relation With the Book XII of Euclid’s Elements

Konstantinos S. Nikolantonakis


Helène Bellosta

Saturday, 1 August, 11.30 – 13.30
Chair: Helène Bellosta

Epistemic Aspects of Algebraic Demonstration: East and West

Albrecht Heeffer

About the Reading of Diophantus Between the 16th and 17th Century

Paolo Freguglia

Les Mathématiques de Newton Après les Principia

Massimo Galuzzi

Leibniz’s Parisian Studies on Infinitesimal Mathematics

Eberhard Heinrich Knobloch
Saturday, 1 August, 15.00 – 17.00
Chair: Ioannis Vandoulakis

History of Demonstration as Vital Ingredient of Mathematics
Michael I. Monastyrsky

Pre-modern Japanese Mathematics, Wasan and Demonstration
Tatsuhiko Kobayashi

The Comparative Studies on the Discoveries and Demonstrations in the Eighteenth-century Mathematics in East and West
Nobuo Miura

Saturday, 1 August, 17.30 – 19.30
Chair: Feng Lisheng

Styles de Démonstration en Philosophie Naturelle: Galilée, Tartaglia, Borelli.
Enrico Giusti

Descartes and the "Impossible" Constructions with Ruler and Compass
Aldo Brigaglia

On the Seki Takakazu’s Summation Formulae for of Powers of Natural Numbers and its Construct Method
Lisheng Feng

S18 History of Science and the New Media: Resources for Connecting the Global Community of Scholars
Organisers: Peter Harper, Stephen Weldon (UK/USA)

Wednesday, 29 July, 09.00 – 11.00
Chair: Peter Harper

The Website @.Ampère and the History of Electricity
Christine Blondel

Physics Educational Instruments in New Media: Case Study of Capodistrian School
Stanislav J. Juznic

Managing the Dispersion of Sources on Science History: National Bibliography
Birute Railiene

Craig Bellamy

Wednesday, 29 July, 11.30 – 13.30
Chair: Peter Harper

Digital Media at Centro Simao Mathias
Ana M. Alfonso-Goldfarb, Marcia H.M. Ferraz, Silvia I. Waisse de Priven

World History of Science Online: Citation, Standards and Web Services
Gavan J. McCarthy

The Cost of Free Access: Making the Isis Bibliography Available on the Open Internet
Stephen P. Weldon
S19  Physics and Cold War
Organisers: Christian Forstner, Leonardo Gariboldi (Germany/Italy)

Saturday, 1 August, 09.00 – 11.00
Chair:

The Nobel Prize and the Cold War
Robert Marc Friedman

The Haber Institute in Berlin During the Cold War
Dieter Hoffmann

Saturday, 1 August, 11.30 – 13.30
Chair:

The Spy Who Came In From the Lab: A Cold War Tale Based on Real Physicists
Simone Turchetti

Between East and West? Austrian Neutrality, Cold War and Nuclear Physics
Christian Forstner

Physics in Spain Under Franco
Néstor Herran, Xavier Roqué

When Latitude and/or Altitude Matters. International Collaborations in Cold-War Times
Cosmic-Ray Physics
Leonardo Gariboldi

Saturday, 1 August, 15.00 – 17.00
Chair:

The Double Track for Superconductivity During the Cold War
Georges Waysand

The Recommencement of Electron Microscopy After World War II in the two German States
Falk Mueller

Interacting Fields—Quantum Field Theory and the Conceptual Borderlands Between Solid-State and Particle Physics During the Cold War
Christian Joas

Pictures Without Problems: The Reconstitution of an International Physics Community in the 1950s
Elvira Scheich
S21 Questions of Reflexivity: The International Circulation of Knowledge and Techniques
Organisers: A. Michael Osborne, Jahnavi Phalkey (USA/Germany)

Session I.: Scientific and Popular Medicine in the Portuguese Empire
Tuesday, 28 July, 11.30 – 13.30
Chair: Mike Osborne

Cristiana Bastos

Climatology, Parasitology and the Development of Tropical Medicine in 19th Century Brazil
Flavio Coelho Edler

The International Circulation of Medical Knowledge About Malaria
Monica Saavedra

Comments: audience and members of the research team for “Empires, Centers, and Provinces: the Circulation of Medical Knowledge in the Nineteenth Century,” Instituto de Ciencias Sociais, Fundação para a Ciência e Tecnologia, Lisbon, Portugal

Session II.: Medicine, Race and Governance
Tuesday, 28 July, 15.00 – 17.00
Chair: Mike Osborne

The Circulation of Medical Knowledge in Mexico, During and After the French Intervention, 1860s-80s
Paul Edison

From Race Crossing to Over Population: Scientific Discourses on the Population of Jamaica (1929-1945)
Jill Briggs

Construction of Medical Hegemony: An Exploration into Colonial Encounters in Anatomical Knowledge in India
Jayanta Bhattacharya

Session III.: South Asian Texts and Contexts
Tuesday, 28 July, 17.30 – 19.30
Chair: Jahnavi Phalkey

Worldly Visions: Science and Modernity in Colonial India
Prakash Kumar

Western Science in Late 19th-Early 20th Century Hindi-Language Print Media
Rajive Tiwari

Scientific Correspondence for the Global Diffusion of Theory: The Case of F. Mesnil’s Laboratory of Tropical Zoology at the Institut Pasteur (first th
Annick Opinel
S22 Learning, Producing and Using Medical Knowledge in Colonial Settings
Organisers: Cristiana Bastos, Renilda Barreto (Portugal/Brasil)

Wednesday, 29 July, 09.00 – 11.00
Chair:
Introduction, Research Agenda and Theoretical Goals
Cristiana Bastos

Political Crisis, Exile and the Circulation of Medical Concepts: M. J. Henriques de Paiva Between Portugal and Brazil (1800-1829)
Maria Renilda N. Barreto, Luiz Otavio Ferreira

Learning to Heal in the Santa Casa da Misericórdia’s Hospital (Rio de Janeiro, first half of the 19th century)
Tânia S. Pimenta

Medical Knowledge Applied to the Education: The Mutual Teaching in Nineteenth Century
Tereza Cardoso

Brazil and Tropical Medicine From the 1880s to the Great War
Jaime L. Benchimol

Wednesday, 29 July, 11.30 – 13.30
Chair:
Folk Hydrotherapy and the Science of Medical Hydrology in Brazil and Portugal
Maria Manuel Quintela, Cristiana Bastos

Pharmacies, Industries and Overseas: Cinchona and Quinine (18th-20th Centuries)
João Rui Pita

Lost White Men: Colonial Forensic RESEARCH and the ‘Drechter and Bell’ case (New Guinea, 1920s)
Ricardo Roque

From Hospitals to Bush Clinics: the Politization of Health Care in Portugal’s African Colonies
Philip J. Havik

Rolling Bones or Probabilistic Softwares: Deterministic Chaos in Mozambican Healing and in Risk Analyses
Paulo Granjo

Final Commentary by Discussant
Saraiva Tiago
**S23 A Change in Empires: European and North American Influences in Latin America’s Scientific World in the Nineteenth and Twentieth Centuries**  
Organisers: Camilo Quintero, Shawn Mullet (Colombia/USA)

**Saturday, 1 August, 09.00 – 11.00**  
*Chair: Shawn Mullet*

- The Itineraries of Guido Bennati: Natural History, Traveling, and Medicine in South America, 1860-1890  
  Irina Podgorny

  Camilo Quintero

- The Rebuilding of German Influence in Latin America Through Medical Science Between the World Wars  
  Magali Romero Sá

- The Rockefeller Foundation and the Introduction of Genetics in Mexico  
  Ana Barahona

**Saturday, 1 August, 11.30 – 13.30**  
*Chair: Camilo Quintero*

- Building Brazilian Bridges: Gleb Wataghin and Physics at the University of Sao Paulo  
  Shawn Mullet

- Continental Bridges: Globalization of Geological Cultures From a South American Perspective at the Turn of the 20th Century  
  Maria Margaret Lopes

**S24 Global Visions? The Telescope between Competition and Collaboration**  
Organisers: Sven Dupré, Albert van Helden (Belgium/The Netherlands)

**Saturday, 1 August, 11.30 – 13.30**  
*Chair: Sven Dupré*

- Introduction: The Telescope Between Competition and Collaboration  
  Sven Dupré

- Galileo’s Shopping List: an Overlooked Document About Early Telescope Making  
  Giorgio Strano

- Johann Wiesel’s Telescopes and His Clientele  
  Inge Keil

- Astronomical Sites in the Dutch Republic, or the Changing Use of the (Astronomical) Telescope in Institutional and Private Settings During the 17th and 18th Centuries  
  Huib J. Zuidervaart

- The art of Polishing: Practice and Prose in 18th-century England  
  Jim Bennett
Saturday, 1 August, 15.00 – 17.00
Chair: Sven Dupré

Networks of Telescope Makers and the Evolution of Skill: the Evidence From Observatory and Museum Collections
Gloria C. Clifton

Astronomy in the Field: Mason, Dixon and the Greenwich Observatory, 1763 - 1768
Nicky Reeves

Dollond or Fraunhofer: Instruments and Practices for Early Nineteenth Century Star Chart Observations
Klaus Staubermann

The Limits of the Universe and the Limits of the Telescope: a Controversy on Stellar Distances in the Nineteenth Century
Pedro M. P. Raposo

Saturday, 1 August, 17.30 – 19.30
Chair: Sven Dupré

Topography as Instrument: High-Altitude Telescope Observations and the Rocky Mountain Eclipse of 1878
Steve Ruskin

The Smithsonian Institution's Contribution to Global Networking in Astronomy
David H. DeVorkin, Teasel Muir-Harmony

The Making of Space Astronomy
Robert W. Smith

Commentary
Mario Biagioli

S25 Science as a Matter of Identity and Modernity in Latin America: 'Positivism' and 'Positivisms' in the Late XIX and Early XX Centuries
Organisers: Natalia Priego, Sonia Lozano (UK/Mexico)

Wednesday, 29 July, 17.30 – 19.30
Chair:

Porfiriat, Pisciculture et Progrès
Minerva Contreras-Alvarado, Dr. Ismael Ledesma-Matos

The New Visions of Venezuela in the Late XX Century: the Contributions of the Positivists
Yajaira Freites

Scientific Universalism and Controversies with a Positivist Perspective in Brazil
Bernardo J. Oliveira

Is There a Latin American Philosophy of Science? Notes Upon Late-19th and Early 20th-Century Mexico
Natalia Priego

Juan J. Martin-Frechilla
S26  **Interactions between Mathematics and the Natural Sciences: Scientific Realities and Social Representations (1750-1950)***
Organisers: Christian Gilain, Tom Archibald (France/Canada)

**Saturday, 1 August, 15.00 – 17.00**  
**Chair: Tom Archibald**

- Les Premiers Travaux de d’Alembert en Hydrodynamique (1745-1750) : Une Nouvelle Problématique  
  Gerard Grimberg

- L’Hydrodynamique et le Calcul Intégral à Plusieurs Variables dans la Seconde Moitié du XVIIIe Siècle  
  Alexandre Guilbaud

- Les Équations aux Dérivées Partielles chez D’Alembert, Euler et Lagrange: des Mathématiques Mixtes aux Mathématiques Pures  
  Guillaume Jouve

- Choosing and Measuring Physical Parameters for Mathematically  
  Muriel Guedj, Arnaud Mayrargue

  Martina Schiavon

**Saturday, 1 August, 17.30 – 19.30**  
**Chair: Christian Gilain**

- Henri Poincaré's Approach to Astronomy  
  Scott A. Walter

- Integral Equations Between Theory and Application, 1900-1920  
  Thomas Archibald, Rossana Tazzioli

- Different Views on Applied Mathematics in Germany in the 1920s  
  Birgit Bergmann

- Group Theory and Quantum Mechanics: Van Der Waerden’s Contribution  
  Martina R. Schneider

S27  **Spectroscopy: Science and Society***
Organisers: Peter Maria Schuster, George N. Vlahakis (Austria/Greece)

**Saturday, 1 August, 15.00 – 17.00**  
**Chair: George N. Vlahakis**

- Spectroscopy in Ireland in the Late 19th Century  
  Denis Weaire, Se O’Connor

- Spectroscopy in Greece. The Early Days  
  George Vlahakis

- The Scientific Network of Robert W. Bunsen, Founder of Spectroscopy, in the Light of His Private Library  
  Rudolf W. Soukup
Saturday, 1 August, 17.30 – 19.30
*Chair: Denis Weaire*

- **Historical Development of the Spectroscopy of Planetary Atmospheres**
  *Bruno P. Besser*

- **Computer Simulations: A New Way to Approach Nature**
  *Franjo Sokolic, Giovanni Ciccotti*

- **Applying the Doppler Principle to the Amici Prisms—a Think-Different in Astronomy**
  *Peter Maria Schuster*

**S28 Visual Languages (and Representations) of the Sky: Frameworks and Focal Points in Social Context**
Organisers: Cornelia Lüdecke, James Fleming (Germany/USA)

Wednesday, 29 July, 09.00 – 11.00
*Chair:*

- **Socializing the Skies: British Skies in Popular Culture 1780-1880**
  *Marilyn Gaull*

- **La Niña, Stellar Portents, and the Extinction of Easter Island’s Birdmen, 1862-1866**
  *Gregory T. Cushman*

- **Instructions for Cloud Observation at Meteorological Stations in Germany Before the International Year of Clouds 1896/97**
  *Mathias Deutsch, Michael Börngen, Karl-Heinz Poertge*

- **Seeing Icebergs in the Sky: G. I. Taylor's Newfoundland Voyage**
  *Daniela K. Helbig*

Wednesday, 29 July, 11.30 – 13.30
*Chair:*

- **Visible Impressions From World War II - Reality or Artistic Interpretation?**
  *Cornelia Lüdecke*

- **A Hole in the Sky? A Visual History of Ozone Depletion**
  *Sebastian V. Grevsmühl*

- **/Cloud/... Blur**
  *Thomas Mical*

**S29 Perspectives on the Rise of Climate Science**
Organisers: Matthias Heymann and Robert Marc Friedman (Denmark/Norway)

Wednesday, 29 July, 15.00 – 17.00
*Chair: Robert Marc Friedman*

- **Hans Ahlmann's Collaborative Glacial Fieldwork and the Early Discourse of Climate Change, 1920 to 1950**
  *Sverker Sörlin*
From Polar War and Cod Fishery to Global Climate Change  
Maiken L. Lolck

Nuclear Arms, Cold War, and the Rise of Climate Science  
Matthias Dörries

The Project of MECCA  
Nils R. Hundebøl, Matthias Heymann

Wednesday, 29 July, 17.30 – 19.30  
Chair: Matthias Heymann

Modeling Climate Prosperity  
Vladimir Jankovic

How Global Warming Stimulated Ocean Research in Germany  
Walter Lenz

Climate and Clientelism in Brazil  
Christina H. M. Barboza

S31 Les Ingénieurs au Service des Princes et des États: Un Regard sur la Mobilité Professionnelle en Europe, XVVe-XIXe Siècle  
Organisers: Ana Cardoso de Matos, Irina Gouzévitch, André Grelon  
(France/Portugal/France)

Session I.: S’Expatrier pour se Former et s’Informer: Migration Entre la Formation et l’Action  
Wednesday, 29 July, 15.00 – 17.00  
Chair:

Les Ingénieurs pour le Risorgimento Italien: Une Contribution «Internationale» pour la Construction de la Nation  
Renata de Lorenzo

L’État Libéral Portugais et la Formation à l’Étranger de Cadres Techniques Modernes (1851-1900)  
Paulo Simões Rodrigues, Helena Souto

Trained in Europe to Serve the State: Preliminary Remarks on Ottoman Engineers of the 19th Century  
Feza Günergun

Session II.: Pérégrinations et Expatriations: Parcours Classiques, Parcours ’Eception  
Wednesday, 29 July, 17.30 – 19.30  
Chair:

Aristocrates en Ecosse – Ingénieurs en Russie: la Famille Bruce au Service de la Couronne Russe, Fin XVIIe- Début XVIIIe Siècle  
Irina Gouzévitch

Les Ingénieurs Français et Flamands et les Projets de Forteresses de l’Alentejo, Portugal, au XVIIe Siècle  
Antónia Fialho Conde
Session III.: Mise á Disposition des Compétences: le Travail des Experts dans les Pays Étrangers
Thursday, 30 July, 15.00 – 17.00
Chair:

Foreign Engineers in Spain and in the Ottoman Empire: A Comparative Study From a Long-Term Perspective (18th to Early 20th Century)
Darina Martykánová, Meltem Akbas

La Mission des Ponts et Chaussées en Gréce (1882-1886); un Corps National d’Ingénieurs pris dans des Rapports Économiques Internationaux
Anna Mahera

Sous le Signe de l’École des Ponts et Chaussées: João Evangelista de Abreu et les Chemins de Fer Portugais
Maria Paula Diogo

Graciela de Souza Oliver

Gaspard Monge et les Polytechniciens à Rome
Luigi Pepe

Les Ingénieurs Étrangers dans l’Industrie du Gaz et de l'Électricité au Portugal, 1850-1920
Ana Cardoso de Matos

Session IV.: La Remise en Question de la Mobilité Professionnelle: Crises et Nationalismes
Thursday, 30 July, 17.30 – 19.30
Chair:

Les Ingénieurs de la Renaissance au Service du Grand Prince de Moscovie, ou les “Habits” Pour un État Unifié (Fin XVe - Début XVIe Siècles)
Dmitri Gouzevitch

Great Hydraulic Works of French Engineers During the Napoleonic Period in Italy
Maria Teresa Borgato

Otages de « l’Intérêt des Arts et des Fabriques » : les Mécaniciens Anglais en France au Début du XIXe Siècle
Christianne Demeulenaere-Douyere

Conclusion
Andre Grelon
S32  From Natural History to Biology, when Life Sciences were Looking for an Object
Organisers: Bernardino Fantini, Jean-Louis Fischer (Switzerland/France)

Friday, 31 July, 17.30 – 19.30
Chair:

La Biologie Végétale Durant la Deuxième Moitié du XIXe Siècle: de la Pratique au Laboratoire et Retour
Cristiana Oghinã-Pavie, Stéphane Tirard

Quelle Révolution Pasteurienne dans les Sciences du Vivant?
Gérard Jorland

La Naissance de la Zoologie en Belgique : Pierre-Joseph Van Beneden
Marie Claire S. Y. Van Dyck

La Réception du Transformisme dans les Milieux Catholiques à la Fin du XIXè Siècle
Olivier Perru

Saturday, 1 August, 09.00 – 11.00
Chair:

La Question du Verdissement des Huitres : Observatoire Privilégié de la Transformation des Sciences de la Vie à la Fin du XIXème Siècle et au Début Du
Céline M.-L. Briée

Aux Origines d’une Science du Développement
Jean-Louis Fischer

S33  How Instruments Change Hands
Organisers: Sara J. Schechner, A. D. Morrison-Low. (USA/Scotland)

Thursday, 30 July, 15.00 – 17.00
Chair: Alison Morrison -Low

Distinguished and Well-known to Princes and Lords’: the Self-marketing of Early-modern Instrument-makers in Germany
Michael B. Korey

Symbiosis and Style: the Production, Sale and Purchase of Instruments in the Luxury Markets of Early Eighteenth Century London
Alexi S. Baker

Counterfeits, Copycats, and Knockoffs in the Branding and Selling of Scientific Instruments
Sara J. Schechner

Selling Surveying Instruments in America Before the Printed Trade Catalog
Richard Kremer

Thursday, 30 July, 17.30 – 19.30
Chair: Sara J. Schechner

The Gentle Art of Persuasion: Advertising Instruments During Britain’s Industrial Revolution
Alison D. Morrison-Low
Selling by the book: Scientific Trade Literature
Liba Taub, Joshua Nall

Mathematical Instruments Changing Hands at World’s Fairs, 1851-1904
Peggy A. Kidwell

The Economics of Instruments: Prices in Europe Between 1800 and 1914
Paolo Brenni

S34 Cold War Social Science: Transformations in Politics, Patronage, Disciplines, and Democratic Ideology
Organisers: Mark Solovey, Hamilton Cravens (Canada/USA)

Session I.: Social Science, Social Movements and Social Reform
Thursday, 30 July, 15.00 – 17.00
Chair: Nadine M. Weidman,

The Strange Career of Neo-Evolutionist Anthropology in the United States
Howard Brick

Nadine M. Weidman

Revolt Against The System: Radical Individualism and the American Social Sciences in the Age of the Cold war 1945-2000
Hamilton Cravens

Session II.: Disciplinary Transformations
Thursday, 30 July, 17.30 – 19.30
Chair: Joel Isaac

Cold War Modern? Shapes of Knowledge in Harvard’s Department of Social Relations
Joel Isaac

Producing Reason
Hunter A. Heyck

Michael Trevor Bycroft

Session III.: Social Theory and Democratic Ideology
Friday, 31 July, 11.30 – 13.30
Chair: Jefferson D. Pooley

International Influences and Interpretations of Futures Studies
Kaya Tolon

Gemeinschaft After All: The Frontstage and Backstage of Small Group Research in Early Cold War Social Science
Jefferson D. Pooley

Somewhat Known but not Known Well:Sociologist Harry Alpert's Travels in American Social Science
Mark Solovey
Session IV.: The Human Machine in Cold War Social Science
Thursday, 30 July, 15.00 – 17.00
Chair: Edward Jones-Imhotep

Cold War Emotions: Mother Love and Human Nature in Post-War America
Marga Vicedo

Maintaining Humans
Edward Jones-Imhotep

The most advanced of all social sciences?: Linguistics in Cold War America
Janet Martin-Nielsen

S35 History of Numerical Tables - The Second Meeting on History of Exact Sciences along the Silk Road
Organisers: Dominique Tournès, Anjing Qu (France/P.R.China)

Tuesday, 28 July, 11.30 – 13.30
Chair:

From Square Tables to Calculation of Surfaces in Mesopotamia
Christine Proust

Fractional Tables and Water Clocks in Egypt
Micah T. Ross

From Lists to a Table to Manage Grains: The Evidence from the Oldest Extant Chinese Mathematical Books
Karine C. Chemla, Biao Ma

The Function of Numerical Tables in the Mathematical Structure of Ptolemy's /Almagest/
Nathan Sidoli

Tuesday, 28 July, 15.00 – 17.00
Chair:

The Numerical Model of Chinese Planetary Theory
Anjing Qu

The Precision of the Planetary Calculation in the Song Dynasty
Quan Tang

Mercure et le Second Équatoire de Jean de Lignières
Matthieu Husson

Comments on the Numerical Tables and Algorithms in Fibonacci’s Liber Abaci
Zhigang Ji

Tuesday, 28 July, 17.30 – 19.30
Chair:

Cardano's Rule of Proportional Position in Artis Magnae
Jiwei Zhao
Earliest Factor Tables  
Maarten Bullynck

Une Étude Empirique de Georg Cantor  
Anne-Marie Decaillot

Wednesday, 29 July, 09.00 – 11.00
Chair:

Euler-Otto's Ballistic Tables  
Dominique Tournes

Instruments Versus Tables dans le Calcul des Déblais et Remblais dans la France des Années 1830-1860  
Konstantinos Chatzis

Mathematics, Analysis and Mecanisation in Great-Britain (1834-1934)  
Marie-José J. Durand-Richard

Wednesday, 29 July, 11.30 – 13.30
Chair:

The Relationship between Numerical and Graphical Methods in the First Half of the 20th Century  
Renate A. Tobies

The Design of Numerical Tables for Statistical Quality Control in Industry (1920-1950)  
Denis Bayart

Liesbeth De Mol

S36 Introduction of Modern Mathematics in Iberoamerica
Organisers: Alejandro R. Garciadiego, Sergio Nobre, Clara H. Sánchez (Mexico/Brasil/Colombia)

Saturday, 1 August, 11.30 – 13.30
Chair:

The Translation into Spanish of Kurt Grelling's Theory of Sets.  
Alejandro Garciadiego

Introduction of Set Theory in Colombia  
Clara Helena Sánchez Botero, Víctor Albis

Logic and Set Theory in Primary and Secondary Education in Spain  
Elena Ausejo

Hilbert's "Grundlagen der Geometrie" Translated into Spanish: A Case of a Famous Mathematical Text and its Contexts  
Leo Corry

Saturday, 1 August, 15.00 – 17.00
Chair:

Mischa Cotlar's First Studies on Measure and Integration Theory (1939-1944)  
Luis C. Arboleda, Carlos D. Galles
The Impact of Antonio Monteiro on the Establishment of Algebraic Logic in Latin America
Eduardo Ortiz

Sur Une Contribution de Pi Calleja au Problème d'Induction et Récursivité dans les Axiomes de Peano pour les Nombres Naturels
Luis Carlos Arboleda

A Brazilian Genealogy of the Mathematics from Luigi Fantappiè.
Plínio Zornoff Táboas

Saturday, 1 August, 17.30 – 19.30
Chair:

The Birth of the Research in Mathematics Inside the State of São Paulo - Brazil
Sergio R. Nobre

Intuition, Formalism and Purity in Brazilian Mathematics
Rogério Monteiro de Siqueira

On the Development of Paraconsistent Logic and the Brazilian School of Logic
Itala M. L. D'Ottaviano

Some Historical Considerations on the Paraconsistent Logic in Brazil
Carlos Roberto Moraes

S37 Science, Politics, and Development in the 20th Century
Organisers: Olival Freire Junior, Patrick Petitjean, Alexis de Greiff (Brasil/France/Colombia)

Session I.: Politics and Scientific Internationalism
Wednesday, 29 July, 15.00 – 17.00
Chair: Olival Freire

UNESCO in the 50s: From the Periphery Principle to Technical Assistance
Patrick Petitjean

Agustín Ceba Herrero, Jorge Velasco González

The Technical and Scientific Activities of the Office of Inter American Affairs (1940-1946)
Alexis De Greiff

The Exact Sciences and Politics in Argentina, Brazil, Portugal and Spain in the Immediate Post-war Years: Common Features and Differences
Eduardo Ortiz

Session II.: Science and Development in 20th Century Ibero-America I.
Wednesday, 29 July, 17.30 – 19.30
Chair: Patrick Petitjean

Scientific Development Under Military Dictatorship: The Case of Brazilian Physicists (1964-1985)
Olival Freire
A New Look at an Old Devil: a Democratic Computer Market Reserve During an Authoritarian Dictatorship
Ivan da Costa Marques

Scientific Policies in Portugal During the Dictatorial Regime and the Physics and Genetics Communities (1929-1954)
Júlia Gaspar, Maria do Mar Gago, Ana Simoes

Shaping Scientific Communities in Francoist Spain, 1939-1967
Antoni Malet

Session III.: Science and Development in 20th Century Ibero-America II.
Thursday, 30 July, 15.00 – 17.00
Chair: Alexis de Greiff

Les Agronomes Sylviculteurs et les Politiques Forestières des Années 1930-1960 au Brésil
Diana Antonaz

Historical Notes on the Geophysics in Brazil – Petrobrás and the National Development
Aurino Ribeiro Filho, José Eduardo Clemente

The Mathematician Norberto Cuesta Dutari Recovered from Oblivion
José M. Pacheco

The Rebirth of a «Scientific Movement» and the Foundation of the National Board of Education in the First Period of Portuguese Dictatorship
Emília V. Gomez, Augusto J. S. Fitas, Fátima Nunes

Session IV.: Institutions for Science and Development
Thursday, 30 July, 11.30 – 13.30
Chair: Patrick Petitjean

Science and Social Inequality: Caste and Gender in Modern Physics in India
Abha Sur

Personal Motivation in the Creation of the First Profession and Research Institutions of Physics in Mexico
Maria Ramos

Heloisa M. Bertol Domingues

S38 Marxism and 20th Century Natural Science
Organisers: Anja Jacobsen, Alexei Kojevnikov, Masakatsu Yamazaki, with the participation of Olival Freire Junior (Denmark/Canada/Japan/Brasil)

Saturday, 1 August, 09.00 – 11.00
Chair: Olival Freire

Marx's Appeal to Dutch Scientists
Leo P. Molenaar

Vygotsky, Blonsky and Marxist Psychology in Soviet Russia
Alexander Dmitriev
Soviet Marxism and Scientism
Alexei B. Kojevnikov

Re-examination of the Disputes Over the Interpretation of Physical Theories in Pre-War Soviet Russia: From the Philosophical Viewpoint
Koji Kanayama

Saturday, 1 August, 11.30 – 13.30
Chair: Olival Freire

Foundations of Quantum Theory and Marxism: Rosenfeld Versus Bohm
Anja Skaar Jacobsen

Le Lyssenkisme et la Conceptualisation de la Science Prolétarienne
Deniz Uztopal

The Impact of the Soviet Genetics Controversy on Japan From the Late 1930s to the Early 1950s
Hirofumi Saito

Marxism as a Useful Tool: Japanese Particle Physicists
Masakatsu Yamazaki

Saturday, 1 August, 15.00 – 17.00
Chair: Olival Freire

Rejection and Acceptance of Plate Tectonics: Stalinism and the Japanese Geological Community
Jiro Tomari

Marxist Philosophy and Natural Science in the Last Days of the USSR
Paul Josephson

S39 Early Modern Conversations between Science and the World’s Religions
Organisers: Scott Gerard Prinster, Efthymios Nicolaidis (USA/Greece)

Friday, 31 July, 17.30 – 19.30
Chair: Ekmeleddin Ihsanoglu

The Heresy Prosecution of Renaissance Scholars Domenico Scandella, Giordano Bruno, and Galileo Galilei
Scott G. Prinster

Oswald Croll's "De signaturis internis rerum": a theory of pharmacognosy at the crossroads of tradition and modernity
Fabienne Gallaire

The Atmosphere as Physical Mirror of the Society – The Case of Jean André Deluc (1727-1817)
Marita Hübner

Laplace's private religious discomfort
Roger Hahn

The Scientific Revolution and the two faces of Augustinianism
Rob Iliffe
The scientific revolution and the Eastern Orthodox Church
Efthymios Nicolaidis

S40 Visual Representations in Science and Pseudo-Science in Pre-Modern and Non-Western Cultures
Organisers: Alexei Volkov, Vera Dorofeeva-Lichtmann (Taipei, China/France)

Session I.: Pre-modern Cartography
Friday, 31 July, 11.30 – 13.30
Chair: Alexei Volkov

Maps of Chinese Empire in East Asian Cartographic Traditions: an Attempt at a Typology
Vera Dorofeeva-Lichtmann

The Representation of Japanese Islands on European Maps
Ekaterina Simonova-Gudzenko

Map Behind the Mask of a Talisman: the Taoist Diagram of the “True Form of the Eastern Sacred Mountain Tai”
Sheng Jiang

Session II.: Diagrams in Pre-modern Science
Friday, 31 July, 15.00 – 17.00
Chair: Vera Dorofeeva-Lichtmann

Diagram and Algebraic Equations in Chinese Mathematics of the 13th Century: the Example of the Yigu yanduan by Li Ye
Charlotte V. Pollet

A Survey of Geometrical Figures in Korean Mathematical Texts in 17th to 19th Centuries
Jia-Ming Ying

Astronomy and Astral Divination in Early Medieval Japan
Kam-Wing Fung

Session III.: Talismans and Pseudo-medical Diagrams
Friday, 31 July, 17.30 – 19.30
Chair: Kam-Wing Fung

Mapping the Body in Early Medieval Daoism: Visualization of Deities in the Laozi Zhongjing
Alexandre Iliouchine

The Talismanic Tableaux of the Masters of Psalmodia: Between Writing and Image in China
Aurélie Névot

Talismans and Diagrams in the Manuscripts of the Minority Nationalities of Northern Vietnam
Alexei K. Volkov
Sunday, 28 July, 11.30 – 13.30
Chair: Susana Gómez

Portuguese Cosmography in Sixteenth-Century Florence. Portuguese Maps in the Grand-Ducal Collections: Their Use, Influence and Legacy
Angelo Cattaneo

The Magnetic Variation and the Variation Compass in Portuguese Navigation Techniques, XV to XVIII Centuries.
José Malhão Pereira

Mathematical Diagrams and Other Theoretical "Instruments" in 16th Century Nautical Science
Henrique Leitão

Víctor Navarro-Brotons

Tuesday, 28 July, 15.00 – 17.00
Chair: Henrique Leitão

Cosmography and Astrology in Manila: Tracing an Intellectual Network in the Iberian Colonial World
Ana Avalos

Clavius, Coignet, Galileo, Gunter: the European Discussion About the Sector in Lisbon
Samuel Gessner

Instruments for Learning. The Practice of Astrology and Astrological Discs
Tayra M. C. Lanuza-Navarro

Instruments Employed by Master Esquivel to Create the Map of Spain (c. 1555)
Isabel Vicente, Antonio Crespo

Tuesday, 28 July, 17.30 – 19.30
Chair: Víctor Navarro Brotons

Mathematical Instruments in the Spanish Artillery Treatises. 1530-1700
Mariano Esteban Piñeiro

New Worlds and Old Languages: the Problem of the Transmission of Knowledge in Utopian Literature
Susana Gómez

Jose Zaragozà and the Scientific Renewal in 17th Century Spain: Ideas, Instruments, and Practices
Eduard Recasens
The Emergence of the Periodical Form (17th-18th Centuries) as an Instrument of Scientific Change
Organisers: Jeanne Peiffer, Maria Conforti, Fernando Reis, Iordan Avramov (France/Italy/Portugal/Bulgaria)

Wednesday, 29 July, 15.00 – 17.00
Chair: Fernando Reis

Advancing the Baconian Science? ‘Queries for Natural History’ in the Early Philosophical Transactions and the Correspondence of Henry Oldenburg
Iordan V. Avramov

Cristina Dessì, Gian Luca Sanna

Testimonial Forms of Scientific Knowledge Presentation
Simone De Angelis

Mathematical Instruments in the Seventeenth-century Journal des Savants
Jeanne Peiffer

Wednesday, 29 July, 17.30 – 19.30
Chair: Maria Conforti

Beyond Instructions. Scientific Instruments in Early Modern Italian Periodicals
Maria Conforti

Notes on Advertising Microscopes in the Seventeenth Century Italy.
Michela Fazzari

About the Scientific Discourse in the Kaiserlich-königlich Privilegirten Anzeigen
Ágoston Zénô Bernád

A Veil of Ignorance: Anonymity and Promotion of Self in the Eighteenth-Century Republic of Letters
Mathias Persson

Thursday, 30 July, 15.00 – 17.00
Chair: Jeanne Peiffer

Disseminating the Sciences to the Portuguese Readers in Late Eighteenth-century Periodicals
Fernando E. Reis

Jacopo Riccati Organizer of Mathematics Knowledge and Advanced Research in Italian Journals of 18th Century
Clara Silvia Roero

Vulgariser le Mesmérisme : le Magnétisme Animal dans les Périodiques Italiens au XVIIIe Siècle
Patrizia Delpiano

Les Observations sur la Physique et les Questions Agricoles Entre 1771 et 1779
Paul M. M. Robin
Thursday, 30 July, 17.30 – 19.30

Chair: Silvia Roero

Fonction et Statut de la Traduction dans le Journal des Scavants
Georgette Stefani-Meyer

Communicating Swedish Science in German: the Periodicals of Swedish-Pomerania
Andreas Önnerfors

S43 Science, Space, and Claims to European Domination –
The Dynamics of Knowledge from the Renaissance
through the Enlightenment
Organisers: Catherine Jami, Laszló Kontler, Antonella Romano (France/Hungary/Italy)

Friday, 31 July, 17.30 – 19.30

Chair:

European Scientific Mission in China Seen From Mexico: Challenging European
Domination From the "Periphery"
Antonella Romano

New Knowledge on the New World and the Shaping of Historical Discipline:
Provincializing the Enlightenment
Silvia Sebastiani

Relevant Knowledge on the Margins: Maximilian Hell and the Eighteenth-century
Astronomers’ Republic
László Kontler

Herder’s Travels: Language, Sociability, and the Concept of the Nation
Anthony LaVopa

Useful Knowledge and Academic Reform in Hungary at the end of the Eighteenth Century
B. Zsuzsanna Török

Erudition as Epistemic Culture: Ideals, Strategies, Practices
Hans Erich Boedeker

S44 The Transmission of Modern Scientific Knowledge from
the West to China
Organisers: Baichun Zhang, Yibao Xu (P.R. China/USA)

Saturday, 1 August, 11.30 – 13.30

Chair: Baichun Zhang

Expeditions of the Russian Academy of Sciences and Studying of China in the First Half of
the Nineteenth Century
Tatiana Y. Feklova

Galileo’s Military Compass in China
Yibao Xu

Westernization of Mathematics Education in China: Calvin Wilson Mateer's Work
Yi Han
Development of Mathematical Education and the Professionalization of Chinese Mathematicians During 1860-1904
Miao Tian

Saturday, 1 August, 15.00 – 17.00
Chair: Yibao Xu

The Transmission of Western Mechanics into China in the Seventeenth Century
Baichun Zhang, Miao Tian, Matthias Schemmel

The Modernization of Chinese Industry Via Meiji Japan
Jian Yang

The Academic Activities of the Chinese Physicists in Europe from 1920s to 1950s
Xiaodong Yin

Animadversion on the Quantum Mechanical Viewpoints of the Copenhagen School in China from 1950s to 1970s
Huakai Hu

S45 The Antikythera Mechanism and its Place in the History of Science, Technology and Ideas
Organisers: Alexander Jones, Yanis Bitsakis (Canada/Greece)

Session I.: Discovery and Background
Friday, 31 July, 17.30 – 19.30
Chair: Mike Edmunds

Opening
Mike Edmunds, Alexander Jones

The Antikythera Shipwreck, the Treasure and the Fragments of the Mechanism
Mary Zafeiropoulou, Panagiotis Mitropoulos

Prerequisites for the Antikythera Mechanism to be Constructed in the 2nd Cent BCE
Theodosios Tassios

The Antikythera Mechanism, the First Mechanical Universe
Xenophon Moussas, Dionysios Kriaris

Discussion

Session II.: The Mechanism
Saturday, 1 August, 09.00 – 11.00
Chair: Mike Edmunds

The Antikythera Mechanism: An Instrument of Mathematical Astronomy
Tony S. Freeth

A Practical Approach to Studying the Antikythera Mechanism
Michael T. Wright

A New Model of the Antikythera Mechanism
Kyriakos Efstatthiou, Theodora Zacharopoulou, Magdalini Anastasiou, John-Hugh Seiradakis

The Solar Anomaly and the Venus Display on the Antikythera Mechanism
James C. Evans
Saturday, 1 August, 11.30 – 13.30  
Chair: Alexander Jones  
Discussion  

Session III.: The Inscriptions  

The Inscription on the Antikythera Mechanism  
Yanis Bitsakis, Agamemnon Tselikas, Alexander Jones  

The Front Cover Plate of the Antikythera Mechanism  
Agamemnon Tselikas, Yanis Bitsakis  

The Eclipse Inscriptions within the Context of Ancient Astronomy  
John M. Steele  

Discussion  

Saturday, 1 August, 15.00 – 17.00  
Chair: Alexander Jones  

The Parapegma of the Antikythera Mechanism  
Tony Freeth  

Astronomical Implications of the Parapegma of the Antikythera Mechanism  
Magdalini Anastasiou, John-Hugh Seiradakis  

The Antikythera Parapegma in Context  
Daryn Lehoux  

Discussion  

Session IV.: The Mechanism in Context  

Mechanics, Thought and the Marketplace - The Antikythera Mechanism in Context  
Michael G. Edmunds  

Saturday, 1 August, 17.30 – 19.30  
Chair: Theodossios Tassios  

Instructions for the Instrument-Maker? Ptolemy’s Planetary Hypotheses and Mechanical Representations  
Elizabeth Burns  

A Comparison Between the Astrolabe and the Antikythera Mechanism  
Flora Vafea  

Une Fille d’Anticythère: La Calotte Zodiacale de Chevroches et ses Cousins Bourguignons  
Frédéric Devevey, Christian Vernou, Patrice Cauderlier  

The Inscriptions of the Disc of Chevroches into their Context  
Patrice Cauderlier  

Discussion
S46 National Funding of Biomedical Research
Organisers: Giuliana Gemelli, Jean-François Picard, William H. Schneider (Italy/France/USA)

Thursday, 30 July, 11.30 – 13.30
Chair: William H. Schneider

From Private Initiative to Public Government Funding of Medical Research and Public Health in Italy: Opportunities and Constraints
Giuliana Gemelli

The Medical Research Council in Britain: Science, Utility and Politics Since 1913.
John V. Pickstone

The First Medical Research Institute in China: The North Manchurian Plague Prevention Service
Daqing Zhang

The Meeting of Medicine and Biology in France: Success and Limits of Political Planning
Jean-François Picard

Thursday, 30 July, 15.00 – 17.00
Chair: Giuliana Gemelli

The Birth of the Fight Against Cancer in Europe: The Case of EORTC
Bertrand Dargelos

Internal and External Influences on the Establishment of the NIH Extramural Funding Program in the United States
William H. Schneider

Shaping Scientific Research with Decisions Not to Fund: The U.S. Government and Human-Embryo Research
Doris T. Zallen

Researching Public Health in the Age of Biomedicine:
Luc Berlivet

S47 Letters at War – Scientific Controversies in the Correspondences of the 17th and 18th Century
Organisers: Anne-Lise Rey, Siegfried Bodenmann (France/Switzerland)

Tuesday, 28 July, 11.30 – 13.30
Chair: Siegfried Bodenmann

The Interplay Between the Private and the Public Dimensions in 17th and 18th Centuries Scientific Debates
Marcelo Dascal

Geometrization or Mathematization: Christian Huygens’ Critiques on Infinitesimal Analysis
Fabien Chareix

La Controverse Entre Leibniz et Papin: de la Polémique Publique à la Correspondance
Anne-Lise Rey
Anatomie d'une Controverse Épistolaire : la « Correspondance » Leibniz-Clarke (1715-1716)
*Philippe Hamou*

**Tuesday, 28 July, 15.00 – 17.00**
*Chair: Jean-Pierre Schandler*

- La Violence sous le Verbe Académique
  *Jean-Pierre Schandeler*

- Enlightened Controversies or Controversies in the Enlightenment?
  *Rainer Godel*

- Le Rôle des Correspondances dans la Querelle de la Circulation Sanguine
  *Claire E Crignon-De Oliveira*

- Le Corps, Espace de Controverses dans les Consultations Épistolaires au XVIIIe Siècle
  *Vincent Barras, Sérerine Pilloud*

**Tuesday, 28 July, 17.30 – 19.30**
*Chair: Anne-Lise Rey*

- Spreading the Word: Reporting an Eighteenth-Century Controversy About Lightning Rods
  *Roderick W. Home*

- Une Réconciliation Controversée de Séléné et Newton: Clairaut, d’Alembert, Euler et la Théorie de la Lune
  *Siegfried Bodenmann*

**S48 Networks of Instrumentation in the Neurosciences**
*Organisers: Jean-Gaël Barbara, Cornelius Borck (France/Germany)*

**Friday, 31 July, 11.30 – 13.30**
*Chair: Jean-Gaël Barbara*

- Technical Advances in Neurochemistry: Histofluorescence and Immunohistochemistry
  *Claude A. Debru*

- A Fine Balance: The Cultural Implications of Indirect Measurement
  *Gabriel Finkelstein*

- Action Potentials and the “Digitization” of the Nervous System by European Scientists Between 1900 and 1950
  *François Clarac*

- The PPI Network : From Spiritual Brain to Future Antipsychotics?
  *Nicolas Langlitz*

**Friday, 31 July, 15.00 – 17.00**
*Chair: Cornelius Borck*

- Epilepsy, a Disease Between the Fields of Clinics and Surgery in the Twentieth Century
  *Celine Cherici*

- Electric Fish Discoveries in Modern Age: Complex Networks of Scientific Endeavour and Historical Intricacies.
  *Marco Piccolino*
From Leipzig to Cambridge, from Wundt to James: Hugo Münsterberg and his Laboratories for Experimental Psychology
Henning Schmidgen

Travels of a Bioassay: the Eserinized Leech Muscle in Henry Dale's Lab and Beyond
Tilli Tansey

Friday, 31 July, 17.30 – 19.30
Chair:
Ex-radar folk with biological leanings’: models, electronics and the nerve impulse at WWII
Max Stadler

What was in their Luggage? German Refugee Neuroscientists and the Emergence of Interdisciplinary Research Networks in North-America, 1933-1963
Frank W. Stahnisch

Organisers: Patrice Bret, Brigitte Van Tiggelen (France/Belgium)

Wednesday, 29 July, 09.00 – 11.00
Chair: Patrice Bret

Women Translators in 19th Century Greece: The Case of "Ladies' Newspaper" and "Estia"
Poly Giannakopoulou

Transforming the Text: Translation Practices of the Philosophe, Emilie Du Chatelet
Judith P. Zinsser

Mariangela Ardinghelli: Poetry and Electricity in 18th-century Naples.
Corinna Guerra

Mme Thiroux d’Arconville and the Uses of translation : Anonymity, Autonomy and Authorship in Women’s Contribution to Chemistry in the XVIIIth Century
Brigitte R.P. Van Tiggelen

Wednesday, 29 July, 11.30 – 13.30
Chair: Brigitte Van Tiggelen

Madame Lavoisier, une Negociatrice de la Republique des Lettres
Keiko Kawashima

Women Translating Science in the Spanish Enlightenment
Elena Serrano

Mme Picardet and the Translation of European Chemistry at the End of the Eighteenth Century
Patrice Bret

God in Translation: Mary Somerville and the Moral Guardianship of Science
Michal Meyer
S50 Plants as Ideas and Instruments: A Symposium in Memory of Philip J. Pauly
Organisers: Barbara Kimmelman, Harro Maat (USA/The Netherlands)

Session I.: Plants as Ideas of Culture and Taste
Wednesday, 29 July, 09.00 – 11.00
Chair:

In the Name of the Bourgeoisie. Early Belgian Plant Collectors in America (1830-1865)
Denis J. N. Diagre

'Seeds of Wealth: The Changing Life of Cotton Plants in Nineteenth Century Western India.
Sandip K. Hazareesingh

Christophe Bonneuil, Philip Thurtle

A Taste for the Spoils of Empire: David Fairchild and American Plant Cosmopolitanism
Barbara A. Kimmelman

Session II.: Plants as Instruments of Public Policy
Wednesday, 29 July, 11.30 – 13.30
Chair:

What Has Been Learned From Past Green Revolutions?
Jonathan Harwood

The Co-Evolution of Potatoes and Pigs and the Political Economy of Nazism
Tiago Saraiva

Instrumental Thinking About the Genotype and Phenotype of IRRI’s High Yielding Rice Varieties
Harro Maat

Botanical Education: Contested Territories in Public Education 1900-2000
Dawn Sanders

S51 For Better or for Worse? Collaborative Couples in the Sciences
Organisers: Brigitte Van Tiggelen, Annette Lykknes (Belgium/Norway)

Friday, 31 July, 11.30 – 13.30
Chair:

Changing Strategies for Collaborative Couples in the Sciences
Nancy G. Slack

The allocation of Scientific Credit to Collaborative Couples: The Lederbergs and the 1958 Nobel Prize in Physiology
Pnina Geraldine Abir-Am, Christina C. Luo, Pinar A. Ozisik

Ida and Walter Noddack: A Collaborating Couple in Chemistry
Brigitte Van Tiggelen, Annette Lykknes
Invisibility and Partnership: Families in Early Twentieth Century Swedish Science
Staffan R. Bergwik

Friday, 31 July, 15.00 – 17.00
Chair:

Scientific Couples in Hungary
Éva Vámos

Married for Science: Success and Failure in the Collaboration Between Astrid Cleve and Hans von Euler-Chelpin, 1902–1912
Kristina Espmark

Science at Terling: Placing Collaboration in the Context of the Victorian Country House
Donald L Opitz

Pioneering Couples in Chemistry and in its Popularisation
Jean-Jacques Dreifuss, Natalia Tikhonov

S52 Formation of Experimentation in Plant Sciences from 18th to 19th Centuries
Organisers: Brigitte Hoppe, Nicolas Robin (Germany)

Friday, 31 July, 11.30 – 13.30
Chair: Brigitte Hoppe

Studies on the Balsams in the 18th Century: A Modern Experimental Approach
Marcia H. M. Ferraz, Ana M. Alfonso-Goldfarb, Silvia I. Waisse de Priven

Plants, Private Estates and Public Assistance: Formation of Plant Breeding Experimentation in Russia, 18th – 19th Centuries.
Olga Yu. Elina

From Experimentation on Plants to an Experimental Analysis of Plants in Early Electrophysiology
Brigitte Hoppe

Friday, 31 July, 15.00 – 17.00
Chair: Nicolas Robin

18th Century Utilitarian Botany and the Manufacturing of Potash in Colonial Brazil
Fernando J. Luna de Oliveira

The Experimental Discovery of the Nature of Plants –
Nicolas Robin

The Human Instrument in the 18th Century Laboratory
Larry Stewart
S53 Communicating Science in 20th Century Europe: Comparative Perspectives
Organisers: Arne Schirrmacher, Leszek Zasztowt (Germany/Poland)

Session I.: 20th Century Publishing Phenomena
Tuesday, 28 July, 11.30 – 13.30
Chair:

New Initiatives in Popular Science Publishing in Early Twentieth-Century Britain
Peter J. Bowler

Two Models or One? Popularization of Science in Poland Before and After the Collapse of the Soviet Bloc
Jarosław Włodarczyk

Popular Science Books and Human-Origins-Research in Contemporary Spain. Atapuerca - the Making of a Magic Mountain
Oliver Hochadel

Session II.: Science Communication as Political Tool

The Political Background of Polish and Soviet Science Popularization in the Post-war Period.
Leszek Zasztowt

Tuesday, 28 July, 15.00 – 17.00
Chair:

Public Policies of Publicisation of Science in Post-war France. Toward a "State Affair"
Andrée Bergeron

Session III.: Science Imprints: Science Content and Genres of Newspapers, Journals, Books

A Comparative Approach to the Representations of Science and Technology in the Portuguese Press at the Beginning of the 20th Century
Ana Simões, Ana Carneiro, Maria Paula Diogo

Science and Technology in the Early-20th Century Greek Daily Press
Erini Mergoupi-Savadiou, Faidra Papanelopoulou, Sypros Tzokas

The Popularization of Science in Hungary, 1867-1945: Textbooks, Media, Personalities
Tibor Frank

Session IV.: Beyond Print: Science Communication in the Early Audio-visual Age
Tuesday, 28 July, 17.30 – 19.30
Chair:

Science Programs as Integral Part of Weimar and Post-war German Radio
Arne Schirrmacher

Science in the French Popular Media in the 1930s and 40s: From Radio to Movies, Songs and Cabaret
Daniel Raichvarg
Session V.: New Perspectives in Popular Science Studies

General Discussion

S54 Sources of East Asian History of Science, Technology, and Medicine
Organisers: Paul U. Unschuld, Paul D. Buell, Christopher G. Muench
(Germany/USA/USA)

Friday, 31 July, 11.30 – 13.30
Chair: Paul D. Buell

Textual Sources of the Traditional Chinese Life Science Feng Shui
Manfred Kubny

“Mister Chen’s Instructions on the Inner Cinnabar”: A Source for Transformation
Rudolf Pfister

A Source for the Cosmopolitan Medicine of the Mongol Era: Huihui Yaofang
Paul D. Buell

The Significance of Research on Ancient Chinese Medical Literature Preserved Not in Chinese Archives but in Foreign Libraries Only.
Jinsheng Zheng, Zhibin Zhang

Friday, 31 July, 15.00 – 17.00
Chair: Paul D. Buell

Michael Boym, Le Chéron d'Incarville and João Loureiro - Three Important Sources in the History of Botany of China
Manuel S. Pinto, Noel Golvers

Manchu Texts on Natural Science in the Early Qing Period: The Manchu Anatomy and other Manchu Books on Mathematics and Medicine
Junsei Watanabe

Sources, Content and Influence of the Book "Les Secrets de la Médecine des Chinois" (1671).
Eric Marié

A New Realm of Sources for Chinese Medical Historiography. The Chinese Medical Manuscripts of the 16th to the 20 Century in Two Collections in Berlin
Paul U. Unschuld

Friday, 31 July, 17.30 – 19.30
Chair: P.U. Unschuld

New Perspectives on Late Imperial Medical Texts
Angelika C. Messner

Chinese Medical Practice on the Western Frontier: A Case Study in Adaptation
Christopher Muench
S56 Communities and Communication in East Asian Sciences
Organisers: Catherine Jami, Christopher Cullen (France/UK)

Wednesday, 29 July, 09.00 – 11.00
Chair: Michele Thompson

Searching for the Community of ‘Astronomers’ in Early Imperial China
Cullen Christopher

Scholars, the State and the Circulation of Mathematical Knowledge in Early Qing China (1644-1735)
Catherine Jami

The Emergence of Literati Mathematicians and the New Culture of Mathematics in Late Eighteenth-century Korea
Jongtae Lim

“Medical Networks and Circulation of Knowledge in the Margins of the Qing Empire (1644-1911)”
Florence Bretelle-Establet

Wednesday, 29 July, 11.30 – 13.30
Chair: Catherine Jami

Who Were the First Generation of ‘Statisticians’ in Early 20th Century China?
Andrea Bréard

Science, Nationalism and Internationalism in Early 20th Century China
Fa-Ti Fan

Gia Truyen and Arapprochement Within the Healing Community in Vietnam
Michele Thompson

National Academy of Peiping and Scientists Trained in France
Xiao Liu

Wednesday, 29 July, 15.00 – 17.00
Chair: Christopher Cullen

Continuity/Discontinuity and Changing Agents of Japan's Colonial Sciences
Togo Tsukahara

Community Building and Transmission of Knowledge: The Case of Quantum Physics in Japan
Kenji Ito

Precious Few: East Asian Nobel Laureates in Science in the Twentieth Century
Dong-Won Kim

Wednesday, 29 July, 17.30 – 19.30
Chair: Togo Tsukahara

Identifying “Local Area Doctors”: TKM (Traditional Korean Medicine) Practitioners and Disease under the USAMGIK, 1945-1948
John DiMoia

Constructing the Community of Radiation Medicine in Post-war Japan: Communication Between Japanese and American Scientists
Aya Homei
Leaping from Theory to Practice: Mathematics in China in the Late 1950s
Jiri Hudecek

S57 Meanings of "Science" in Twentieth and Twenty-First Century East Asia
Organisers: Angelika C. Messner, Bridie Andrews Minehan (Germany/USA)

Friday, 31 July, 17.30 – 19.30
Chair:

Reference to Science in the Life-Stories Of Senior Chinese Medicine Practitioners in the Prc
Lena Springer

Linking Chinese Crafts to Global Contexts – The Research Objective of Zhu Qiqian
Martin Hofmann

Dress Pattern Books and the Diffusion of Western Tailoring Techniques in Maoist China
Iris Hopf

Because Science Says So: Toward a Genealogy of Scientific Validity in Modern China
Joachim Kurtz

Saturday, 1 August, 09.00 – 11.00
Chair:

Meanings of 'Becoming Scientific' in Republican and Early Communist China
Iwo Amelung, Lena Springer, Martin Hofmann, Iris Hopf, Joachim Kurtz, Annick Guenel, Bridie Andrews Minehan, Angelika C. Messner

Sentimental Education in Scientific Terms
Angelika C. Messner

S58 Iron Curtains and Immaterial Instruments – The Circulation of Software and Computer Science in Cold War Europe
Organisers: Gerard Alberts, Maria Bardosova, Helena Durnova, Thomas Misa (The Netherlands/Ireland/Czech Republic/USA)

Tuesday, 28 July, 11.30 – 13.30
Chair: Maria Bardosova

The Feedback of Fear: American and Soviet (Mis)Perceptions of the Other Side's Cybernetics Agenda
Slava Gerovitch

Computing in Russia Before and After 1991
Paul Josephson

When the Iron Curtain Leaked: Tracking Eastern European and Soviet Influences upon Belgian Computing History
Sandra C. M. Mols, Marie D’Udekem-Gevers

Jacek Karpiński – a Polish Bill Gates?
Izabela Bondecka-Krzykowska, Anna Ren-Kurc, Marlena Solak
Tuesday, 28 July, 15.00 – 17.00
Chair: Thomas J. Misa

Vladimír Vand and Scientific Computing
Alena Šolcová, Michal Křížek

Seeing Like a State? The "Functional Programming Systems" in the Central Planning Economy of East Germany
Simon Donig

Reasons for the Failure of Soviet Estonian Computer Project Juku
Laur Kanger

Tuesday, 28 July, 17.30 – 19.30
Chair: Gerard Alberts

Science and Politics Intertwined: Slovak Computing in the International Context
Maria Bardosova

Turning Programming Language into Working Technology: Compiler Construction at the Amsterdam Mathematical Centre, 1960
David Nofre, Gerard Alberts

Western Effort, International ALGOL 60: Compiler Construction in Czechoslovakia in Early 1960s
Helena Durnova

Eastern European Computer Pioneers’ Roundtable

S59 Instruments for Modifying and Enhancing Oneself and their Social Impact: The Case of Amphetamines and Some of their Derivatives
Organisers: Pascal Nouvel and Maria-Teresa Brancaccio (France/The Netherlands)

Tuesday, 28 July, 17.30 – 19.30
Chair:

Les Thérapies Médicamenteuses de la Bile Noire par Râzî (865 – 925)
Mehrnaz Katouzian-Safadi

When ‘Modifying the Self’ is a Command: Amphetamines and the Allied Military in the Second World War
Nicolas Rasmussen

Birth, Growth and Decline of a Bio-power: Some Remarks on the Carrer of the First Synthetic Psychotropic Drug, Amphetamine
Pascal Nouvel

A Conceptual History of the Notion of Bio-power
Dominique Lecourt

Make Me Smarter’: Amphetamines and the Quest for Cognitive Enhancement
Maria Teresa Brancaccio
S60 Colonizing Drugs – Constructing the Other in the Mirror of (Precarious) Substances
Organiser: Bettina Wahrig (UK/Germany)

Saturday, 1 August, 15.00 – 17.00
Chair:

Will the Real Colonizer Please Stand Up? Early Modern Controversies on the Effects of Tobacco on the Western Body.
Martina Mittag

Religion – Pharmacy – Transfer of Pharmaceutical Knowledge and Drugs Men of God as Mediators Between the Cultures (16th to 18th c.)
Sabine Anagnostou

Drugs from the Mountains: Coca as an Exotic Tonic (ca. 1850-1900)
Bettina Wahrig

Saturday, 1 August, 17.30 – 19.30
Chair:

The Toxic Total Situation: Preservatives and the Critical Consumer Around 1960 in West Germany
Heiko Stoff

Standardizing Sleeping-Sickness Therapy as a Precarious German-British-Belgium-Spanish Cooperation in the Interwar Period
Marion Hulverscheidt

Test Systems and Mutagens: The Regulation of Scientific, Consumptive and Dangerous Objects
Alexander Schwerin

S63 Entanglements of Instruments and Media in Investigating Organic Worlds
Organisers: Joan Steigerwald, Philippe Huneman (Canada/France)

Saturday, 1 August, 11.30 – 13.30
Chair: Joan Steigerwald

Defining Life in the Eighteenth Century: Instrumental Reasoning, Excitable Matter and Living Subjects
Joan Steigerwald

The Very Nervous Apparatus : Entanglements of Media, Mind and Matter
Cornelius Borck

Response-able Experimentation with Toxic Algae
Astrid Schrader

Generating “Anxiety Like Phenotypes” in the Elevated Plus Maze: A Measure of Mouse Anxiety or a Model of Human Anxiety?
Nicole C. Nelson
Saturday, 1 August, 15.00 – 17.00  
Chair: Joan Steigerwald  

The Use of Computer Simulation in Studying Biological Evolution: Pure Possible Processes, Selective Regimes and Open-ended Evolution.  
Philippe Huneman  

Recalcitrant Instruments, Objects and Investigators in the Non-invention of a Non-invasive Prenatal Genetic Diagnosis Technique  
Aryn Martin  

Excitable Media: Intra-cellular Signal Transduction and Intra-active Models of Cellular Life  
Natasha S. Myers  

S64 Working with Pages and Texts  
Organisers: Karine Chemla, Ito Kenji, Richard Yeo (France/Japan/Australia)  

Session I.: Working with Texts and Inscriptions  
Friday, 31 July, 17.30 – 19.30  
Chair: Ito Kenji  

Working with Texts and Spaces to Extract Square Roots in Medieval Sanskrit Mathematics  
Agathe Tamar Keller  

From Quarry to Paper: Cuvier's Reconstruction of Montmartre Tertiary Mammals  
Bruno Belhoste  

Laboratory Writing  
Hans-Jörg Rheinberger  

Session II.: Writing and Rewriting Writings  

The Significance of Paratext in Buffon’s Histoire Naturelle  
Stephane Schmitt  

Saturday, 1 August, 09.00 – 11.00  
Chair: Karine Chemla  

A Mathematician Writes within a Given Genre: Books of Mathematical Recreations by Dénes König  
Mitsuko Mizuno  

Session III.: The Analysis of Textual Practices and Historiography  

Focusing on Actual Manuscripts to Discuss what the Genuine Text of Euclid Was  
Ken Saito  

Editing Texts and Diagrams: Medieval Islamic Discussions of Archimedean Solids  
Gregg De Young  

La Reflexion du Passé Industriel des Pays de Boheme aux Archives du Musée National Technique de Prague  
Milada Sekyrková
**S65  Diverse Cultural Practicies in 20th Century Nuclear Physics**  
Organisers: Gisela Mateos, Maria Rentetzi (Mexico/Greece)

**Friday, 31 July, 15.00 – 17.00**  
**Chair: Roland Wittje**

- The Greek-American Connection: The first Nuclear Reactor in Greece  
  *Maria Rentetzi*

- The Mexican-American Connection: The first Mexican Accelerator  
  *Gisela T. Mateos*

- The Norwegian-American Connection: Atom Smashers Before and After WW II.  
  *Roland Wittje*

**Friday, 31 July, 17.30 – 19.30**  
**Chair: Gisela Mateos**

- Turkey’s Participation to the ‘Atoms for Peace’ Program: Expectations and Consequences  
  *Ata, Kaan*

- Nabor Carrillo and the First Van De Graaff Particle Accelerator in Mexico  
  *Enrique Esqueda Blas, Ramos Lara María de la Paz*

**S66  Framing the Outer World in the Biological and Human Sciences: A Comparative Historical Perspective**  
Organisers: Vincent Guillin, Beth Hannon (France/UK)

**Friday, 31 July, 11.30 – 13.30**  
**Chair:**

- Circumstances in Context: The Example of John Stuart Mill's Ethology  
  *Vincent Guillin*

- Weismann's Barrier? : the Roles of Soma and Environment in Late Nineteenth Century Evolution  
  *Fern M. Elsdon-Baker*

- « Milieu, Umwelt and Lebensraum. Friedrich Ratzel and the Beginnings of an Environmental Science »  
  *Wolf Feuerhahn*

- The Internal and the External in Evolutionary Theory at the Turn of the Twentieth Century  
  *Sander Gliboff*

**Friday, 31 July, 15.00 – 17.00**  
**Chair:**

- 'To Do Work in the World': Instrumentalism in Pragmatist Psychology and Philosophy  
  *Stephane Madelrieux*

- The Concept of Umwelt in Physiological Anthropology: Von Uexkühl, Portmann, Buytendijk  
  *Anne M. Fagot-Largeault*
The Concept of Biodiversity: Between Science and Society  
*Marc Kirsch*

Finding the Boundary: Evolutionary Developmental Biology  
*Elizabeth M. Hannon*

**S67 Uses of Cultural Manifolds in Research**  
Organisers: Nathan Sivin, Xiaochun Sun (USA/P. R. China)

**Saturday, 1 August, 09.00 – 11.00**  
*Chair: Xiaochun Sun*

- Cultural Manifolds and the Need for Generalists  
  *Nathan Sivin*

- The Manipulation of Fire in Chinese Alchemy  
  *Juan He*

- Animals as Cultural Manifold  
  *Martina Siebert*

**Saturday, 1 August, 11.30 – 13.30**  
*Chair: Nathan Sivin*

- What Inhibited the Development of the Planetary Theory in Song China?  
  *Xiaochun Sun, Guangchao Wang*

- Control vs. Autonomy: Fabrications in Song Astronomy  
  *Yu Yu Dong*

- The Needham Question and Beyond  
  *Liuxiang Hao, Xiaoye Cao*

**S69 The Social History of Military Technology**  
Organisers: Barton C. Hacker, Margaret Vining (USA)

**Tuesday, 28 July, 11.30 – 13.30**  
*Chair:*

- Separating the Men from the Polloi: The Rejection of Missile Technology by the Classical Greeks  
  *Nick D. Barley*

- Republican Roman Rejection of Siege Technology  
  *Colin D. Hough*

- Seven Reasons for the Rejection of Known Military Technologies in the Classical World  
  *Tracey Rihll*

- Children of Mercury, Children of Mars: Civil and Military Technology in German Vernacular Illustrations, 1400-1525  
  *Bert Hall*
Tuesday, 28 July, 15.00 – 17.00
Chair:

Native American Adoption of Firearms 1609 – 1640
Lawrence E. Babits

The Embodied Soldier and the Impact of Technology
Michael Budd

Spirit of the Age: Inventors, Scientific Instruments, and the Military at the Royal Artillery Institution, Woolwich
Steven A. Walton

The Conventionnel, the Workers and the War. An Early Welfare State or a Workforce Militarization?
Christophe Bonnet

Tuesday, 28 July, 17.30 – 19.30
Chair:

Weapons and Ethnology in 19th-Century Britain: Lt.-Gen. Pitt-Rivers and His Museum
David F. Channell

James H. Burton, John W. Mallet, and the Foundations of a New South: System, Uniformity, and Control at the Confederate Ordnance Department
Steven G. Collins

Navy, Taxes and People: The Italian Royal Navy’s 1874 Shipbuilding Program and its Consequences
Ciro Paoletti

"Hunk O’Tin" - The American Ambulancier and His Model T in France, 1915-1919
Jeffrey Larrabee

Wednesday, 29 July, 09.00 – 11.00
Chair:

Visualizing Tanks: War Artists Confront a New Technology on the Western Front
Barton C. Hacker

Impact: Packaging the U.S. Army Air Force Fire-Raising Practice During the Second World War
Ralph R. Hamerla

The Norden-Victor Connection: Making Bombsights and Selling Adding Machines in World War II
Michael T. Tremblay

Wednesday, 29 July, 11.30 – 13.30
Chair:

Pierre-E. Mounier-Kuhn

Greek Military Aviation in the Electronic Era: Technical Protocols, Competition, and International Trends
Dimitrios E. Ziakkas
S70  ’Spacing Earth History’: Geological and Paleontological Sciences in Cultural Contexts from 17th to 20th Centuries
Organisers: Bernhard Fritscher, Miklos Kazmer (Germany/Hungary)

Wednesday, 29 July, 09.00 – 11.00
Chair: Bernhard Fritscher

Une “Approche Organique” des Montagnes en Europe Médiévale – Sauvegardée par des Mineurs Allemands en Hongrie et Documenté par Marsigli
Péter Papp

Origin of Geology in the Netherlands (1780-1839)
Thomas J. A. Reijers

Wolf Mayer

Wednesday, 29 July, 11.30 – 13.30
Chair: Bernhard Fritscher

Letters of German Naturalists to Domokos Teleki, the First President of the Jena Mineralogical Society, in the End of the 18th Century
István Viczián

Mining Versus Archaeology: National Styles in Early 19th Century Stratigraphy
Bernhard Fritscher

Lyell’s Palaeontological Research in Gran Canaria
Consuelo Sendino, Paul D. Taylor

Wednesday, 29 July, 15.00 – 17.00
Chair: Miklos Kazmer

Genealogical Reasoning in Alpine Tectonics. Linking Family History to Earth History
Andrea B. Westermann

Styles in Geology: Eduard Suess and Erudition
Ernst P. Hamm

The Ries Patriots: The Influence of Nationalism and Local Confinement on a Science Distrusting Instruments
Martina M. Kölbl-Ebert

Wednesday, 29 July, 17.30 – 19.30
Chair: Miklos Kazmer

Geology as a Service in Nation Building – the Japanese Example
Andreas N. Küppers, Yasuo Nogami

The Soviet Experts and the Integrated Survey of Natural Resources in China (1950s)
Xiaojing Hu
S71 Instrumentalizing Social Practice – Socializing Instrumental Practice
Organisers: Peter Heering, Klaus Staubermann (Germany/UK)

Tuesday, 28 July, 11.30 – 13.30
Chair: Peter L. Jakab

Political Ideas and Instrumental Ideals: The Design of Scientific Instruments in the Late 18th Century
Peter Heering

Calorimetry and the Social Question in the Late Nineteenth Century
Elizabeth R. Neswald

Instrumental Knowledge: Understanding Historic Socio-Technological Practice Through Engineering Models
Klaus Staubermann

Accelerating for Peace Science, Technology and the American Decade of Nuclear Research in India
Jahnavi Phalkey

Tuesday, 28 July, 15.00 – 17.00
Chair: Klaus Staubermann

Sounds for Comfort - of Computers Users in the 1950s
Gerard Alberts

Orbiting Mars, Orbiting a Camera: The ambiguities of Building a Scientific Research Group Around a Single Instrument
Jan Frercks

Gathering Data, Losing Focus: The Aeronautical Research Instrumentation of Samuel Pierpont Langley
Peter L. Jakab

“A Fatal Hour for Metallography”: The Cognitive and Social Appropriation of New Instruments and Methods in Aachen’s Ferrous Metallurgy from 1900 to 1914
Stefan Krebs

S72 60 Years of Cybernetics and Information Theory – Ideas, Artefacts and Instruments
Organiser: Lars Bluma (Germany)

Wednesday, 29 July, 09.00 – 11.00
Chair: Peter Heering

What Cybernetics Did to Change the Mindsets of Engineers: New Design Procedures in the 50s and 60s
Lars Bluma

Crossing Boundaries of Cybernetics and Information/Communication Theory. The Idea of Fuzzy Sets and its First Technical Application
Rudolf Seising
Bionic Prototypes as Scientific Models: Experimental Epistemology at the Biological Computer Laboratory 1958-1974  
Jan K. Müggenburg

Richard Wagner and his Book on Feedback Systems in Economy  
Frank Dittmann

S73 Ideas of Technology Across Time and Space: Changing Concepts and Ideologies  
Organiser: Eric Schatzberg (USA)

Wednesday, 29 July, 15.00 – 17.00  
Chair: Lars Bluma

The Arts and Engineering: Their Meaning and Cultural Place in Late Medieval and Early Modern Europe  
Pamela O. Long

A Weberian Model on Technological Knowledge - Medieval Transmission of Knowledge on Pigments and Dyes for Painters and Illuminators  
Guido Frison

“Machine” and “Decline”: Conceptions of Technik in the Conservative Revolution of the Weimar Republic  
Adelheid Voskuhl

Wednesday, 29 July, 17.30 – 19.30  
Chair: Stefan Krebs

The Transnational Shaping of Theory of Technology in Imperial Japan, 1931-1945  
Aaron S. Moore

The Role of Continental Concepts of Technology in American Social Thought, From Talcott Parsons through Herbert Marcuse  
Eric Schatzberg

S74 Technology in the Interaction with Society and the Environment  
Organiser: Timo Myllyntaus (Finland)

Tuesday, 28 July, 17.30 – 19.30  
Chair: Irina Gouzévitch

Technological Responses to Concern for the Future: Finnish Experience on Copying with Limits of Natural Resources  
Timo J. Myllyntaus

Driving is (not) for Everyone - Gender Perspective on Motoring Experiences in Finland, 1949-1980  
Riikka Jalonen

Against the Tide - Technology Transfer from the Periphery  
Jan Kunnas
Resource Conservation and Electrification in California
James C. Williams

S75 Playing with Technology
Organiser: Stefan Poser

Thursday, 30 July, 15.00 – 17.00
Chair: Reinhold Bauer

Heavenly Games of Flight on the Prehistory of Flying: Between Aesthetic Illusion and Wonderful Technology
Natascha Adamowsky

Toys, Educational Toys, and Scientific Instruments
Joseph Wachelder

Stories of Modern Technology in the Child’s World During the Cold War: the Case of the Netherlands
Dick Van Lente

Technology, Play and Innovation
Stefan Poser

S76 Politics, Technology and Infrastructure
Organiser: ICOHTEC

Thursday, 30 July, 17.30 – 19.30
Chair: Janis Langins

Bertrand Goldschmidt, Plutonium and Technobiography
Matthew Adamson

The Building of the Paris Métro, from 1898 to Second Worl War: An Overview on the History of Technology
Pascal B. Desabres

Sean Kalic

A glimpse Behind the Curtain: Polish Perspectives on the American Housing Industry in the 1950s
Slawomir Lotysz

Tires for Giants. The Development of the Pneumatic Tire and its Importance for Road Transportation
Jørgen Burchardt
The Impact of Ideas and Ideologies on Science and Technical Innovations
Organiser: ICOHTEC

Friday, 31 July, 11.30 – 13.30
Chair: Dick van Lente

Engineers and Conservatives in the Creation of State Hydroelectric Power in Canada
Janis Langins

The Technology Gap in Canadian Medicare
John B. Stranges

Institutional Cultural Influence on the Application of Science to War, 1914 to 1945
David Zimmerman

Evidences Regarding the Introduction of Metallurgy and the Utilization of Gun Powder in Europe
Horia Colan

Special Topics
Organiser: ICOHTEC

Friday, 31 July, 17.30 – 19.30
Chair: Alexandre Herlea

The Historical Development of the Notions “Natural” and “Artificial”
Vitaly Gorokhov

Water Pollution and its Treatment in Nineteenth-century United States
Anthony N. Stranges

Mining: Ideas and Instruments in Germany 1750 to 1900
Wolfhard Weber

Holger Skorupa

Practices, Views, and Networks in 19th and 20th Century Mathematics
Organisers: Laura Rodríguez, Frédéric Brechenmacher (Germany/France)

Friday, 31 July, 11.30 – 13.30
Chair: Frederic Brechenmacher

What is 'Mathematical Practice' in The Philosophy of Mathematical Practice?
Jessica Carter

Hilbert on the Notion of Completeness: A Conceptual and Historical Analysis
Catherine Karella

Emile Picard: A View on his Mathematical and Epistemological Ideas
Pierre Lamande
History of Mathematics as a Way of Justification. Mathematicians’ Views on their own Discipline During the Weimar Republic
Bjoern T. Schirmeier

Friday, 31 July, 15.00 – 17.00

Chair: Laura Rodríguez

Views and Practices in the Early Functional Analysis
Laura Rodríguez

A Triple Point of Mathematics: Born and Wiener’s “New Formulation of the Laws of Quantization”
Arianna Borrelli

Networks and Individual Agency: The Case of Galois Theory in France at the Turn of the 19th Century
Caroline Ehrhardt

Friday, 31 July, 17.30 – 19.30

Chair: Laura Rodríguez

Frédéric Brechenmacher

Practices, Networks and Fields: Making (Historical) Sense of Poincaré’s Early Work
Renaud Chorlay

Shifting Boundaries. Kronecker’s Early Work on Complex Multiplication and Dirichlet’s Legacy in Number Theory.
Ivahn Smadja

S82 Visual Cognition in the History of Science

Organisers: Christophe Heintz, Tamas Tofalvy (Italy/Austria/Hungary)

Friday, 31 July, 17.30 – 19.30

Chair: Tamás Tófalvy

Visual Cognition and History of Science
Christophe Heintz

Visual Thinking in Medieval Scientific and Philosophical Manuscripts
Anna Somfai

What are Genetic Maps Visualizations of?
Marion Vorms

The Role of Visuality in Konrad Lorenz's Philosophy of Science
László Nemes
S83 Revisiting Joseph Nedham's 'Rivers and the Sea'
Metaphor: The Construction of Modern Science and Technology in a Global Context, 17th-19th Centuries
Organisers: Kapil Raj, Mau Chuan-hui (France/Taipei, China)

Friday, 31 July, 11.30 – 13.30
Chair:

Needham’s Rivers and Sea Metaphor and the Nineteenth Century Perception of Scientific Knowledge in India
Irfan Habib

Circulation Intercontinentale des Savoirs et des Techniques au Pérou (XVI-XVIIIe Siècle)
Carmen Salazar-Soler

Maps, Perambulators, Repeating Circles and Theodolites: Mapping in India and Great Britain, 1780-1830
Kapil Raj

The Jesuit and the Long Life. The First French Translation of a Chinese Text of Nurturing Life (Yangsheng) in the Early 18th Century
Frédéric Obringer

Friday, 31 July, 15.00 – 17.00
Chair:

From Starry Abnormity to Meteorological Phenomenon: The Impact of Aristotelian View of Comet on Xu Guangqi and Xiong Mingyu in Ming Wanli Period
Kuang-Tai Hsu

Gewu Rumen: A Case Study of the Introduction of Western Physics into Nineteen-Century China
Hao Chang

Artisanal Know-how and Modern Sciences: The Use of Chinese Traditional Knowledge in French Research on Sericulture
Chuan-Hui Mau

S87 The Reception of Darwinism at the Subnational Level: Cities
Organisers: Thomas F. Glick, Hans Henrik Hjermitslev (USA/Denmark)

Tuesday, 28 July, 11.30 – 13.30
Chair: Thomas Glick

The Early Reception of the Origin of Species in Boston
Thomas F. Glick

Harmony of Nature and Struggle for Survival: Reception of Darwinism in Russian Plant Geography
Anastasia A. Fedotova

Darwinism and Neo-Darwinism between Prague and Brno, 1900-1915
Michal Simunek, Tomas Hermann
Tuesday, 28 July, 15.00 – 17.00
Chair: Hans Henrik Hjermitslev

Darwinism and the Birth of the Polish Urban Intelligentsia: Warsaw, Cracow, and Lwów
Daniel Schümann

Darwinism and Cultural Struggles in Rural Askov and Metropolitan Copenhagen in Nineteenth-century Denmark
Hans H. Hjermitslev

S88 Comparative Reception of the Synthetic Theory of Evolution in the Soviet Union, Eastern and Central Europe
Organisers: Eduard I. Kolchinsky, Uwe Hossfeld (Germany), Oleg Philipchuk (Russia/Germany/Ukraine)

Tuesday, 28 July, 17.30 – 19.30
Chair: Eduard I. Kolchinsky, Oleg Philipchuk

Peculiarities of Evolutionary Synthesis in Nazi Germany and Soviet Russia
Eduard Kolshinsky

The Development of Darwinism by Ukrainian Zoologists (late 19th – early 20th Centuries)
Oleg Pilipchuk

Theodosius Dobzhansky: A Large Step Towards Solving “The species Problem” – a Main Step Towards “Evolutionary Synthesis”
Mikhail Konashev

The Teaching of Evolutionary Theory in Russian Secondary Schools Between the World Wars
Anna V. Samokish

The Selectionist Turn of Bernhard Rensch (1900-1990) through the Prism of Panpsychistic Identism
Uwe Hossfeld, Levit Georgy S.

Reception of Darwin’s ideas in Russia: The Struggle for Existence and Natural Selection. V. N. Sukachev’s Experimental Program
Yakov Gall

S89 The Role of Rail Transport in Development of the Infrastructure in St-Petersburg (Russia) and Kiev (Ukraine) and their Interference in XIX - first half of XX Centuries
Organisers: Margarita Voronina, Alexander Soldatov, Victor Shataev (Russia/Ukraine)

Saturday, 1 August, 09.00 – 11.00
Chair: Margarita Voronina

Role of the Corpus of Railroad Engineers in Institutionalization of High Technical Education in Russia
Boris I. Ivanov
The role of Institute of Engineers of Means of Communication (St. Petersburg, Leningrad) in formation engineers of transport in 1910-1930
Margarita M. Voronina

Borodin Creativity in a Context of Development of Mobile Structure Engineering of Ukrainian Railroads (Second Half XIX in)
Viktor N. Shataev

The Warsaw Railway Station in St. Petersburg
Alexsander V. Soldatov, Nina P. Soldatova

Saturday, 1 August, 11.30 – 13.30
Chair: Alexander Soldatov

K.I. Potier (1786 - 1855) and Applied Geometry Development in Russia.
Natalya N. Eliseeva, Nikolai A. Eliseev

Department of Physics and its Professors in the Institute of Engineers of Means of Communication
Petr V. Velikorussov

The Historical Development in Kyev University of Railways Transport
Anna P. Berezhnyak

The investigation of the development of non-traditional types of transport
Elena N. Eliseeva

Saturday, 1 August, 15.00 – 17.00
Chair: Victor Shataev

The Role of the Naval Engineering Institute in Creation of Russian Underwater Navy
Isay Kuzinets

Origin and Beginning of Building of Diesel Engines in the World (End of XIX-Beginning of XX Century)
Elena L. Sorochinskaya

S91 Biography as a Genre in Different National Traditions of Writing about Science and Scientists
Organisers: Galina Smagina, Aleksandar Petrovic, Marina Loskutova (Russia/Serbia/Russia)

Friday, 31 July, 11.30 – 13.30
Chair: Aleksandar Petrovic

Reading History of Women Scientists Through Biography : Life-stories of Lydia Rabinowitsch-Kempner, Lina Stern and Gertrud Woker
Natalia Tikhonov Sigrist

Assessment of Different Biographical Approaches to Writing about Science and Scientists
Rose-Luise Winkler

Local Amateur Scholars of the 19th – early 20th Centuries in Russia: Biographical Tradition and Prosopographic Data
Marina V. Loskutova

Biographic Method as an Instrument of Historical-Scientific Research (the Example of W.F. Louguinine’s Studies in Thermochemistry)
Elena A. Zaitseva, Galina I. Liubina
Friday, 31 July, 15.00 – 17.00  
*Chairs: Galina Smagina, Marina Loskutova*

- **The Year That Has Changed The Earth**  
  *Aleksandar Petrovic*

- **Victor Conrad and the Seismological Service of Austria**  
  *Christa Hammerl*

- **The Diaries of the Traveler Pyotr Kozlov: A Self-portrait in Geographic Space**  
  *Tatiana I. Yusupova*

- **The First and the Only One: The Director of St. Petersburg Academy of Sciences Princess Ekaterina Dashkova and her Biographers**  
  *Galina I. Smagina*

- **L'histoire de Science et l'Histoire de la Vie: Une Nouvelle Lecture de la Biographie du Savant**  
  *Natalia Knekht*

**S93 History of Prospective Technology Studies**  
Organisers: Imre Hronszky, Gerhard Banse, Armin Grunwald (Hungary/Germany)

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**Thursday, 30 July, 15.00 – 17.00**  
*Chair: Gerhard Banse*

- **Cooperation with Middle and Eastern European Countries in the Field of TA – Results and Experiences**  
  *Gerhard Banse*

- **History and Perspectives of PTA - The Case of the EP**  
  *Miklós Györffy*

- **The Development of Parliamentary Technology Assessment (PTA) in the Netherlands**  
  *Jan Staman*

- **Parliamentary Technology Assessment in Europe – A Short history**  
  *Michael Rader*

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**Thursday, 30 July, 17.30 – 19.30**  
*Chair: José A. López Cerezo*

- **Expectations and Expertise Meet. Nutritional Theories and Functional Foods**  
  *Marta I. Gonzalez, Rebeca Ibanez-Martin*

- **Technology, Literacy and Knowledge Society**  
  *Cipriano Barrio-Alonso, Irene Díaz García*

- **Participation in Science and Technology: Learnings from the Swiss PubliForums and Publifocus**  
  *Sergio Bellucci*

- **Technology Assessment in Poland-tradition, Current Initiatives and Experiences**  
  *Andrzej Kiepas*
Friday, 31 July, 11.30 – 13.30
Chair: Klaus Kornwachs

The Methods of Herman Kahn in The Year 2000 Forecast Revisited
Klaus Kornwachs

Prospective Studies of Technology in Mexico and Latin America: Past and Future of Network Building
F. Medardo Tapia Uribe

On History of Roadmapping and Scenario Building
Imre Hronszky, Ágnes Fésüs

The Research and Public Diffusion of Science and Technology in the Museums.
Garcia Myriam, Belén Laspra

Friday, 31 July, 15.00 – 17.00
Chair: Attila Havas

National Foresight Programmes in Central and Eastern Europe
Attila Havas, Michael Keenan

Technology Foresight in China and its Recent Progress
Fan Chunliang

S&T Forecasting in the Soviet Union and the post-Soviet Countries
Igor Yegorov

Florida Tech - Building a Research University (A Case Study)
Gordon L. Nelson

Friday, 31 July, 17.30 – 19.30
Chair:

A Critical Approach to Public Understanding and Participation in Science and Technology
José A. López Cerezo, José L. Luján López, Montaña Cámara Hurtado

S94 Brief History of Characterisation of Engineering Materials and Structures
Organiser: László Tóth (Hungary)

Wednesday, 29 July, 11.30 – 13.30
Chair:

The Role of the Natural and Engineering Sciences in the Economical and Social Reorganisation
László Tóth

Historical Background and Development of Impact Testing
Andre Pineau

Metal Fatigue – The Story of an Enigmatic Science
R. Sunder

Brief History of Structural Integrity Concept
János Lukács
Evolution of the Hardness Testing
Péter Tóth

Evolution of the Non-destructive Testing in Hungary
Peter Trampus

S95  History of Travel, Travel Medicine and Traveler’s Medical Kits
Organiser: Peter Felkai (Hungary)

Saturday, 1 August, 17.30 – 19.30
Chair: Péter Felkai

    History of Travel Medicine and the Travelers
    Péter Felkai

    From the First
    Gerhard F. Strasser

    Journeys of Medical Purpose in Ancient Near East (2nd Millennium B.C.)
    Gaye Şahinbas Erginoz

S96  Seeing and Measuring, Constructing and Judging:
Instruments in the History of the Earthsciences
Organisers: Ana Carneiro and Marianne Klemun (Portugal/Austria)

Tuesday, 28 July, 11.30 – 13.30
Chair: Ana Carneiro

    Perception of Strong Winds in Early Modern Times
    Katrin Hauer

    Searching for Modernization – Instruments in the Development of Geological Sciences in
    Portugal (18th Century)
    Isabel M. C. de O. Malaquias, Manuel S. Pinto

    The 'Mineralogical' Task of Human Senses - a Survey on the Language of 'Mineralogy' in
    Weimar-Jena circa 1800
    Benigna Kasztner

    Travelling with Instruments: Italian Geologists in the Field Between the 18th and 19th
    Centuries
    Ezio Vaccari

Tuesday, 28 July, 15.00 – 17.00
Chair: Marianne Klemun

    Minerals Scrutinized: Alberto Betim Paes Leme (1883-1938) and the Application of
    Spectrography.
    Silvia F. M. Figueiroa

    Aspects of the Role of Microscopes in the History of Petrology in Japan
    Michiko Yajima
The Early History of Geological Maps and Their Use as Instruments of Discovery, With East–West Comparisons
David Roger Oldroyd

The Geologist's Hammer - Tool, Equipment, Instrument and/or Bagde
Marianne Klemun

Tuesday, 28 July, 17.30 – 19.30
Chair: Ana Carneiro

Measuring the Inaccessible Earth: Deep Time and Unreachable Spaces
Gregory Good

"A Bursting Landscape in the Middle of Portugal: Theories and Experiments by Georges Zbyszewski (1909—1999)"
Teresa S. Mota

Time Machines: Model Experiments in Geology
Thomas Brandstetter

Under the Spell of the Photographic Camera: A Case-study of the Use of Photography in Nineteenth-century Palaeontology
Ana M. Carneiro