
Friday 4th July 11.30-13.00

1A

Connecting Disciplines: Mathematics, Natural Philosophy and Reason in the Early-Modern Era I

Chair: Stephen Gaukroger

Robert S Westman

Locating Astrology in the Early Modern Map of Knowledge

John A Schuster

What Was Early Seventeenth Century 'Physico-Mathematics'? Or, did the 'usual suspects' aim to replace natural philosophy with mathematics, or to reform natural philosophy from within?

John Henry

The Origins of the Experimental method—Mathematics or Magic?

1B

Domestic and Public Cultures of Science

Chair: tbc

Melanie Keene

'Bare fingers' or 'kid gloves'? How to handle nineteenth-century objects

Charlotte Nicklas

'Chemical science has given to the world bright hues': Dyes in Nineteenth-century Professional, Public, and Domestic Cultures of Chemistry

Julie K. Brown

Considering the Museum: A Site for Health Exhibitions in the Early Progressive Era in the United States

Rima D. Apple

From Laboratory to Home: The cultural transformation of nutrition in the 20th century

1C

Charles Darwin, the Man, the Myth, the Legend

Chair: Peter C. Kjaergaard

John van Wyhe,

'Almighty God! what a wonderful discovery!': Did Charles Darwin really believe life came from outer space?

Fern Elsdon-Baker

Origin 6th edition – Revenge of the Sith or Return of the Jedi ?

Hans Henrik Hjermitsev

Making a Myth out of Darwin – Or how to blame it on the German

1D

Beyond Werskey: Science, Ideology and History in the 1940s

Chair: Jabnari Phalkey

Patrick Petitjean

No Ivory Tower: historians of science and politics in the 1930-1940s.

Vidar Enebak

Lilley revisited – or science and society in the twentieth century

Anja Skaar Jacobsen

Rosenfeld: Spectator and actor in the history of science

1E

Philosophy and Practice of Medicine in Muslim Arab and Ottoman Civilisations Since 1240AD

Commentator: Emily Savage-Smith

Nahyan Fancy,

Merging Disciplinary Boundaries: Soul and Spirit in the Writings of Ibn al-Nafis

Ahmed Ragab,

Practice and thought: Medicine and the medical profession in Ottoman Egypt (17th-18th century)

Rainer Brömer,

Ottoman Medicine in Its Own Right, With Arabic, Persian, and Latin Sources

Miri Shefer,

Ottoman Medicine Going Modern: Between Iran and India, and France, Italy and England

1F

Thinking with Experiments, or the Invention of Theoretical Physics, 1850-1914

Chair: tbc

Kevin Lambert

Maxwell's Method, Boole's Analogy, and Faraday's Researches: The Connection Between the Disciplined Practices of Cambridge Mathematics and Electrical Research in Victorian Britain

Suman Seth

The Practice of Principles: Planck, Experiment, and the Thermodynamic Method

Charlotte Bigg

Not Theoretical Physics: Perrin, Borel, Langevin on Brownian Motion

1G

Treating Bodies and Minds

Chair: tbc

Louis C. Charland

Moral Problems with Moral Treatment: Philosophical Influences on the Development of Psychiatry in the Eighteenth Century

Ian Miller

The Unhealthy British Stomach c.1830-1890

Robin Rohrer

“Cure is Not Enough”: the Historical Development of Total Care and the Model of Treatment of Cancer in Children, 1970 to the Present

1H

Character, Personality and Culture

Chair: tbc

Vincent Guillin

John Stuart Mill's Ethological Fiasco: When Connecting Sciences Amounted to Composing Their Laws (and Failed...).

Otniel E. Dror

Adrenaline Excitements!

Rainer Egloff

Personality and Culture ? the Rise and Decline of an Interdisciplinary Research Field

1I

Science, Medicine and Culture, 1870s-1920s

Chair: tbc

Daniel Mitchell

The Individual Style and Shared Values of Gabriel Lippmann's Electrocapillarity Research

Elizabeth Neswald

Max Rubner, calorimetry and nutritional physiology in late 19c. Germany

Salim Al-Gailani

'A system of medicine from the foetal standpoint': J.W. Ballantyne and the centralisation of antenatal knowledge

Dan O'Leary

The Importance of Lateral Thinking in the History of Science: Irish Catholic Attitudes towards Science as a Case Study

1J

C19th Optics

Chair: tbc

Joseph Wachelder

Physiological Optics: Connecting Medicine, Natural History and Physics?

Chitra Ramalingam

How to see movement: the study of vision among experimental natural philosophers in 1830s London

Martha L Reiner

Scientific Reports on Optics in Nature magazine in 1896-97 as “On a New Kind of Rays,” a translation of W. C. Roentgen's 1895 discovery of X-rays report in Sitzungsberichte der Würzburger Physik-medice was published in Nature's January 23, 1896, issue

1K

Rethinking Science and Empires I - Connecting Scientific Knowledge Across Imperial Networks in Europe, Africa, Asia, Australia

Chair and Commentator: Hannah Gay

Brett Bennett

Nationalism, Anti-nationalism, and the Globalization of Forestry Science in the Late Nineteenth and Early Twentieth Centuries

Gregory Allen Barton

Networks of Forestry Science Beyond the Formal Boundaries of Empire

Tamson Pietsch

Between the Nation and the World: JT Wilson and Scientific Networks in the Early Twentieth Century

Jürgen G. Nagel

Administrative, Missionary and Academic Interests in German Colonial Ethnolinguistics (1884 – 1914)

1L

The Importance of Place: connecting disciplines in and around Oxford I

Chair: Robert Fox Commentator: Graeme Goody

John Rowlinson

Setting the scene: Chemistry and its relations in nineteenth-century Oxford'

Paul Weindling

Preventing Tuberculosis: William Osler's engagement with public health in Oxfordshire'

Viviane Quirke

'Developing penicillin, patenting cephalosporin, and transforming biomedical research in Britain: the Sir William Dunn School of Pathology in Oxford from the 1930s to the 1970s'

Friday 4th July 14.00-16.00

2A

Connecting Disciplines: Mathematics, Natural Philosophy and Reason in the Early-Modern Era II

Chair: John A. Schuster

Peter Dear,
Reasoning Between Disciplines

H. Floris Cohen
'No end of fancying'- 17th Century Searches for Ways and Means to Arrive at Valid Conclusions

Peter Harrison,
Mathematics, Natural Philosophy, and Moral Science

Stephen Gaukroger
The public dispute over infinitesimals

2B

Bodily and Mental Borderlands of Late Nineteenth-Century Physics

Chair: tbc

Robert Brain,
Good Vibrations: Protoplasm, Aether, and Sensorium ca. 1900

Annie Jamieson
Phototherapy: Medicine at the Physics-Biology Nexus ca. 1900

Iwan Morus
The Physiology of Death by Electric Shock: Calibration, Competition and Corporeality on the Borders of Victorian Physics'

Richard Noakes
The 'Borderland of Physics and Psychology': Late Nineteenth-Century Psychical Research and the Classification of the Sciences'

2C

DNA and history

Chair and Commentator: Carlos López Béltran

Soraya de Chadarevian,
DNA and history: reflections on an interdisciplinary debate

Steffan Müller-Wille
Claude Lévi-Strauss on race, history, and genetics

Yulia Egorova
DNA and the history of the caste system: mapping population genetics in the Indian sub-continent

Marianne Sommer
Anthropological genetics as applied history: the search for the human past using genetic data

2D

Borrowing Concepts and Spreading Knowledge in (and out of) Nineteenth-Century Geology

Chair: tbc

Leucha Veneer
Local Science, Local Industry: The Royal Geological Society of Cornwall and Cornish mining

Ralph O'Connor
Conceiving monsters: extinct reptiles and borrowed categories

Adelene Buckland,
Gideon Mantell, Thomas Hardy and the Politics of Geological Knowledge

2E

Understanding Scientific Cosmopolitanism in the Age of Reason and Revolution

Chair and Commentator: Maurice Crosland

Sarah Easterby-Smith
The Republic of Science and the plant trade in late eighteenth-century London and Paris: cosmopolitanism meets commerce

Christelle Rabier
Foreign Communication in Periodicals in the Age of Revolution, London-Paris, 1790-1802

Elise Lipkowitz
'The Sciences are Never at War?': Rethinking Networks of Cosmopolitan Scientific Communication, 1793-1814.

Robert Davis
Science and Technology as a Medium of Exchange Between Enlightenment Europe and the Chinese Other

2F

Quantum Physics at the Crossroads

Chair: tbc

Massimiliano Badino
A quantum melting pot: the origin of the quantum theory of ideal gas.

Arne Schirmmacher
On the available and necessary mathematical resources for matrix mechanics and their social dispersion

Christoph Lehner
Creative Confusion. Quantum Theory on the Way to Wave Mechanics

Daniela Monaldi
The Multi-Fathered Birth of Quantum Statistics

Christian Joas
Interacting Fields: Nuclear and Solid State Physics 1930-1960

2G

Science and Industry

Chair: Muriel Le Roux

Dawn Mooney Digrius

Carboniferously Yours: The Social History of Coal in Nineteenth Century Manchester

Robert Bud

Applied science: An idea whose time had come

Christine Nawa

Weighing – Measuring – Counting. Physical approaches to 19th-century chemistry

Roland Wittje

Acoustics between science and engineering, academia and industry

Marc Rothenberg

“Materials are important”: Materials research as an interdisciplinary endeavor at the National Science Foundation

2H

War and Cold War

Chair: tbc

Andrew Ede

From Chaos to Model Science: The US Chemical Warfare Service and the Rise of America Science.

Adam Lawrence

An Ecological Study of Predation between Aircraft, U-Boats, and Ships: Evolutionary Theory, Developmental Genetics, and the Second World War

Jahnvi Phalkey

“The Lack of Scientific Liaison”: AV Hill, Allied Scientific War Effort and British India (1943-45)

Alexandros Oikonomou

Who were the scientific advisers, and what did they do in the Cold War?

Hermione Giffard

Fighting over the history of the jet engine

2I

Medicine, Public Health and the State

Chair: tbc

Michelle Mangan

Famine and fever; the relationship between disease and the availability of food.

Michael Brown

“Like a Devoted Army”: Cholera, Heroic Masculinity and the Militarization of Medicine in Britain, 1831-1866’

Jacob Steere-Williams

The Perfect Food and the Filth Disease: Milk-borne Typhoid in Victorian Britain.

Kristin Asdal

Subjected to Parliament: The democratic challenge to experimental medicine at the turn of the 20th century

2J

Science and Religion

Chair: tbc

Richard Oosterhoff

Josse Clichtove, Theology at Paris, and the Early Sixteenth-Century Reform of the Quadrivium

Raphaelae Fruet

Defining Astronomy and Cosmology in Theological Context: What Orthodoxy? The Examples of a Protestant Encyclopaedia, and a Jesuit Miscellany La Primaudaye's third volume of the Académie Française (1598) Etienne Binet's Essays des Merveilles (1611)

Neil Tarrant

Science and Religion in early modern Italy

Jitse M. van der Meer

Richard Oosterhoff

Interpreting Nature & Scripture: The Shift from Reader to Author and the Transformation of Literal Meaning (1100-1700)

2K

Rethinking Science and Empires II - Empires of Science in Asia

Chair: tbc

Andreas Weber

Naturalists as Mediators of Knowledge in an Expanding Dutch Colonial Empire, 1815-1850

Rajive Tiwari

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

Hamilton Cravens

Philanthropic Colonialism: The Rockefeller Foundation and the Introduction of Western Medicine into China.

Akihito Suzuki

Physiology and Acclimatization in Japanese Imperial Medicine

2L

The Importance of Place: connecting disciplines in and around Oxford II

Georgina Ferry

Crystal forms: Dorothy Crowfoot Hodgkin and the development of structural biology in Oxford

Jon Agar

Margaret Thatcher, scientist

Mark Ebdon

Oxford science, past, present and future: the experience of an Oxford scientist

Friday 4th July 16.30-18.00

3A

Connecting Disciplines: Heaven and Earth in the Sixteenth and Seventeenth Centuries

Chair: tbc

Adam Mosley

Connecting Disciplines: The Case of Cosmography

Sophie Weeks

Francis Bacon on the Unity of Nature

Nadiya Midgley

Organic Theories of the Earth

Alexander Wragge-Morley

Landscape Contested: Thomas Burnet, his opponents and the aesthetics of mountain scenery

3B

National and International Organisations

Chair: tbc

Annie Binnie

Under the Southern Cross

Henrik Kragh Sørensen

Meeting under the integral sign: Politics and mathematics at the 1936 International Congress of Mathematicians in Oslo

Waqar Zaidi

Rethinking the 'Atomic Scientists Movement': The Transformation of Interwar Aerial Internationalism into Postwar Atomic Internationalism

David P.D. Munns

Disciplines and Disciples: Building an international scientific community for radio astronomy";

3C

Biography, Exemplars and Social Constructions

Chair: Byron E. Wall

Theodore Varno

All Tomorrow's Rodents: Helen Dean King and the Study of Inbreeding

Taika Dahlbom

The Mandible of a Horse Grown in a Treeroot

Ruthanna Dyer

The Hydroid "Family" History

3D

The psychopathology of stress in the military, the city and the self

Chair: tbc

Ian Burney

Investigating Civilians Under Pressure: Surveys of Home-front Mental and Physical Health in World War Two

Edmund Ramsden

The stress of space and numbers: crowding experiments and the built environment

Rhodri Hayward

Between Psychopathology and Economics: James Halliday and the Invention of Psychosocial Medicine

3E

Prophecy, Time and Optics in C17th England

Chair: Voula Saridakis

Elaine C. Stroud

Franco Giudice

Optics at the Crossroads: The Connecting Role of Optics in Hobbes's System of Philosophy

Michael Edwards

The science and politics of time in early modern Europe

Stephen Snobelen

Cosmos and Apocalypse: prophetic themes in Newton's astronomical physics

3F

Natural Philosophy and Instruments in the C17th and C18th

Chair: tbc

Lindsey Fitzharris

A Synthesis of Philosophies: John Webster's *Metallographia* (1671) and its Impact on Others

Christopher Baxfield

System, Balance and Chaos: natural philosophy and moral theology in Stephen Hales

Lisa Mullins

For God, King, and Country: Fontenelle's éloges at the Académie Royale des sciences

Alexi Shannon Baker

The export of London instruments to eighteenth century Portugal

3G

Cosmology and Mechanics from the 4th century to the middle ages

Chair: tbc

Jacqueline Feke

Ptolemy on the Mathematician's Contribution to Physics and Theology

Elizabeth Burns

Astronomy and Mechanics in the Greco-Roman World

Shana Worthen

Structuring the Mechanical Arts

Mary Yearl

The utility of cosmology to physicians of the soul in twelfth-century Europe.

3H

Reading, lexicography and linguistics

Chair: tbc

Norma Goethe

Leibniz as Reader in Paris and the intersection of early modern art and science

Michael Rand Hoare

Science and the word: Historical patterns in scientific lexicography

Janet Martin-Nielsen

The Mathematization of American Linguistics, 1952-1968

3I

Borders of Physics

Chair: tbc

Vivien Hamilton

Between physics and medicine: The role of the first hospital physicists following the discovery of x-rays

Sandra Linguetti

Experimental physicists, pure and relativist mathematicians in Italy (1906-1945)

Jaume Navarro

From neutrons to neutron stars. Zwicky and the transfer of a nuclear particle into astrophysics

Sultana Banulescu

From the Chain Reaction to the Cambrian: Franco Rasetti's Fusion of Nuclear Physics and Photographic Paleontology

3J

Animals and Humans in Research

Chair: tbc

Stephenie Eichberg

Crossing Boundaries in the Life Sciences: Experiment and the Question of the Human-Animal Analogy

Helen Blackman

The Choice of Animal Models in the Biological Sciences, 1850–1930

Henderikus Stam

Tanya Kalmanovitch and Jennifer Kowalsky

Whose animal is it anyway? The emergence of a laboratory being in 20th century psychology

Clément Levallois

Sociobiology before *Sociobiology*: changing meanings, 1945-1975

3K

Rethinking Science and Empires III: Decolonization and the Legacies of Imperial Science

Chair and Commentator: Michael Worboys

Patrick Petitjean

UNESCO and the Colonial Legacy in Science

Perrin Selcer

The View From Everywhere: From Imperial Science to International Science

Joseph Hodge

British Tropical Agricultural Science, Post-Colonial Careerism, and the Early History of the World Bank

Adrian Howkins

Science Versus Empire: Environmental Nationalism, Scientific Authority, and the Contest for Antarctic Sovereignty, 1939-1959

3L

Museums, Media, Disciplines

Chair: tbc

Samuel J M M Alberti

Disciplines in the museum

Sophie Forgan

'Keepers of the Flame': biography and personality in the museum

Tim Boon

Defining the Science Museum curator: the industrial past in comparative perspective

Saturday 9.00-11.00

4A

History of the Royal Society I

Chair: tbc

Michael Hunter

The Royal Society and the decline of magic

John Gascoigne

The Royal Society and the 'New World(s)', 1660-1800

David Miller

Connecting Engineering and Natural Knowledge at the Royal Society in the late Eighteenth and early Nineteenth Centuries

4B

The Birth of the Sciences in the Age of Revolutions? Was knowledge reconfigured c1800, and if so how and why?

Roundtable Chair: John Pickstone

Martin Rudwick

Pietro Corsi

John Heilbron

Steve Turner

4C

Disciplinary Hybrids in Early Modern Explanations of Animal and Human Reproduction

Chair: tbc

Frédérique Aït-Touati

A Teratology of Knowledge: monsters and hermaphrodites across disciplines in the 17th Century

Karin Ekholm

The Cross-fertilization of Anatomy, Alchemy, and Experimental Philosophy in 17th-Century British Studies of Animal Generation

Justin E. H. Smith

"As long as there are squirrels there will be dancing machines": The Problem of Species Reproduction in Mechanist Generation Theory

Tobias Cheung

The Life of the Tissue: Some Reflections about the Notion of Weaving in the Early Life Sciences

4D

Health, numbers and technology: connecting disciplines in medical thought during the 19th and 20th centuries

Commentator: Robert Lee

Jörg Vögele

Epidemiological transition and statistics in medicine and public health

Heiner Fangerau

Michael Martin

Engineering and technology in medical research and medical diagnostics during the 19th and 20th century: physicians between modernism and reaction

Michael Schneider

Entrepreneurs and enterprises – the business of connecting medicine, technology and money

4E

British Colonial Science and Medicine in the Mid-Twentieth Century: Research, Expertise, Intervention.

Chair: Joseph Hodge

Anne Marie Rafferty

Rosemary Wall

Emblems of Empire: the role of nurses in Queen Elizabeth's Overseas Nursing Service as experts in the extension and end of Empire, 1940-1966

Christian Jennings

The Dream of the Flying Squad: Imperial Imagination and Marine Fisheries Research in East Africa, 1917-1964

Sabine Clarke,

Insecticide Research in British East Africa, 1940-1960

Lawrence Dritsas

The Joint Fisheries Research Organisation: Science in the Federation of Rhodesia and Nyasaland.

4F

Discipline Problems for Chemistry 1750-1900

Chair: Hasok Chang

Jonathan Simon

Thinking about Disciplines.

John R. R. Christie

The Chemical Revolution and the Disciplines in Scotland

Georgette Taylor

'Lending Material Aid': Chemical Substances across Disciplines

Catherine Jackson

Chemical Identity Crisis

4G

Education and Training

Chair: tbc

Michelle Hoffman

Science for Mental Discipline and for the Useful Arts: Technical Education and School Science in Late Nineteenth-Century Ontario

Josep Simon

The History of Science Education: Disciplinary Boundaries, Comparison and Internationalism from the Nineteenth Century to the Present

Ryan Johnson

Imperial Medicine and Colonial Mission: Livingstone College, London and Medical Training for Missionaries, 1893-1914

Floriane Blanc

From cognitive sciences to history of science: a tool for a better comprehension of the Paris Faculty of Pharmacy scientific community

4H

C20th Literature and Science

Chair: tbc

Amanda Rees

Consider his ways: logical fantasy and the evolution of 1950s biology

Charlotte Sleigh

The curious incident of science in the novel

James Sumner

Six Macintoshes and an albatross: the fundamental interconnectedness of Dirk Gently

4I

The mathematics of learned and practical men in Victorian Britain

Chair: tbc

Amirouche Moktefi

Reasoning rightly: On the place of symbolic logic in the Victorian curriculum

Josipa Petrunic

The industrial uses of quaternions: PG Tait's development of quaternion mathematics as a response to industrial needs (1858-1880)

Marie-José Durand-Richard

Symbolical approach and mechanisation of the calculus

4J

Philosophy and the Physical Sciences

Chair: tbc

Robert G. Hudson

Realism and the Bullet Cluster

Silvan Schweber

Oppenheimer, complementarity and the constraints on connecting Disciplines

Michael Akeroyd

The Philosophical Significance of Mendeleev's Successful Predictions of the Properties of Gallium and Scandium

4K

Transforming the Social and Psychological Sciences: Theory, Research and Culture in Mid-20th-Century American Society

Chair and Commentator: Howard Brick

Tara H. Abraham

Transcending Disciplines: The Case of Cybernetics and the Cognitive Sciences

Elizabeth Lunbeck

Fragmentation, Authenticity, and Modernity: The Problem of the Self in Postwar American Culture

Jill Morawski

Psychology Experiments and the Limits of Authenticity in Postwar Research

4L

The "Usefulness" of Scientific Instruments in the Early Modern World

Chair: Jim Bennett

Steven A. Walton,

Divers instruments voide of use?: Gunnery instruments' "usefulness" in the Renaissance and Enlightenment

Michael Korey

Geometry and Dynasty: Tracking the Use of Mathematical Instruments at the Saxon Court in the Decades around 1600

Kathryn James

Writing the use of mathematical instruments in early modern England

Stephen Johnston

Business, art and utility: mathematical instruments and architecture in 18th-century England

Lesley Cormack

'At the sign of the Globe': The Marketplace of Instruments, knowledge and expertise in Early Modern London

Saturday 11.30-13.00

5A

History of the Royal Society II

Chair: tbc

Frank James

'Its present state is not wholesome': Michael Faraday and the Royal Society

Hannah Gay

The Royal Society as Office: Herbert McLeod and the Making of the Royal Society Catalogue of Scientific Papers, 1901-15

Jeff Hughes

The Royal Society After World War 2

5B

Disciplines, Exchanges and order in Enlightenment Science

Chair: Emma Spary

Commentator: Steffan Müller-Wille

Matthew D. Eddy,

Disciplinary Exchange and Alexander Monro's Reordering of Anatomy

Ernst Hamm

Mennonites, Exchange and the Promotion of Science

Rob Iliffe

Instruments, Innovation and Exchange between Specialist Communities

5C

Testing Darwinism: Post WW2

Chair: Andy Hammond

Dave Rudge

Images as Rhetoric: H.B.D. Kettlewell's Use of Photographs and Films to Silence Skeptics.

Andy Hammond

Post World War 2 developments in JBS Haldane's evolution project

Joe Cain

Ritual patricide: why Stephen Jay Gould assassinated his idol

5D

Connecting disciplines: the History of Early Modern Chemistry in Institutional, Economic, and Medical Contexts

Chair: John Christie

Victor Boantza

Alkahest, Corpuscles, and Fire: Negotiating Chymical Identity at the Early Parisian Academy of Sciences

Anna Marie Roos

Nehemiah Grew (1641-1712) and the Oily Brain: the Nervous Fluids and Iatrochymistry in Context

Anna Simmons

Chemistry and Commerce: some economic contexts of apothecaries' activities in eighteenth-century London

5E

Circulation and Locality in Early Modern Science

Chair: tbc

Jane H. Murphy

Locating the Sciences in Eighteenth-Century Egypt

Mary Terrall

Following Insects Around: Tools and Techniques of Natural History in Réaumur's World

Kapil Raj

Maps, Perambulators, Repeating Circles and Theodolites: Mapping in India and Great Britain, 1780-1830

5F

Natural Theology

Chair: tbc

Larissa Johnson

Connecting the History of Science with the History of Religion: The Emergence of Natural Theology in 17th-Century England

Adam R. Shapiro

The Watchmaker Argument in its Own Time: The Cultural Context of Paley's Analogy

Gowan Dawson

Bones Bear Witness: Richard Owen, Functional Correlation and Victorian Print Culture

5H

Music, Art and Science

Chair: tbc

Allison Portnow

The Critic in a Vacuum Jar: Scientific Metaphor in Nineteenth-Century Music Criticism

Nicola Gauld

'An emblem of evolution': late nineteenth century science and the decorative arts

Christopher Ries

Pursuing 'Proavis': bird origins in the art and science of Gerhard Heilmann (1859-1946)

Nancy Anderson

Aspects of Form, 1951 Symposium: Finding Patterns in Nature and Across Disciplines

5I

Naval Science and Technology in Victorian and Edwardian Britain

Chair: Crosbie Smith

Ben Marsden

'Ship-shape' or 'all at sea'? Macquorn Rankine, James Robert Napier and the 'Engineering Science' of Naval Architecture in Mid-Victorian Britain

Don Leggett

The Reverend Lunatic and the Catastrophic Captain: Disconnecting Disciplines from Shipbuilding

Richard Dunn

Deep Science: Lord Kelvin and the Making of a Scientific Navy

5J

Sources

Chair: tbc

Sean Winslow

Manuscript Evidence for Medieval Apiculture in S. Italy: the Beneventan Exultet Rolls'

Francis Neary

Darwin's Rocks: Some Uses for Biographies of Collections

Shannon Bohle

Science Archives and History: Facilitating Discovery through Laboratory Notebooks

5K

Cooperation, Convergence, and Conflict in Cold War Social Science: Remapping the Relationships between Political Power and Scientific Knowledge

Chair and Commentator: Nadine Weidman

Joy Rohde

The Social Scientists' War: Politics and Ethics in the Military-Industrial-Academic Complex

Mark Solovey

Challenge to the U.S. National Science Establishment: Senator Fred Harris's Effort to Create a National Social Science Foundation

Hamilton Cravens

The Cold War and American Social Science, 1945-2000

Saturday 14.00-15.30

6A

OEC Session

Hasok Chang

Catherine Jackson

Chlorine

BSHS Strolling Players

Play: The Business of Bodies

6B

Lay Participation in the History of Scientific Observation I: Visual Display

Chair: Jeremy Vetter

Simon Werrett

Meteoric Heights: Art, Nature, and Audience Epistemology in Eighteenth-Century England

Anna Maerker

Consumption as participation? The commercial production and uses of anatomical models in comparative perspective.

Victoria Cain

The Art of Authority: Exhibits, Exhibit-Makers, and the Contest for Status in American Natural History Museums, 1890-1940

6C

Academic and Ideological Borderlands: Cold War Science in International Organizations

Chair: Roy MacLeod

R. S. Deese,

Ecologies of Empire: Julian Huxley, UNESCO, and the Birth of Global Environmentalism

Jacob Darwin Hamblin

Fiat Lux, Fiat Panis: Genetics, Nuclear Physics, and Grain Irradiation at FAO and IAEA

Simone Turchetti

On Thick Ice: Glaciology, Antarctica and the Cold War

6D

Pathologies of space and motion ca. 1800

Chair: tbc

Kevis Goodman

Medics and Aesthetics: The “Uncertain Disease” of Nostalgia

Vladimir Jankovic

The ‘Choice of Air’ and Expatriation in Nineteenth-Century Britain

Lisa O’Sullivan

Curing environmental ills: French nostalgia at the Revolution

6E

Between Market and Laboratory: Expertise in Early Modern Europe

Chair and Commentator: Ursula Klein

Barbara Orland,

White Blood: Understandings of Milk, Lactation and Regeneration in the Enlightenment

Marcus Popplow

A science of the local in service of the common weal. Eighteenth-century economic societies and their attempts towards agricultural improvement

Matteo Valeriani

Galileo Engineer: Exploring Galileo's Practical Knowledge

6F

Science and Victorian Tourism

Chair: tbc

Aileen Fyfe

Geology for Tourists: the changing roles of geology in early nineteenth-century guidebooks

Juliana Adelman

“The elephants are coming!”: visiting animal displays in Victorian Dublin

Rebekah Higgitt

Science, tourism and the British Association

6G

Mathematics and Natural Philosophy in the 16th and 17th Centuries

Chair: tbc

Eleanor Sheppard

A view of the mathematical sciences in the late sixteenth century.

Fokko Jan Dijksterhuis

Mathematics in the Low Countries, or: confusion in high circles

Catherine Abou-Nemeh

Nicolaas Hartsoeker (1656-1725): Microscopical Observations and Dutch Cartesianism

Brant Vogel

Climate and Colonialism: the Case of the Letter from Dublin

6H

Medicine, Technology and the Visual

Chair: tbc

Miriam Focaccia

An anatomist and an artist of the Italian Eighteenth Century: Anna Morandi Manzolini

Barton C Hacker

Industrialized war and the artist: Depicting military technology in the Great War

Katrina Boulding

Picturing the Pieces: Comparing Visual Pedagogies of Anatomy

6I

Careers in Science and Medicine

Chair: tbc

Robin L Mackie

Gerrylyn Roberts

Chemistry in Postwar Britain: pedagogy, research and profession

Jennifer Gold

Mobilizing tropical expertise: the British Colonial Forest Service and the post-imperial reconfiguration of scientific career networks, 1957-1981

Vanessa Heggie

Gentlemen and Amateurs; GPs, the voluntary tradition, and resistance to specialisation in sports medicine.

6J

Biology and Sociology

Chair: tbc

Emmanuel D’Hombres

The Conceptual Couple Differentiation-Division of Labour in the 19th Century : from Political Economy to Sociology via Biology

Snait B. Gissis

Connecting and separating by evolutionising - Is Spencer our contemporary?

Jacob Stegenga

The Chemical Characterization of the Gene: a Sociological Analysis of Scientific Reception

6K

Life and Contemporary Technology

Chair: tbc

Kathleen Richardson

Ability, Disability and Robots

Smiljana Antonijevic

Susanne M. Jones

Getting in Touch, Virtually: A Comparative Analysis of Theoretical Approaches to Nonverbal Communication in Virtual Environments

Byron Kaldis

Nano-Technoscience: A Novel Type of Connecting Science and Technology

Stephen Wallace

Affording Procolisation: explaining innovation through displaced networks of social-material agency

6L

Astronomy and Travel

Chair: Stephen Johnson

Commentator: Jim Bennett

Emily Winterburn

The Jewel of the Essence of all Sciences

Nicky Reeves

Moving things around and moving around things: Travel and the construction of the Zenith sector telescope, 1761-1774

Pedro Raposo

An Astronomical Grand Tour: The apprenticeship travels of Frederico Augusto Oom

Saturday 16.00-17.30

7A

Technology in Use

Chair: tbc

Mats Fridlund

Smoking Guns The Affordance and Posthumanism of the Civilian Firepower Revolution and the Technological Origins of Modern Terrorism, 1878-1914

Nina Lerman

Jim Crow and the White Way: Race, Region, and Progress in Early Electrification

Seung-joon Lee

Engineering a Province, Tasting the Nation: The Canton-Hankow Railway and the Food Problem in Republican China, 1900-1937

Marionne Cronin

The Arctic Horizon: Aviation and Polar Exploration

7B

Lay Participation in the History of Scientific Observation II: Networks and Infrastructures

Chair: Anne Secord

Brita Brenna

A naturalist-bishop and his network of priests: Mid-eighteenth century natural history in Norway

Jenny Beckman

Schools, clubs, field guides: Infrastructures of biological recording

Jeremy Vetter

Lay Observers, Telegraph Lines, and Kansas Weather: The Field Network as a Mode of Knowledge Production, 1885-1915

7C

The Sex Lives of Animals and their Regimes of Truth

Commentator: John Carson

Peter Hegarty

Bugging the Moderns with Kinsey's Sexology

Michael Pettit

The Queer Life of a Lab Rat

Marga Vicedo

Vulgar Female Geese and Infanticidal Monkey Mothers: The Objective Eye and the Subjective I in the Study of Animal Behavior

7D

Interdisciplinary approaches to anatomy in early modern Europe

Chair: tbc

Sebastian Pranghofer

'It is the beginnings of human life that I am setting before you [...]: Concepts of generation and the visual representation of the foetus and the embryo, 1600-1800

Duke Pesta

Resurrecting Vivisection: Michelangelo Among the Anatomists

Kathleen Crowther

The Anatomy of Eve: Imagining the Maternal Body in 16th-Century Germany

7E

Computing Without Borders: How Information Technology Crossed and Redefined Disciplinary Lines

Chair: tbc

Joseph November

Transistorized Transdisciplinary: Computers and the Quest to Unify Biology"

Miguel García-Sancho

Towards a long history of sequencing: the practice of data gathering and the emergence of the first protein and DNA structural databases (1965-1985)"

Ton van Helvoort

The early development of a university computing centre (1955–1975): cementing disconnected disciplines

7G

Connecting Disciplines through Mathematics

Chair: tbc

K G Valente

Giving Wings to Logic: Mary Everest Boole's Propagation of a Legacy

Byron E. Wall

How John Venn's attempt to refute historical determinism with probability theory fostered the development of applied statistics

Ivor Grattan-Guinness

Against Wigner: the reasonable (though perhaps limited) effectiveness of mathematics in the natural sciences.

7H

Lecturers and their Audiences

Chair: tbc

Sarah M. Zimmerman

Poetry at the Lecture Desk: Coleridge and Campbell at the Royal Institution

Vicky Carroll

Scientific eccentricity as cultural performance: William Martin, philosopher, prophet and poet (1772-1851)

Diarmid A. Finnegan

Exeter Hall Science and the Evangelical Pulpit, 1845-1865

7I

Biomedical Classifications

Chair and Commentator: Anne Hardy

Kenton Kroker,

Epistemological Tissue, circa 1925

Tricia Close-Koenig

Pragmatic classification in the anatomo-pathology laboratory

Michael Bresalier

Classifications as Standards: Virus Identification and the Regulation of Global Flu Surveillance, 1950s-1970s.

7J

Colonial and Post-Colonial Natural History, Science and Medicine

Chair: tbc

Elizabeth Green Musselman

Epistemology: Canines as Naturalists in Colonial Southern Africa

Helen Anne Curry

Naturalizing the Exotic and Exoticizing the Naturalized: Horticulture, Natural History, and the Rosy Periwinkle

Ronald Guilloux

History of sciences, post-colonial studies and sociology: the paradox of the integration of Far eastern traditional acupuncture in French modern medicine

7K

Drebbel Redivivus: "Living Instruments" in Alchemy, Medicine, Mechanics, Cosmology, and Meteorology

Chair and Commentator: Lauren Kassell

Rienk Vermij

Drebbel's "perpetuum mobile" and the debate on the constitution of the universe

Vera Keller

An Ancient Reborn: Reading On the Nature of the Elements in early modern Europe

Arianna Borrelli

Air, fire and glass: meteorology as a connecting discipline

**OUTREACH AND EDUCATION
COMMITTEE SESSIONS,
SATURDAY**

10.30-11.00 Welcome

11.00-11.30 Coffee

11.30-1.00 The Two Debates at the
NATURAL HISTORY MUSEUM.

12.00-4.00 Object-handling at the
MUSEUM OF THE HISTORY OF
SCIENCE

1.00-2.00 Lunch

2.00-3.30/3.45 The Business of Bodies
and Chlorine

4.00-5.30 Model-making as a
pedagogical tool for schools at the
MUSEUM OF THE HISTORY OF
SCIENCE

Sunday 6th July 9.00-11.00

8A

**Popularizing Science in 19th Century
Europe: Comparative Perspectives**

Chair: Bernard Lightman

Commentator: Bernadette Bensaude-Vincent

Andreas Daum,

Who Were the Guys? German Popularizers of Science in
the Long Nineteenth Century”

Robert Fox,

Practices and publics in the golden age of scientific
popularization in France, 1850-1914”

Agustí Nieto-Galan

The popularisation of science in Spain around 1900: new
sources, new questions

8B

**Communicating Natural History in the
Eighteenth Century: From Perception to
Popularization**

Chair: tbc

Alexandra Cook

Popularizing botany in France: Barbeu Du Bourg, Le
Breton and Bulliard

Benigna Kasztner

Communicating Mineralogical Knowledge in Weimer-Jena
circa 1800

Nicolas Robin

Communicating Experimental Natural History, Connecting
Methods and Connecting Disciplines

Ann B Shteir

The Grand Temple of Flora, Spring-Gardens, Charing
Cross: Spectacle, Artifice, and Natural Knowledge in the
1780s

8C

**Science and Environmental Activism in
the Age of Ecology**

Chair: Michael C.F. Proctor

Pamela M. Henson

Alternatives to Tropical Destruction: The Role of Scientists
at the Smithsonian Tropical Research Institute in the
Conservation of the Panamanian Tropical Rainforest

Nancy Slack

G. Evelyn Hutchinson's Influence on Environmental
Issues

Frederick R. Davis

Charles Elton's Influence on Silent Spring and the
Environmental Movement

8D

Philosophy and Doing History and Archaeology

Chair: the

Anke Timmermann

Why, how, what for? Reflections on the possibility and implications of a philosophy of alchemy

David Marshall Miller

Using Representations of Space to Study Early Modern Physical Science: An Example of Philosophy in the Service of History

William Krieger

What is So Grand about Unified Theories? Philosophical Explanation and Local Archaeology

8E

Interdisciplinarity and the 'recent' history of science in Britain

Chair: Jane Gregory

Melissa Smith

Architects of Armageddon: scientific advice and the state in Cold War Britain, 1945-68

Thomas Lean

Mapping the Micro Generation: Approaching a History of 1980's Microcomputing

Simon Lock

Deficits and dialogues: A historical perspective on the Public Understanding of Science in the UK

8F

The Contested Separation of Natural Philosophy from Metaphysics during the Scientific Revolution

Commentator and Chair: Roger Ariew

Dana Jalobeanu

Francis Bacon's "circle learning": natural philosophy, natural theology and the demise of metaphysics

Maarten Van Dyck

Galileo against the Philosophers

Eric Schliesser

The Newtonian (attempted) refutation of Spinoza

8G

Science, Science Fiction and the Public

Chair: the

Eric C Martin

J.B.S. Haldane, Expertise, and Popular Science Writing

Lisa Nocks

Willie Ley's Galaxy Pen Pals: Between Science and Fiction

Brian Regal

Writing Letters about Monsters: Fans Confront a Scientist over Bigfoot

Alice Bell

Fantastic Voyage: educational psychology and the communication of theoretical physics.

8I

Connecting Disciplines: Nineteenth-Century Science and the Periodical Press

Chair: Geoffrey Cantor

Geoffrey Belknap

Visualising Science within The Graphic

Claire Jones,

Medical Periodicals and their Role in Late Nineteenth-Century Advertising

Jamie Stark

La maladie du Bradford: placing public health issues in a wider cultural context

Efram Sera Shriar

Defining the new science of 'Man': James Hunt and the Anthropological Review (1863-1869)

8K

Psychiatry and Psychoanalysis in National Context

Chair: the

Katherine Arens

Before Disciplines Divide: Descriptive Psychology and Science in Nineteenth-Century Austria

Katherine Harper

Early Neural Network Models: Exploring the theories of Alexander Bain and Sigmund Freud

Lindsay Wilson

Crossing Boundaries, Connecting Disciplines: Reassessing the Role of Marie Bonaparte in the History of Psychoanalysis in France

Sunday 6th July 11.30-13.00

9A

The nature of (o)economy: Reconsidering links between governance, knowledge production and material production during the second half of the long eighteenth century

Chair: tbc

Margaret Schabas

The Concept of the (O)Economy in Eighteenth-Century Discourse

Emma Spary

Economie, governmentality and the reform of the household in late eighteenth-century Paris

Lissa Roberts

Oeconomic chemistry in the Netherlands

9B

Connecting disciplines, localities and people in and around Early Modern Oxford

Chair: tbc

Antonio Clercuzio

Connecting London and Oxford: Robert Boyle and the Hartlib Circle

Jim Bennett

Seth Ward's 'reall designe amongst us' - 'a Magneticall, Mechanicall, and Optick Schoole'

Benjamin Wardhaugh

'Geometry is improving daily': mathematics in the Royal Society polemic, 1667-1671

9C

Kepler's Constellations: Bridging the Disciplinary Divide

Chair and Commentator: Nick Jardine

Patrick J. Boner

Kepler's Early Astrological Calendars: Matter, Methodology and Multidisciplinarity

Aviva T. Rothman

Kepler, Galileo, and the Character of Scientific Community

Daniel A. Di Liscia

Kepler and the Middle Sciences

Miguel Angel Granada

Novelties in the Heavens between 1572 and 1604: Ensuing Effects from Cosmology to Politics

9D

Erudition and Empiricism: The Intertwining of the Humanities and the Sciences in Early Modern Europe

Chair: David Cram

Rens Bod

Discoveries in the Humanities that Changed the World

Jaap Maat

Early Language Technologies: The Invention of Languages in the Seventeenth Century

Dirk van Miert

Philology and the Roots of Empiricism: Textual Criticism and the Observation of the World

Philip Beeley

Moral Inducements and Physical Arguments.
History and the Growth of Knowledge in the Early Royal Society

9E

Constructing and Building Disciplines

Chair: tbc

Christop Meinel

Failed Connections: Strategies of Discipline Building in pre-Physical Chemistry

Faidra Papanelopoulou

Between Physics and Chemistry: Research in the low temperatures and the becoming of physical chemistry

Chuck Crossett

Constructing System Dynamics at the Massachusetts Institute of Technology

Sarah Lowengard

Scientific Analysis and Works of Art Connect to Create a Profession?: Notes on the Perennially Emerging Field of Technical Art History

9F

Connecting Disciplines in the Life Sciences: Potentials and Limitations I

Chair: Maya Schmailov

Rony Armon

Joseph Needham and Chemical Embryology: The construction and collapse of an interdisciplinary bridge

Alexander Schwerin

Mutagenesis in the 1960s, molecular biology and the emergence of environmental science

9G

Origins in the Life Science

Chair: tbc

Geerd Magiels

Who discovered photosynthesis? And why does nobody know him?

Andrew Reynolds
Norbert Huelsmann

Reconstructing reconstructions of the past: models of ancestral coenobia and the origins of the Metazoa

9I

The Experimental Novel

Chair and Commentator: Jan Golinski

Paul White

The poetics of physiology

Angelique Richardson

Determining environments in the late nineteenth-century novel

Heather Tilley

'Exhibiting blindness as it really is': the relationship between literary form and blindness in Wilkie Collins's *Poor Miss Finch*

9K

Computing in Industry and Academe

Chair: tbc

Janet Delve

The development of punched-card looms and their influence on weaving and computing: new perspectives on the role of Joseph Marie Charles, known as Jacquard

Allan Olley

Wallace J. Eckert: Trader on the Computer Frontier

David Anderson

The development of the Computing community of practice: How physicists, electrical engineers and mathematicians combined to create a new discipline.

Ian Martin

Making space for computers in the business of banking: Barclays and Britain in the 1960s

Sunday 6th July 14.00-15.30

10A

New Perspectives on the Great Exhibition

Chair and Commentator: Sophie Forgan

Richard Bellon

The Great Exhibition and the Quest for Panoramic Vision

Geoffrey Cantor

Religious Interpretations of the Great Exhibition

Graeme Gooday

Protecting Invention at the Nineteenth Century International Exhibition.

10B

Connecting disciplines, localities and people in and around Early Modern Oxford II

Chair: tbc

Jackie Stadell

Circles of communication: mathematical networks in seventeenth-century England

Howard Hotson

Tutors, Regents, and the 'Scientific Revolution' in England and Scotland

William Poole

The Bodleian and London-Oxford Scholarship 1665-1719

10C

Food Standards in the 20th Century

Chair: Peter Atkins

Ulrike Thoms

Paradigm shifts: Nutritional Science, Foods standards and the Change from Shortage to Affluent Society. The Case of Germany.

Aleck S. Ostry

The Origins of Canada's First National Dietary Standard.

Brigit Ramsingh

"Changing the Shape of Food Safety": Biometricians, the Food Code, and Hygiene Standards, 1962-1970.

10D

Interdisciplinarity in Human Biology

Chair: tbc

Heini Hakosalo

On Speaking Terms: Scientific Boundary Work and the Concept of Aphasia, 1861-1908

Maria Kronfeldner

Heredity/culture: Bipolar distinctions and the disciplinary boundary between anthropology and biology

Michael J Root,

Designing Minds: Connecting Psychology and Cognitive Science

10E

Gender Issues in Science, Social Science and Medicine

Chair: tbc

Laura Kelly

Early Irish female medical students and the debate surrounding their university admission, 1872-1922

Margaret Vining

Sophonisba Breckinridge and the Rise of Applied Social Science

Pnina Abir-Am

Gender and Cultural Memory: Remembering Dorothy Hodgkin (1910-94) in the First, Second, and Third Worlds

Sally Horrocks

'Candy Floss Chemistry': Gender and Sociability in British Industrial Chemistry, 1920s-1970s

10F

Connecting Disciplines in the Life Sciences: Potentials and Limitations II

Chair: Rony Armon

Maya M. Shmailov

Discipline Tectonics: Mathematical Biology and the Epistemological Evolvement of a new Discipline

Max Stadler

The 'Randall incident' revisited: The politics of borderlines and the early history of British post-war biophysics

Sabina Leonelli

A Happy Marriage? The Introduction of Bioinformatics to Model Organism Biology

10G

Victorian Literature and the History of Science

Chair: tbc

John Holmes

Tennyson among the Scientists

Gregory Tate

Tennyson's Victorian Psychology

Mary Noble

Darwin among the Novelists: George Eliot and The Expression of the Emotions

10I

Computing and its Applications

Chair: tbc

Pierre-E Mounier-Kuhn

'Une science encore incertaine': Computing Sciences in the CNRS Committees (1946-1976)

Sandra Mols

Marie d'Udekem-Gevers

Diffusing Electronic Computing Savoir-Faire in the Belgian Technological Periphery, c1940-c1975

Susan Rogers

Networking the experiment: DNA microarray standards and expert knowledge circuits

