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The Department

Introduction

The year 2014-15 was a year of congratulations as several members of the Department achieved great success, as a result of which there is a section of this report dedicated to this on page 4.



It is only fitting however that we should mention in this section, our Head of Department, Jim Secord, who was awarded the Pilkington prize for excellence in teaching across the collegiate University. The following citation appeared, “Professor Jim Secord is one of the outstanding teachers of his generation. Combining the innovative approach exemplified by his own superb publications on nineteenth-century sciences with a shrewd sense of student needs, he has made a huge contribution to education and training in the subject at every level.” Jim will be stepping down as Head of Department at the end of this year, with Liba Taub taking

over in September. In August, the party held in Peterhouse Deer Park to celebrate the publication of Nick Hopwood's new book *Haeckel's Embryos*, was also to thank Jim for his contribution as Head of Department.



This year we had news of research projects awarded to Jesse Olszynko-Gryn, Boris Jardine, and Boyd Brogan which will begin in the following academic year. Further details of these can be found in the New Research Projects section of the report on page 12.

Our Library has been very active this year, their full report can be found on page 33. The Whipple Museum has also had another busy year; their report follows on from the Library's on page 39.

We welcomed several new members of staff this year, including Mary Brazelton, who took up the new lectureship in Global Studies of Science, Technology and Medicine in the HPS Department from the beginning of September 2015. Mary is an expert on Chinese medicine and science, working especially on immunology and public health in the twentieth century. Efram Sera-Shriar was appointed to the one-year post as Research Associate in History of Modern Science, also starting in September 2015. He will be lecturing and supervising on a range of topics in nineteenth and twentieth century science while Helen Curry and Jim Secord are on leave. We also welcome David Crawford, who will be a Research and Teaching Associate working in the Philosophy

of Science and Bioethics. Sarah Bull, Agnieszka Doroszuk, Jo Edge, Rosanna Evans, Jenny Mathiasson, Clare Matthews and Samuel Murison also joined the Department in this year.

We said goodbye to Andrew Buskell, Marion Godman, Clare Griffin, Beth Hannon, Ruth Horry, Eóin Phillips and Sophie Waring. Tiago Mata and his team also left, moving to UCL in January 2015, so we say farewell to Tiago, Tomas Undurraga, Scott Anthony and Andrea Salter. Although Scott is now working in Singapore and Andrea has now taken up the position of Research Facilitator for our School, so we will continue to work closely with her.

The final note should mention the REF results, which were announced in December 2014. The Department was ranked second in the country to Oxford's Faculty of Philosophy. According to the REF 2014 'Power Indicator', which aggregates all three of the categories (Outputs, Impact, Environment); HPS is particularly strong in terms of 'Impact' (the new category introduced by HEFCE for the RAE 2014). HPS also had the largest submission by number of people (35) apart from Oxford (71.5). Taking this weighting into consideration, HPS was ranked second in the UK for all categories with 71.3% of 'outputs' (publications) ranked either as 4* ('world leading') or 3* ('internationally excellent').

Our successes speak for themselves and we continue to thrive. It is all thanks to our members of the Department of History and Philosophy of Science, the world-class Whipple Museum and the unrivalled Whipple Library that mean we remain a major centre for research and teaching in History of Medicine with an outstanding international reputation.



Staff and Students gather to celebrate the launch of Nick Hopwood's book at Peterhouse

Congratulations

The year began with the announcement that **Jenny Bangham** was awarded the 2014 Marc-Auguste Pictet Prize in the history of the life sciences in the twentieth century for her PhD thesis, written in HPS, on "Blood groups and the rise of human genetics in mid-twentieth-century Britain". Now at the Max Planck Institute for the History of Science in Berlin, Jenny is also an affiliated research scholar in HPS.

This was followed in October with news of **Andreas Sommer** starting a fellowship at Churchill; **Jonathan Birch**, who completed his PhD at HPS, won a 2014 Philip Leverhulme Prize for Philosophy; and congratulations to **Ayesha Nathoo**, another of our affiliated scholars, who was awarded a Wellcome Trust Research Fellowship to work for three years at the Centre for Medical History, University of Exeter on "Cultivating Relaxation in Twentieth-Century Britain". Ayesha will also be a collaborator on the Hubbub project at Wellcome Collection (London) - an exploration of rest and busyness - led by Felicity Callard.

In November, it was announced that **Helen Macdonald**, long-time friend and associate of the department, won the two Costa prizes and Samuel Johnson Prize for her book, *H is for Hawk*. The latter prize is awarded annually for the best non-fiction book in the English language. In the same month, **Sachiko Kusukawa** won the Pfizer Award for her book, *Picturing the Book of Nature*. The prize is awarded annually by the Society for the best academic book in the entire field.

In early December 2014, we heard the excellent news that **Steve John** and **Helen Curry** were each awarded a CSAH/CSHSS Early Career Fellowship at CRASSH for a term during the coming (2015-2016) academic year.

In March 2015, congratulations were given to **Jo Edge**, Assistant Editor on the Casebooks Project, on being elected as a Research Associate at Hughes Hall. **Allison Ksiazkiewicz**, who was one of our PhDs, was awarded a fellowship on "Archetypes of Nature: Visualizing Geological Landscape during the British Enlightenment" at the Paul Mellon Centre for Studies in British Art.

Caitlin Wylie was appointed in May 2015 as a tenure-track assistant professor in the Program in Science, Technology, and Society at the University of Virginia in Charlottesville. Caitlin completed her PhD at Cambridge in 2013 and has published widely, including a recent article 'The artist's piece is already in the stone': Constructing creativity in paleontology laboratories" in *Social Studies of Science*.

There were further congratulations for **Sachiko Kusukawa**, as she was awarded the title of Honorary Professor of History of Science by the General Board of the University of Cambridge, on the recommendation of the HPS Board. Sachiko has been a mainstay of our teaching and research profile for many years, and it is wonderful news that her many contributions have been recognised in this way.

In September, **Hannah Newton**, previously a postdoctoral assistant in the Department was awarded the European Association for the History of Medicine and Health (EAHMH) 2015 Book Prize for *The Sick Child in Early Modern England* (OUP). The Prize is granted to the best medical history monograph published in the last two years, on any aspect or period of medical history in Europe or the wider world.

We were also very pleased to hear that **Martin Rudwick** was awarded the BSHS Dingle prize for his book *Earth's Deep History* and **Jim Secord** got an honourable mention for his book *Visions of Science*.



Left to right: Sarah Bull, Margaret Carlyle and Jo Edge

Staff and Affiliates

Administrative Staff

Tamara Hug
Agnieszka Doroszkuk
Rosanna Evans
Agnieszka Lanucha
Louisa Russell
David Thompson

Computing Staff

Mark Rogers

Library Staff

Anna Jones
Agnieszka Lanucha
Clare Matthews
Dawn Moutrey

Museum Staff

Lorena Bushell
Rosanna Evans
Steven Kruse
Jenny Mathiasson
Joshua Nall
Alison Smith
Claire Wallace

Teaching Officers

Anna Alexandrova
Hasok Chang
Helen Curry
John Forrester
Marta Halina
Nick Hopwood
Stephen John
Lauren Kassell
Tim Lewens
Simon Schaffer
Jim Secord
Richard Staley
Liba Taub

Research Fellows and Teaching Associates

Scott Anthony
Salim Al-Gailani
Adrian Boutel
Boyd Brogan
Sarah Bull
Margaret Carlyle
Chris Clarke
Jo Edge
Marion Godman
Clare Griffin
Elizabeth Hannon

Mike Hawkins
Ruth Horry
Natalie Kaoukji
Tiago Mata
Richard McKay
Daniel Mitchell
Samuel Murison
Jesse Olszynko-Gryn
Yvonne Martin-Portugues
Valentina Pugliano
Rob Ralley
Andrea Salter
Eran Tal
Tomás Undurraga
John Young
Gabriella Zuccolin

Affiliated Lecturers & CTOs

Patricia Fara
Marina Frasca-Spada
Sachiko Kusakawa
Richard Serjeantson
Deborah Thom

College Fellows

Jeremy Butterfield
David Feller
Peter Jones
Melanie Keene
Simon Mitton
Andreas Sommer
Frances Willmoth

Emeritus Professors

German Berrios
Andrew Cunningham
Geoffrey Lloyd
Nick Jardine
Michael Redhead

Other UoC people who do HPS

Sara Baker
Nazim Bouatta
Michael Bravo
Angela Breitenbach
Adam Caulton
Tim Crane
Rebecca Flemming
Joel Isaac
Martin Johnson
Tony Lawson

David Leith
Scott Mandelbrote
Peter Mandler
Alexander Marr
Francis Neary
Brian Pitts
Huw Price
Sujit Sivasundaram
Jeff Skopek
David Sloan
Richard Smith
Emma Spary
Simon Szreter
Nic Teh

Affiliated Scholars

Robert Anderson
Alexi Baker
Debby Banham
Jenny Bangham
Katy Barrett
Christina Benninghaus
Marie-Françoise Besnier
Sanjoy Bhattacharya
Peter Bowler
Janet Browne
Alex Broadbent
Robert Bud
Tatjana Buklijas
S de Chadarevian
Gloria Clifton
Peter Collins
Sophie Defrance
Silvia De Renzi
Rohan Deb Roy
Katie Eagleton
Karin Ekholm
Martha Fleming
Roger Gaskell
Susannah Gibson
Jeremy Gray
Ole Grell
Philippa Hardman
Vanessa Heggie
Sonia Horn
Shelley Innes
Boris Jardine
Richard Jennings
Ludmilla Jordanova
Elselijn Kingma
Allison Ksiazkiewicz
Gerald Kutcher
Elaine Leong
David Leith
Chris Lewis

Staff and Affiliates

Helen Macdonald
Anita McConnell
Christina McLeish
Jim Moore
Adam Mosley
Ayesha Nathoo
Jaume Navarro
Hannah Newton
John Parker
Alison Pearn
Emma Perkins
Christopher Preston
Sadiah Qureshi

Jennifer Rampling
Chitra Ramalingam
Nicky Reeves
Sally Riordan
Ruth Richardson
Eleanor Robson
Martin Rudwick
Christine Salazar
Anne Secord
Mark Sprevak
Rebecca Stott
Nicholas Teh
Anke Timmermann

Laurence Totelin
Martin Underwood
Charissa Varma
Marion Vorms
Milena Wazek
Andrew Wear
Rick Welch
Paul White
Daniel Wilson
Catherine Wilson
Eli Zahar

Visitors and Students

Visitors

Carlos López Beltrán
José Beltrán
Qi Chen
Terence Doyle
Jason Grier
Alexandra Ion
Eugene Kang
Xiaojie Li
Sophie Ritson
Serge Reubi
Alan Robles
Efram Sera-Shriar

PhD students

Leah Astbury
Feraz Azhar
Megan Barford
Marina Bellego
Riana Betzler
Toby Bryant
Jenny Bulstrode G
Andrew Buskell
Stijn Conix
Charlotte Connelly
Stephen Courtney
Caitlin Doherty
Matthew Drage
James Hall
Sebastian De Haro
Stephen Irish
Elisa Izquierdo Acebes
Magali Krasny
Natalie Lawrence
Katrina Maydom
Esther Momcilovic
Dmitriy Myelnikov
Eoin Phillips
James Poskett
Emma Pyle
Timothy Rees-Jones
Vashka dos Remedios
Hardy Schilgen
Christophe Schinckus
Susanne Schmidt
Kathryn Schoefert
Minwoo Seo
Reuben Shiels
Tillmann Taape
Christopher Wagner
Michelle Wallis
Sophie Waring
Jack Wright

MPhil students

Stuart Agnew
Avnita Amin
Claudia Baisini
Azita Chellappoo
Connor Cummings
Theo Di Castri
Pedro Feijo
Pascal Frank
Ivory Hackett-Evans
Joshua Hunt
Brandon Jackson
Abhaya Jitendra
Patrick Kirkham
Sebastian Kroupa
Nicholas Levine
Sophie Osiecki
Jonathan Penn
Felix Puetter
Karoliina Pulkkinen
Harriet Rix
Thor Rydin
Claire Sabel
Amirah Sequeira
Sasha Suarez Amaya
Shawn Teo
Maria Terekhova
Ho-Kyung Whang

Part III students

Markus Anderljung
Eoin Carter
Petula Jefferies
Poppy Mallinson
Anna Martin-Kelly
Ezra Neil
William Peck
Ella Raff
Timothy Squirrel
Casey Swerner
Benjamin Taylor
Rachel Tulley
Bethany Venus
Jamie Webb
Barney Woodhouse
Tom Graham
Zac Baynham-Herd

Part II students

Alexander Aylward
Annabelle Bates
Sam Brooks
Sarah Choi
Kiara de Kremer
Mary Dai
Nicholas Dinan

Robert Hart
Francesca Hirst
Molly Hunt
Oliver Jackson
Charlotte Johnson
Mary Llewellyn-Smith
Michael Lynam
Abigail Magrill
Holly Owen
Alma Piotrowicz
Vincent Poon
Dylan Pritchard
Oliver Russell
Georgina Scarles
William Scott
Lucy Sharples
Vanessa Tyler

BBS Paper 2 (113) and Paper 5 (114)

Jennifer Bellamy
Sophie Canham
Amy-Beatrice Dighe
Eleanor Drabble
Mina Ibrahimi
Yibo Jin
Samantha Morrow
Sarah Stedman
Madeleine Stokes
Jae Yun
Holly Clothier
Jake Diack
Alice Spencer
Susanna Xu

BBS History and Ethics of Medicine (117)

Iona Charlton
Lucia Coulter
Jonathan Evans
Grace Hadley
Zachary Howe
Hannah Karet
Grace Langford
Samara Linton
Conrad Lippold
Samuel Martin
Thomas Ronan
Sharmila Walters

Comings and Goings

Scott Anthony initially moved along with Tiago Mata to UCL in January 2015 but has now taken a position in Singapore

Mary Brazelton took up the new lectureship in Global Studies of Science, Technology and Medicine in September 2015

Sarah Bull arrived at the beginning of May 2015 as a Wellcome Trust Research Fellow

Andrew Buskell left in June 2015 after working as an Invigilator since October the previous year

David Crawford was appointed as a Research and Teaching Associate in September 2015

Agnieszka Doroszuk came in January 2015 as our new Senior Accounts Clerk

Jo Edge started in October 2014 as a Casebooks Project Editor

Rosanna Evans started in July 2015 as a Receptionist and also took on one of the two Museum Technician roles

Marion Godman left at the end of March 2015 to take up a fellowship at Helsinki

Clare Griffin took up a position as a Postdoctoral Fellow at the Max Planck Institute for the History of Science in September 2015

Beth Hannon left HPS in April 2015 to start as Associate Director of the Forum for European Philosophy

Ruth Horry, who is now working at Wellcome Collection helping people engage with Henry Wellcome's objects, left in January 2015

Natalie Kaoukji started work as a Research Associate on Lauren Kassell's Casebooks project just before the start of this academic year

Clare Matthews arrived in January 2015 as our new Library Assistant, standing in for Dawn Moutrey while she is on maternity leave

Tiago Mata and his team moved to UCL in January 2015

Jenny Mathiasson is the second of the two Museum Technicians, she arrived in July 2015

Samuel Murison came to the Department in June 2015 as a Research Assistant

Eóin Phillips left in July 2015 after working as a Research Associate for three months

Andrea Salter, as part of the ECONPUB, moved with Tiago in January 2015, however she then went on to take up the position of research facilitator for our school

Efram Sera-Shriar was appointed to the one-year post as Research and Teaching Associate in History of Modern Science, starting in September 2015

Tomas Undurraga moved with Tiago to UCL in January 2015

Sophie Waring left in February 2015 after working for four months as a Research Assistant helping Hasok Chang



Left to right: Steve Kruse, Clare Matthews, Claire Wallace, and Anna Jones

Roles and Responsibilities

Departmental Positions

Head of Department: Professor Jim Secord

Administrative Officer: Ms Tamara Hug

Director of Graduate Studies: Dr Nick Hopwood

MPhil Manager: Dr Helen Curry

Part III Manager: Dr Stephen John

Part II Manager: Professor Hasok Chang

Part IB Manager: Dr Anna Alexandrova

Staff Development Officer: Professor Jim Secord and Ms Tamara Hug

Dignity Officer: Professors Hasok Chang and Liba Taub

College Liaison Officer: Dr Lauren Kassell

Chair of the Monitoring Committee: Professor Hasok Chang

Graduate Training Officer: Dr Anna Alexandrova

HPS Board and Degree Committee

Chair of the HPS Board Committee: Professor Simon Schaffer

Chair of the HPS Degree Committee: Dr Nick Hopwood

Professors and Readers: Professors John Forester, Hasok Chang, Tim Lewens, Simon Schaffer (Chair), Jim Secord, Liba Taub and Drs Nick Hopwood and Lauren Kassell

Curator and Director of the Whipple Museum: Professor Liba Taub

Secretary of the Board and Secretary of the Degree Committee: Ms Tamara Hug

Librarian: Ms Anna Jones

General Board Members: Professor Huw Price and Dr Joel Isaacs

Co-options: Drs Anna Alexandrova, Helen Curry, Stephen John, Jeremy Butterfield, Richard Staley

Elected Senior Members: Mr Peter Jones, Dr Marina Frasca-Spada Spada, Dr Sachiko Kusukawa, Dr Chris Clarke

Elected Junior Members: Undergraduates: Oliver Russell (Clare) and Bethany Venus (Clare) Graduate: Astbury (Clare) and Claire Sabel (Darwin)

Philosophy Faculty Board

HPS Representative: Dr Stephen John

Examiners

NST Part IB History and Philosophy of Science

Senior Examiner: Professor Simon Schaffer (M/E) and Lauren Kassell (L)

Examiners: Professor Hasok Chang, Drs Helen Curry, Nick Hopwood, Steve John and Eran Tal

NST Part II History and Philosophy of Science including BBS History and Ethics of Medicine

Senior Examiner: Dr Richard Staley

External Examiner: Dr Jeffrey Hughes (Manchester)

Examiners: Drs Anna Alexandrova, Salim Al Gailani, Marion Godman, Clare Griffin, Marta Halina and Valentina Pugliano

MPhil/Part III in History, Philosophy and Sociology of Science, Technology and Medicine

Senior Examiners: Professor Hasok Chang

Ordinary Examiner: Marta Halina

External Examiner: Dr Emma Tobin (UCL)

Prizes, Projects and Honours

Student Prizes

Sebastian Kroupa was awarded the twelfth Annual Rausing Prize for the best performance on the MPhil dissertation of the year

Joshua Hunt was awarded the eighteenth Annual Jennifer Redhead Prize for the best overall performance on the Essays component of the MPhil in History, Sociology and Philosophy of Science, Technology and Medicine

Alexander Aylward was awarded the Jacob Bronowski Prize for the best performance on the HPS Part II exams

Michael Lynam was awarded the Francis Willmoth Prize for the best performance in the dissertation component of the History and Philosophy of Science Part II course

Ben Taylor was the winner of the sixth Annual Peter Lipton Prize for the best overall performance in the History and Philosophy of Science Part III course

New Research Projects

Wellcome Trust

Jesse Olszynko-Gryn, a research associate on the Generation to Reproduction project, was awarded a Wellcome Trust research fellowship to work, for three years from October 2015 on 'Pregnancy testing over the counter, in activism and at home: Britain, c.1970–2015'.

Boyd Brogan has been awarded a Wellcome Trust Research Fellowship for a project on 'Maladies of Seed: Chastity Diseases in Early Modern England'. Boyd has been a Research Associate on the Casebooks Project for the past year, funded by the Isaac Newton Trust. Diseases of women in Richard Napier's casebooks are a central component of Boyd's past and future research.

Leverhulme Trust

Boris Jardine was awarded a 3-year Leverhulme Trust Early Career Fellowship to be undertaken at HPS and in collaboration with the Whipple Museum; he will take up the Fellowship on 1st March 2016. The title of his project is 'The Lost Museums of Cambridge Science, 1865–1936'.

Boris has already devoted several years to aiding the Whipple and understanding the development of Cambridge science, its buildings and its museums. His work on the Fellowship will be of very great value to the Department and the Museum.

Seminars and Special Lectures

Wellcome Lecture

Rebecca Flemming (Classics, Cambridge) delivered the Tenth Cambridge Wellcome Lecture in the History of Medicine on 15 January 2015 on 'One-seed, two-seed, three-seed? Reassessing ancient theories of generation'.

Rausing Lecture

Professor Jianjun Mei from the Needham Research Institute delivered the twentieth Annual Hans Rausing Lecture in the McCrum Lecture Theatre, Bene't Street on the subject of 'Metallurgy and Chinese Civilisation: An Historical Overview'.

Seminars, Graduate Workshops, Reading and Discussion Groups, and Language Groups

Departmental Seminars in the Department of History and Philosophy of Science organised by Richard Staley and Marta Halina

Cabinet of Natural History organised by Margaret Carlyle

Twentieth Century Think Tank organised by Richard Staley, Jesse Olszynko-Gryn and Helen Curry

Early Medicine Seminars organised by Lauren Kassell

History of Modern Medicine and Biology Seminars organised by Nick Hopwood and Helen Curry

Generation to Reproduction Seminars organised by Nick Hopwood and Lauren Kassell

Global Science organised by James Poskett, James Hall and Megan Barford

Things that Matter, 1400-1900 organised by Margaret Carlyle, Michelle Wallis and others

HPS History Workshop organised by Andreas Sommer and Seb Falk

CamPoS organised by Christopher Clarke, Huw Price, Jeremy Butterfield and Hasok Chang

Science in Print: Understanding Book Production from the Sixteenth to the Nineteenth Centuries organised by Roger Gaskell, Anna Jones and Jim Secord

Aims and Methods of Histories of the Sciences organised by Nick Jardine with Hasok Chang and Cristina Chimisso

Coffee with Scientists organised by Hasok Chang

Nature and Culture Reading Group organised by Beth Hannon

History and Theory Reading Group organised by Boris Jardine and Matthew Drage

Twentieth Century Reading Group organised by Jesse Olszynko-Gryn, Dmitriy Myelnikov, Kathryn Schoefert and Susanne Schmidt

Science and Literature Reading Group organised by Melanie Keene and Adrian Kent

Kant Reading Group organised by Angela Breitenbach and Thomas Land

Philosophy and History of Physics Reading Group organised by Daniel Mitchell, Hasok Chang and Jeremy Butterfield

AD HOC organised by Hasok Chang, Charissa Varma and Sophie Osiecki

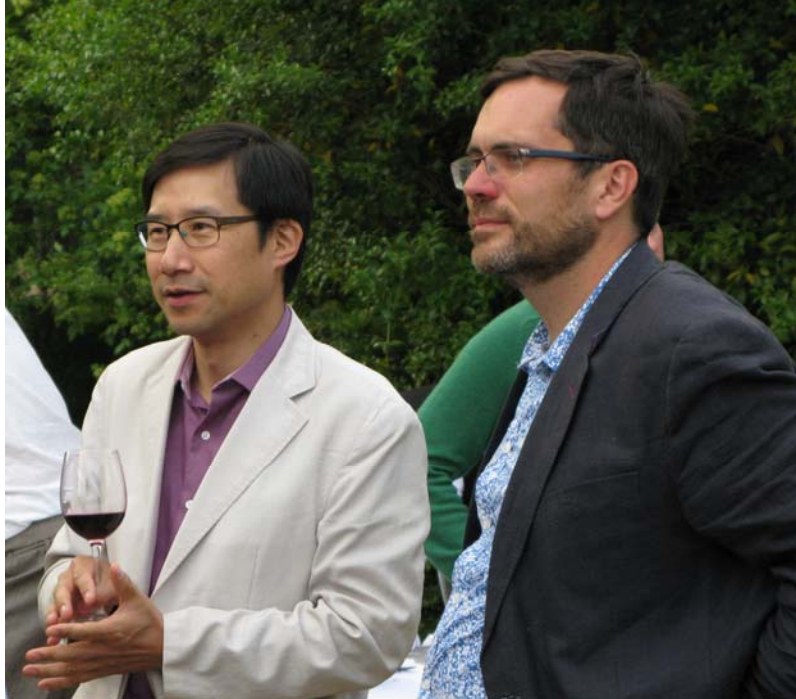
Philosophy of Psychology Reading Group organised by Riana Betzler

Latin Therapy organised by Tillmann Taape and Natalie Lawrence

Greek Therapy organised by Liz Smith

German Therapy organised by Susanne Schmidt

Arabic Therapy organised by Seb Falk



Left to right: Hasok Chang and Steve John

Students

Student Statistics

Undergraduates	Part IB	54
	Part II	40
	Part II BBS: History and Ethics of Medicine	15
	Part III	13
Graduates	MPhil.....	11
	PhD.....	39

Examination Results

Part II	1	15 (37.5%)
	2i	23 (57.5%)
	2ii	2 (5%)
	3	0
	Fail	0
Part II BBS: History and Ethics of Medicine	1.....	2 (13%)
	2i.....	10 (67%)
	2ii.....	3 (20%)
	3.....	0
	Fail.....	0
Part IB	1	11 (20%)
	2i.....	22 (41%)
	2ii.....	19 (35%)
	3.....	1 (2%)
	Fail.....	1 (2%)

Graduate Degrees Awarded

MPhil degrees awarded.....	11
Part III degrees awarded	13
PhD degrees award	6

Part II Essay and Dissertation Titles

Primary Source Essays

Primary Source 1: Chaucer's *Treatise on the Astrolabe*

Primary Source 2: Astrological Casebooks

- Medical treatments in Simon Forman's casebooks
- The re-use of cases from the casebooks in Simon Forman's 'The astrologicall judgments of phisick and other questions'
- Missing melancholy: complex disease categories in Simon Forman's casebooks

Primary Source 3: The Board of Longitude: materials and documents

- Why was the longitude scheme proposed by Whiston and Ditton dismissed?
- The authorship of an anonymous letter to MP Sir George Savile in 1773
- Was Longitudes Examin'd by Jeremy Thacker a satirical piece?
- Connections between The Longitudes Examin'd and John Arbuthnot

Primary Source 4: Mach's *Contributions to the Analysis of Sensations*

- Ernst Mach's Analysis of the Sensations and David Hume's Empiricism
- Kinds of time: expanding Ernst Mach's analysis of sensations
- Empiriocriticism: the distortions of a philosophy
- Why did Ernst Mach's work on relative time overshadow his work on psychological and physiological time?

Primary Source 5: Edwards, Bavister and Steptoe: IVF

- What ethical debates did 'Early Stages...' provoke between 1969 and 1971 in the scientific community?
- How did scientists and bioethicists criticise the 1969 paper, and how did Edwards et al respond?
- Why and how was 'Early Stages of Fertilization In Vitro' claimed as part of a wider 'biological revolution'? To what extent does this account for the media attention it received?
- In what ways was the media response to the 1969 Edwards, Steptoe and Bavister paper similar to or different from reactions to earlier claims to IVF?
- From 'Bonus on Valentine's Day' to patriarchal tool: feminist reflections on Early Stages
- Changing ethical responses to R.G. Edwards', B.D. Bavister's and P.C. Steptoe's 1969 paper: 'Early Stages of Fertilization in vitro of Human Oocytes Matured in vitro'
- How did John Maddox attempt to shape the presentation of and response to 'Early stages...' through his editorship of Nature and interactions with the press?
- What were the standards set and the strategies used in 'Early Stages of Fertilization' and were they accepted by their peers?
- How did Robert Edwards use his public media presence to shape the response to 'Early Stages of Fertilisation in vitro of Human Oocytes Matured in vitro' (1969)?

Primary Source 6: The Stanford School

- Does Hacking get the most from his microscopes?

Primary Source 7: Scientific Authorship

- To what extent does Healy and Cattell's 2003 paper, 'Interface between authorship, industry and science in the domain of therapeutics', point to a problem with industry involvement in biomedical research?
- Who is responsible for the misappropriation of biomedical authorship?
- What causes the prevalence of ghost-authored articles?
- Planning companies: not so bad after all?
- Do the findings of Flanagan et al. and Healy and Cattell point to a problem with peer review as practice and/or ideal?
- From individuals to institutions: redefining authorship in radically collaborative science
- Is it necessary to have someone from outside research who orchestrates research?
- Why do medical journals publish papers apparently critical of medical journals?
- Did the Healy and Cattell and Flanagan et al papers highlight problems with the authorship system in modern biomedical research?

Primary Source 8: Galileo's *Dialogue Concerning the Two Chief World Systems*

- The Dialogue and Galileo's Theory of the Tides
- Telescopic evidence in Galileo's Dialogue: use or abuse?
- How does Galileo portray the Aristotelian view?

Primary Source 9: The Molyneux Problem

Primary Source 10: Mill's *System of Logic*

- In Chapter 8 Mill criticizes interest-philosophy for focusing only man's pursuit of self-interest. Yet in Chapter 9, he defines the discipline of political economy by its focus on only one cause (man's pursuit of wealth). Is this a coherent view?
- Mill's compatibilism as an autobiographical reconciliation

Primary Source 11: Rachel Carson, *Silent Spring*

- Nuclear and chemical fear in Rachel Carson's Silent Spring
- Why, and in what ways, did Rachel Carson's portrayal of the effects of synthetic chemicals on human health in 'Silent Spring' provoke negative criticism?
- Depictions of children in Rachel Carson's Silent Spring
- Consumer perceptions of the health and safety of tinned foods in Britain, 1880-1900
- Rachel Carson's use of analogies in Silent Spring
- Who were the main critics of Rachel Carson and Silent Spring? How did they criticise her?
- Was Carson's Silent Spring an attack on capitalism?
- Is Silent Spring's appeal to the domestic ideal and simultaneous criticism of chemical producers problematic? Is the tension that arises a reflection of any political conditions that existed at the time of its publication?
- Fear, fable and uncertainty: a rhetoric analysis of Silent Spring

- Is Healey and Cattell's proposal regarding the withholding of data in biomedical research a satisfactory solution?
- Rachel Carson's presentation of the risks to children in *Silent Spring*
- Determining the tactics and motivations of Rachel Carson's various critics
- Radiation and chemicals in Carson's *Silent Spring*
- Tensions in the spring: the gendered tensions throughout Rachel Carson's *Silent Spring*
- Did Carson use the Cold War fear of invasion to gain support for her environmentalist anti-chemical agenda?
- Did initial responses to *Silent Spring* fail to confront the accuracy of Rachel Carson's scientific claims?

Dissertations

- The copper equation: copper sheathing in the 18th century
- Quantification in healthcare: QALYs
- Animation and explanation: debating matter and life in early 19th-century Britain
- Naming cancer: the exceptional case of CTVT from 1876 to 1913
- How have the fields of particle physics and condensed matter physics changed since the cancellation of the Superconducting Super Collider?
- Safe science for Catholics: Sir Bertram Windle (1858-1929) on evolution and religion
- The Turing Test through time
- Anthropology at war: a critique of the Human Terrain System
- Infectious disease and war: towards a new ethical framework in the treatment and containment of infectious disease
- The immunology of pregnancy in postwar Britain, focusing on haemolytic disease of the newborn and the Coombs test
- A time to be born? Induction in the British media, 1974-76
- Science and politics: creating public debate out of scientific consensus in the case of the HPV vaccine
- Did Darwin 'truckle'? The problem of a creator
- How anthropocentrism and an exaggerated view of our own mental complexity are obscuring research into animal cognition
- Sex, psychoanalysis and revolution: Wilhelm Reich in the second wave of feminism
- Life before its time: the extremely premature infant
- Women, healing and witchcraft in early modern England
- Classification in psychiatry: from a symptom based to a cause based model
- Lameness in dairy cattle and the impact of agricultural intensification on veterinary medicine
- The ethics of global research funding

MPhil and Part III Essay and Dissertation Titles

MPhil Essays

Callum Agnew

Essays

Genesis of an economic fact: the making of the World Top Incomes Database (supervised by Tiago Mata)

Qua what? On the ethical status of scientists (supervised by Stephen John)

The reception of Alan Turing's 'The Chemical Basis of Morphogenesis', 1952-1972 (supervised by Nick Hopwood)

Dissertation

Randomizing for evidence

Avnita Amin

Essays

Anatomical wax models and knowledge production in 18th-century England (supervised by Margaret Carlyle)

A space for the insane: Ticehurst House Hospital in 19th-century England (supervised by Andreas Sommer)

Clinical empathy and countertransference – a way of exploring emotions in end-of-life care (supervised by Paul White)

Dissertation

A space for dying: an exploration into the design of St Christopher's Hospice, Sydenham and the spaces it created

Claudia Baisini

Essays

Variety of conceptual schemes: a less mediated contact with reality (supervised by Hasok Chang)

Redeeming the agent as the leader of moral action (supervised by Richard Holton)

Do thick concepts have a place in science? (supervised by Anna Alexandrova)

Dissertation

Facts are facts: intelligence objectively measured

Connor Cummings

Essays

An exploration of Hempelian insights into the disputed scientific and medical legitimacy of psychiatry's present taxonomy of mental disorders (supervised by Marion Godman)

The intellectual disregard of Richard Semon (1859-1918) (supervised by Hasok Chang)

Metaphorical science: an evaluation of Richard Boyd's 'theory-constitutive' metaphors (1993) and their ramifications for rational criticism and the nature of progress in science (supervised by Anna Alexandrova)

Dissertation

Visions of schizophrenia and schizophrenic visions: Francis Reitman's psychophysiological approach to schizophrenic art at the Maudsley and Netherne hospitals, 1938–1954

Theo Di Castri

Essays

Pipe dreams: rethinking petroleum pipelines past and present (supervised by Richard Staley)

Delanglard's Georama, Reclus's Great Globe and the 19th-century scientific self (supervised by Jim Secord)

Queer genes, queer brains: rethinking the debate over the biology of sexual orientation (supervised by Tim Lewens)

Dissertation

Psychiatry, government and early American drug policy: case studies from the early career of Dr Lawrence Kolb

Pascal Frank

Essays

The ethical importance of critical awareness in science (supervised by Hasok Chang)

The role of Animal Welfare Science in red meat slaughterhouses (supervised by Helen Curry)

A question of practicability: the making of anxiety disorder in the DSM-III (supervised by Sarah Marks)

Dissertation

Diagnosing anxiety disorder: the idiosyncratic practice of a standardized procedure

Ivory Hackett-Evans

Essays

Natural childbirth and self-governance: Inuit women's use of two distinct activist movements to advocate traditional childbirth in northern Canada (supervised by Salim Al-Gailani)

Build back better: how constructions of Moken knowledge resulted in limitations in the post-2004 tsunami rebuilding projects for the Moken (supervised by Richard Staley)

The rise and fall of a social movement? The Intersex Society of North America and its challenge to medical authority (supervised by Anna Alexandrova)

Dissertation

NGOs, media and celebrity intervention: the humanitarianisation of population control in postcolonial Britain

Joshua Hunt

Essays

Understanding Ligand field theory through symmetry (supervised by Jeremy Butterfield)

Toward a noncognitive account of scientific understanding (supervised by Hasok Chang)

Dirac's quantum algebra: symmetries and selection rules, sans group theory (supervised by Richard Staley)

Dissertation

Interpreting the Wigner-Eckart theorem

Brandon Jackson

Essays

The cybernetic retina: Horace Barlow and the observation of thought (supervised by Richard Staley)

Tuning out knowledge: radio interface design in interwar Britain (supervised by Helen Curry)

The sky at a glance in Victorian England (supervised by Jim Secord)

Dissertation

Looking up at the falling stars of 1866

Abhaya Jitendra

Essays

'Disposable statistics', or how I stopped worrying and learned to love bad science: pluralism and the production of ignorance in the case of minimum unit pricing (supervised by Stephen John)

Observing inside the field: G.S. Ghurye's Caste and Race in India and the spectres of W.H. Rivers, Orientalism and nationalism(s) (supervised by Richard Staley)

Diabetes, race, control: medical responses to South Asian diabetes in the UK, 1975-90 (supervised by Nick Hopwood)

Dissertation

Field and fieldwork in Indian anthropology: a study of Man in India, 1920-52

Patrick Kirkham

Essays

The Bogdanov affair (supervised by Richard Staley)

The geological education of Adam Sedgwick (supervised by Jim Secord)

Inductive risks: what should the scientist do? (supervised by Stephen John)

Dissertation

"The fight for autism rights is the civil rights movement of our times": historical reflections on the autism rights movement

Sebastian Kroupa

Essays

Ignaz von Born's Monachologia (1783): Carl Linnaeus in the Emperor's service (supervised by Patricia Fara)

Bohuslav Balbín's Miscellanea (1679-1688): drawing patriotic pride from the study of nature (supervised by Nick Jardine)

Humanists and travellers, Gorgons and gorillas: Hanno the Navigator's Periplus through the eyes of early modern scholars (supervised by Natalie Kaoukji)

Dissertation

Ex epistulis Philippinensibus: Georg Joseph Kamel SJ (1661-1706) and his correspondence network

Nicholas Levine

Essays

"This utopia is presented in the form of a graph': the Laffer curve and the rise of supply-side economics, 1972-1982 (supervised by Tiago Mata)

"You must recognize that you have a limited channel capacity': information overload in postwar America (supervised by Nick Hopwood)

Corporate identity: the Myers-Briggs Type Indicator and personality diversity (supervised by Helen Curry)

Dissertation

The IQ elite: meritocracy and the politics of intelligence, 1958-1969

Sophie Osiecki

Essays

The meaning and measurement of electricity in the 18th century: electroscopes to separation electrometers (supervised by Hasok Chang)

Are interactive kinds fundamentally distinct from indifferent kinds? (supervised by Anna Alexandrova)

The lack of 'sue' in 'superiority': are experiments epistemically superior to computer simulations? (supervised by Eran Tal, Anna Alexandrova)

Dissertation

The development of the pH concept and methods of measurement

Jonathan Penn

Essays

Is Sadi Carnot's heat-engine a Romantic Machine? (supervised by Simon Schaffer)

Guns and codes: the introduction of entropy into information theory (supervised by Richard Staley (and Helen Curry)

Logic, labor and organization: establishing EDSAC in Cambridge (supervised by Helen Curry (and Richard Staley))

Dissertation

Automata, axioms and the Air Force: on the origins of John von Neumann's theory of reliability

Felix Puetter

Essays

Four modes of model-based representation (supervised by Anna Alexandrova)

Emil Du Bois-Reymond's Ignorabimus speech as a liberation of natural science (supervised by Nick Jardine)

Beyond representation: new approaches to maps and models (supervised by Hasok Chang)

Dissertation

Measuring the unknown: Alexander Dalrymple and Terra Australis in the 18th century

Karolina Pulkkinen

Essays

Stretching the rule: problems for the flexible acceptance principle (supervised by Stephen John)

Understanding, explanation and communication (supervised by Anna Alexandrova)

Scientific personae and the boundaries of science: the case of Alfred Russel Wallace (supervised by Jim Secord)

Dissertation

Simplicity and completeness

Sarah Rivers-Martin

Essays

The role of speculative fiction in debate about the social implications and possibilities of biotechnology and genetic engineering at the turn of the 21st century (supervised by Helen Curry)

A critique of historical critiques: an evaluation of the writing of critical psychiatrists Szasz, Healy, and Moncrieff, and their use of history in the analysis of modern psychiatry's flaws (supervised by Sarah Marks)

"The most beautiful thing a man can do for a woman"? Vasectomy, 'vasectomania' and masculinity in Britain, c.1970 (supervised by Jesse Olszynko-Gryn)

Dissertation

Historical perspectives of the treatment of anorexia nervosa in late 20th-century Britain: an exploration of debates of clinical iatrogenesis

Harriet Rix

Essays

The teaching diagrams of John Stevens Henslow: botany in 19th-century Cambridge (supervised by Anne Secord)

The jurist and the physician; what can manuscript annotations on the first Greek printed edition of Pedanius Dioscorides' *Materia Medica* tell us? (supervised by Scott Mandelbrote)

Fearing privatisation: what clues does sci-fi provide about the trajectory of biochemistry after the Second World War? (supervised by Helen Curry)

Dissertation

What were the preparations made by Francis Vernon (1637-1676) for a journey to the East?

Thor Rydin

Essays

The Leibniz-Clarke correspondence from an epistemological perspective (supervised by Marina Frasca-Spada)

Virtue and reflexivity in Diderot's method (supervised by Nick Jardine)

The possibility of a mindless speaker: a study of Condillac and Herder on language (supervised by Martin Ruehl)

Dissertation

The 'I' in language: from Descartes to Herder

Claire Sabel

Essays

Jan Swammerdam's visions of nature (supervised by Sachiko Kusukawa)

Colour values: Joseph Lovibond's Tintometer and the scientific meanings of vision (supervised by Richard Staley)

Scientific literacy and the role of HPS in its promotion (supervised by Hasok Chang)

Dissertation

The impact of trade with southeast Asia on mineralogical thought in early modern Europe

Amirah Sequeira

Essays

Sleeping sickness in the news: colonialism, disease and race in Britain and the United States in the early 20th century (supervised by Salim Al-Gailani)

Sickle cell disease in Britain: black women's activism and the politics of science and race in health care (supervised by Jesse Olszynko-Gryn)

Activist opposition to the Medicines Patent Pool: contested territory in a shifting pharmaceutical economy (supervised by Nick Hopwood)

Dissertation

Conflicts between indigenous healing and biomedicine: self-determination in health care and Canada's Indian Health Transfer Policy

Lara Spencer

Essays

Approaches to retrocausality in quantum theory, focusing on objections by Tim Maudlin and Howard Wiseman (supervised by Huw Price)

Kant's Third Analogy of Experience, space, and mutual interaction (supervised by Marina Frasca-Spada)

Bridging principles: epistemological problems in the search for neural correlates of consciousness (supervised by Adrian Boutel)

Dissertation

Explanation and idealisation: difference-makers, fictionalisers and compatibility

Shawn Teo

Essays

Leviathan – sea serpents and the politics of observation in Victorian England (supervised by Jim Secord)

Ethics in crowdsourcing (supervised by Stephen John)

Monkey business: commercialism, conservation and education in contemporary zoos and wildlife attractions (supervised by Helen Curry)

Dissertation

Science, morality and political power: social hierarchy and the scientific technocracy in the works of H.G. Wells

Maria Terekhova

Essays

The impact of the railway on cultural constructions of selfhood in England, 1830–1839 (supervised by Jim Secord)

Demarcation as a political strategy in the case of SETI criticism, 1980 to the present day (supervised by Helen Curry)

'Mens non facit saltus': arguing for the meme's heuristic utility in researching cultural evolution (supervised by Marta Halina)

Dissertation

'Anorexia nervosa', gender and the diagnosis of female mental illness in late-Victorian medicine

Cheyeun Whang

Essays

Double-jaw surgery, K-pop, and the 'Korean' face (supervised by Nick Hopwood)

Transgenic papaya and the history of Hawaiian agriculture (supervised by Helen Curry)

Science in the ring: boxing and the late Victorian body, 1888-1910 (supervised by Jim Secord)

Dissertation

Visions of American agriculture: the rise, fall and rise again of algae biofuel research, 1978-2015

Part III Essay and Dissertation Titles

Markus Anderljung

Essays

Cost-benefit analysis: a review of critiques from normative ethics (supervised by Stephen John)

Decision-making under radical uncertainty – a gain-of-function research case study (supervised by Marion Godman, Seán Ó hÉigartaigh)

Can false models reveal true natures of phenomena? If so, how?

All good explanations are mechanistic explanations. Do you agree?

Dissertation

Weighing the world: cost-benefit analyses of the sustainable development goals (supervised by Anna Alexandrova)

Zac Baynham-Herd

Essays

Tracing the origins of wildlife conservation in Britain (supervised by Helen Curry)

Reframing the argument for intrinsic value in nature: what good is it anyway? (supervised by Tim Lewens)

Darwin's statements about racial and gender inequality occupy only a small part of the *Descent of Man*, and are often said to be ambiguous and contradictory. Why are they historically significant?

In your view, in which ways has scientific knowledge improved over the centuries? Build on the work of Kuhn, Popper, or any other authors as appropriate.

Dissertation

In pursuit of plesiosaurs: Sir Peter Scott, British conservation, and the Loch Ness Phenomena Investigation Bureau (supervised by Helen Curry)

Petula Jefferies

Essays

The biotechnology boom: a critical literature review – what pushed biotechnology forward? (supervised by Helen Curry)

The untold aspects of solar neutrinos and the Homestake experiment (supervised by Richard Staley)

Darwin's statements about racial and gender inequality occupy only a small part of the *Descent of Man*, and are often said to be ambiguous and contradictory. Why are they historically significant?

How (or by what measures) can one assess the success of an experimental system?

Dissertation

Pest problems with radical solutions; radicalism and entomology in 1970s America (supervised by Helen Curry)

Anna Martin Kelly

Essays

Norheim and Cappelen's 2005 paper in the debate over responsibility and healthcare (Supervised by Stephen John)

Insurance time for the fetus: the RCOG and debating fetal viability in the 1980s (Supervised by Salim Al-Gailani)

How has the production and testing of pharmaceuticals changed since 1900?

In your view, in which ways has scientific knowledge improved over the centuries? Build on the work of Kuhn, Popper, or any other authors as appropriate.

Dissertation

3/4D foetal imaging and abortion in the British media, 2003-2007 (supervised by Nick Hopwood)

Neil Ezra

Essays

Mental disorders qua natural kinds: a critical literature review (supervised by Marion Godman)

Communicating risk in crises situations. Case study: Cambridge recombinant DNA controversy (supervised by Helen Curry)

How (or by what measures) can one assess the success of an experimental system?

What is the most convincing rebuttal of Rudner's claim that the scientist *qua* scientist makes value judgments?

Dissertation

Two degrees of saturation: communicating climate change to the public in the UK's media saturated environment (supervised by Richard Staley)

William Peck

Essays

Living exhibits in 19th-century Britain (supervised by Simon Schaffer)

From 'frivolous declaration' to routine: the making of ultrasonography as a foetal sexing technology (supervised by Jesse Olszynko-Gryn)

Darwin's statements about racial and gender inequality occupy only a small part of the *Descent of Man*, and are often said to be ambiguous and contradictory. Why are they historically significant?

'It was outside "the West" that the concept of "Western science" was itself first developed.' (Marwa Elshakry). Should 'western science' and 'modern science' be treated as equivalent terms by historians of science?

Dissertation

Denizens on display: a study of the relationship between living exhibits and anthropological institutions in 19th-century Britain (supervised by Richard Staley)

Ella Raff

Essays

An assessment of innate explanations of gender difference in aptitude for scientific professions: overstated claims to objectivity (supervised by Patricia Fara)

The conversazione and the laboratory: the linked spheres of the harmonograph (supervised by Joshua Nall)

Darwin's statements about racial and gender inequality occupy only a small part of the *Descent of Man*, and are often said to be ambiguous and contradictory. Why are they historically significant?

'It was outside "the West" that the concept of "Western science" was itself first developed.' (Marwa Elshakry). Should 'western science' and 'modern science' be treated as equivalent terms by historians of science?

Dissertation

"The poetical character [...] is not itself – it has no self – it is everything and nothing – it has no character' (John Keats): science, poetry and poems in the writing of Humphry Davy (supervised by Jim Secord)

Timothy Squirrel

Essays

Meta-expertise: assessing accounts of attribution of scientific expertise and discrimination between putative scientific experts (supervised by Nick Jardine)

A challenger for the BMI? The development and uses of the fat-free mass index (supervised by Nick Hopwood)

In your view, in which ways has scientific knowledge improved over the centuries? Build on the work of Kuhn, Popper, or any other authors as appropriate.

What is the most convincing rebuttal of Rudner's claim that the scientist *qua* scientist makes value judgments?

Dissertation

Delegating diagnosis to computers: IBM's Watson and the 'responsibility gap' (supervised by Stephen John)

Benjamin Taylor

Essays

The problems of 'popular science': critiques, responses and future directions (supervised by Joshua Nall)

Hyperactivity in the UK: towards a history without polemics (supervised by Sarah Marks)

Darwin's statements about racial and gender inequality occupy only a small part of the *Descent of Man*, and are often said to be ambiguous and contradictory. Why are they historically significant?

What is the most convincing rebuttal of Rudner's claim that the scientist *qua* scientist makes value judgments?

Dissertation

Non-genetic inheritance and intergenerational stability in modern evolutionary theory (supervised by Tim Lewens)

Rachel Tulley

Essays

A critical review of literature examining metabolic rift theory and its relevance to the discussion of anthropogenic climate change (supervised by Richard Staley)

The changing perceptions of postpartum illness (supervised by Andreas Sommer)

How has the production and testing of pharmaceuticals changed since 1900?

How (or by what measures) can one assess the success of an experimental system?

Dissertation

The problem of publication management: is Big Pharma undermining the system of biomedical research publication? (supervised by Stephen John)

Bethany Venus

Essays

Should the concept of consciousness be eliminated from psychological and neuroscientific research? (supervised by Marta Halina)

Resolving conflicts of value in clinical decision-making in psychiatry: the virtues and vices of values-based practice and evidence-based practice (supervised by Marion Godman)

Darwin's statements about racial and gender inequality occupy only a small part of the *Descent of Man*, and are often said to be ambiguous and contradictory. Why are they historically significant?

All good explanations are mechanistic explanations. Do you agree?

Dissertation

Disrupting the psychiatric metanarrative of knowledge: the emerging multiplicity of narratives within the recovery movement in tension with the mainstream shift towards recovery-oriented services in the UK (supervised by Deborah Thom)

Jamie Webb

Essays

The irrelevance of autonomy in mental disorder and its treatment (supervised by Marion Godman)

"Who is big pharma to say that?!" or putting placebo-controlled trials in developing countries to the interpersonal justifiability test (supervised by Stephen John)

Darwin's statements about racial and gender inequality occupy only a small part of the *Descent of Man*, and are often said to be ambiguous and contradictory. Why are they historically significant?

What is the most convincing rebuttal of Rudner's claim that the scientist *qua* scientist makes value judgments?

Dissertation

"Between a rock and a hard place": racial anti-realism as social constructivism de jure or social constructivism de facto (supervised by Tim Lewens)

Barney Woodhouse

Essays

Model organisms as models in Michael Weisberg's *Simulation and Similarity*: a critical review (supervised by Marta Halina)

Land users' knowledge in Aldo Leopold's animal population studies (supervised by Helen Curry)

Can false models reveal true natures of phenomena? If so, how?

What is the most convincing rebuttal of Rudner's claim that the scientist *qua* scientist makes value judgments?

Dissertation

Contested boundaries: physiology's internal milieu and the debates over vivisection and vaccination in late Victorian Britain (supervised by Paul White)

PhD Theses

Awarded

Jesse Olszynko-Gryn

Pregnancy testing in Britain, c.1900-67: laboratories, animals and demands from doctors, patients and consumers

(Supervised by Nick Hopwood)

Lena Zuchowski

On the Foundations of Chaos and Complexity: Definitions and Differentiations

(Supervised by Jeremy Butterfield)

Shahar Avin

Breaking the grant cycle: on the rational allocation of public resources to scientific research projects

(Supervised by Tim Lewens)

Eóin Phillips

Making Time Fit: Astronomers, Artisans and the State, 1770-1820

(Supervised by Simon Schaffer)

Sophie Waring

Thomas Young, the Board of Longitude and the Age of Reform

(Supervised by Simon Schaffer)

Dmitriy Myelnikov

Transforming Mice: technique and communication in the making of transgenic animals in the United States and Britain, 1974-88

(Supervised by Nick Hopwood)

Submitted

Kathryn Schoefert

The view from the psychiatric laboratory: the research of Ernst Grunthal and his mid-twentieth-century peers

(Supervised by John Forrester)

James Poskett

Metropole of the mind: phrenology and the making of global science, 1815-1923

(Supervised by Jim Secord)

Iris Montero

Transatlantic Hum: Natural History and the Itineraries of the Torpid Hummingbird, 1500-1800

(Supervised by Nick Jardine)

Stephen Irish

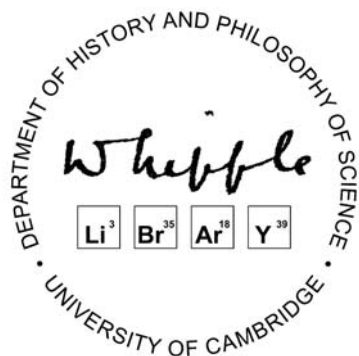
Analytic Crystallography in British Scientific Practice, 1798-1820

(Supervised by Hasok Chang)



*Jenny Bulstrode and
Dmitriy Myelnikov*

The Library



The Whipple happily combines an internal and outward focus in the communities it serves, and there were several opportunities to develop our activities in both areas in 2014-15. We began the year in buoyant mood with the launch of the Library's new logo, which soon began to turn heads in the Department and beyond when sported on the generously proportioned Whipple Library canvas bag, which we commissioned in time for the October intake. Bags soon reached across the globe (see below) and the first batch sold out during the year. (If you missed out, fear not, more stock is available in 2015-16!) Sincere thanks to Dr Ruth Horry for her help in realising the logo in a form that worked not only for screen printing, but which we've been able to use in many other contexts throughout the year.



A major theme for libraries in Cambridge at large in 2014-15 was 'library anthropology', a movement inspired by the application of adapted ethnographic techniques to examine how people use library and other work spaces with a view to developing services that better suit their current needs and habits. The ultimate aim is a further shift away from libraries as, primarily, repositories of collections in favour of fashioning creative work spaces where people engage with a range of technologies and resources in their pursuit of learning. The Department's

loyalty to Whipple's original vision to integrate historical material into modern teaching and research means that the gap between our collections and the needs of those studying History and Philosophy of Science has never seemed large. However, the context of this wider debate has been instructive as we've further developed our user education and outreach activities and looked at examples of good practice elsewhere, and we were pleased to receive good feedback after hosting a site visit by a team from the first international 'UXLib' conference held in Cambridge in March 2015.¹

User education

The reform of the Department's Graduate Induction programme for October 2014 brought a welcome opportunity to integrate information about library and other academic-related services at the Whipple and UL into the welcome meetings for new MPhil and PhD students in the first week of term, and the Library benefited from increased engagement with the large MPhil cohort in particular throughout the year as a result.



Building on the success of its first iteration in 2013-14, the Library's 'Science in Print' series was offered again in slightly revised form in the Michaelmas Term, presented by Roger Gaskell, Anna Jones and Jim Secord. Over the course of the five sessions we looked at a wide range of material from the Whipple and University Library collections, visited a replica hand press, and considered how to apply the study of the physicality of books in other contexts.

Once again places were booked up quickly, with a good balance of academic stages and backgrounds, and participants went on to use the experience they'd gained in examined work and elsewhere.



¹ <http://uxlib.org/>

The Library was pleased to assume responsibility for organising a pilot programme of study skills sessions during the year with funding from the School under its Teaching Associate Scheme. The sessions were targeted at undergraduates during the pilot, and in addition to general advice on essay writing for students new to HPS (including those studying History and Ethics of Medicine in the BBS Tripos), we also experimented with one-to-one writing support for students seeking help with stylistic issues when writing longer pieces of work such as the Part II dissertation. Feedback from the sessions was positive, and we look forward to developing the offering in future years.

IT & other initiatives

In a major project following in the wake of affiliation to the University Library in 2013, Whipple Library staff machines were transferred to the UL network over the summer of 2015, enabling us to collaborate more effectively with colleagues at the Main UL over shared projects. A display screen was installed on Level 2 to enable us to promote new events and activities in attractive ways to people passing through on their way to the Reading Room, and a dedicated 'Non-Print Legal Deposit' terminal was installed on Level 4 to provide access to academic content deposited at the British Library by publishers in e-only format, following the e-Legal Deposit Act of April 2014.

Library staff took a joint role in transferring the Department's teaching sites formerly hosted on CamTools to the new University Moodle environment over the spring and summer in time for its launch in the new academic year 2015. The result is a more user-friendly environment that can accommodate a wider range of file formats than its predecessor, and that encourages online discussion between course members. In further joint ventures between librarians across Cambridge, an online 'LibGuide' for 'History and Philosophy of Science' was prepared to provide collection-level information (encompassing hard copy and online material) for those new to the subject,² and the Whipple was delighted to submit an entry to the new 'Spacefinder' mobile site which describes work spaces around Cambridge according to their primary characteristics to enable people to find their preferred environment.³

Staffing, activities & development

The main staffing news of the year centres around the happy tidings of the birth of Jax Kingham to Dawn Moutrey (Library Assistant) and her husband Simon on 20 January 2015. Dawn began her maternity leave at the start of the month, and we look forward to welcoming her back in January 2016. We were delighted to welcome Clare Matthews to the team as Library Assistant in the meantime, and Clare has made a significant contribution to the Library and Department through her efficient grasp of Moodle and her enthusiasm for promoting the collections in interesting ways, inspired by her voluntary work for University of Cambridge Museums. Permanent staff Anna Jones (Librarian) and Agnieszka Lanucha (Library Assistant & Senior Clerical Assistant) were also joined by a lively and committed band of lunchtime and evening invigilators who are invaluable in enabling us to sustain extended opening hours during full term: Leah Astbury, Riana Betzler, Andrew Buskell, Rosanna Evans and James Hall.

² <http://libguides.cam.ac.uk/hps>

³ <https://spacefinder.lib.cam.ac.uk/>



In the absence of a libraries@cambridge conference in 2015 the team arranged its own development day with visits to the Wellcome Library and the Royal College of Physicians in London on 3 July. This proved an excellent opportunity to make connections with staff working with other collections of interest to the history and philosophy of science and to learn from the example of their use of space (notably the Wellcome Collection's 'Reading Room'⁴) and exhibition planning (notably the forthcoming John Dee exhibition at the RCP⁵). Thanks to Ross Macfarlane (Wellcome Library) and Katie Birkwood (RCP) for their time and warm welcome.

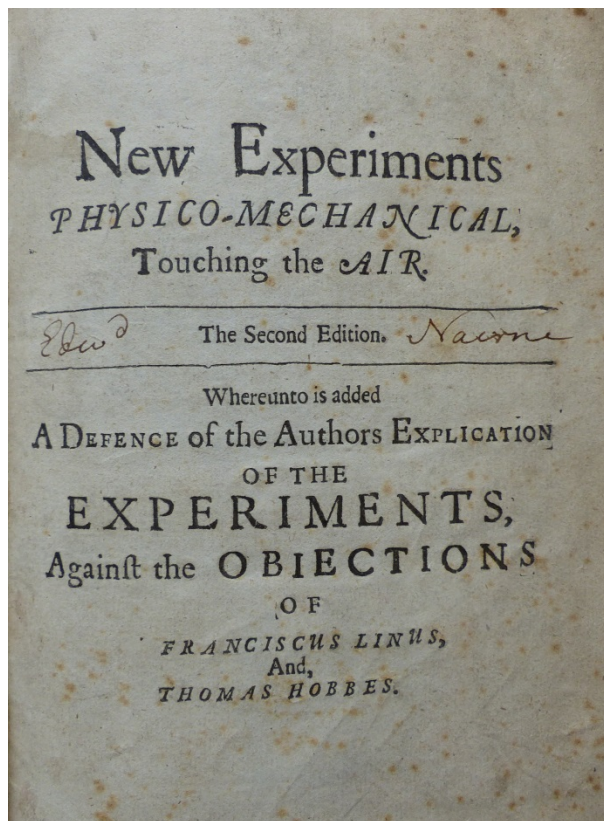
The Librarian represented the Whipple as a delegate at the following conferences during the year: the Historic Libraries Forum annual meeting on fundraising for special collections projects at Brunel University on 20 November 2014, 'From Cabinet to Internet: Digitising Natural History and Medical Manuscripts' at the Linnean Society, 27-28 April 2015, and 'Archival Afterlives' at the Royal Society on 2 June 2015. Within Cambridge she contributed to the Acquisitions work package as part of the 'Cambridge Libraries Connect' project to select a new library management system for University for implementation by September 2016, and was elected as a staff representative to the Cambridge University Library Syndicate for 2 years from January 2015. Other members of the team enjoyed visits to the University Library, Central Sciences Library and Zoology Library, and attended training on Moodle (VLE), Falcon (content management system), RDA/AACR2 (cataloguing), and using special collections material in exhibitions.

⁴ <http://wellcomecollection.org/readingroom>

⁵ <https://www.rcplondon.ac.uk/events/scholar-courtier-magician-lost-library-john-dee>

Acquisitions

604 printed items were catalogued and added to the collections in 2014-15, and a further 71 ebook titles were purchased by the Whipple for the use of all current University students and staff. We were fortunate to make a number of significant additions to our special collections during the year due to a combination of donation and purchase:



- Medical books from Prof. Karl Figlio

A generous donation of 11 medical titles (in 19 volumes) from the seventeenth, eighteenth and nineteenth centuries, to be catalogued when binding and conservation work is completed.

- Historical science books from the estate of Mr Michael Clarke

The Library was offered its choice from the library of the late Michael Clark, a former chemistry teacher and collector, and was pleased to accept 15 titles that significantly enhance our existing broad collections, including a copy of Thomas Sprat's *History of the Royal-Society of London* (1667) with frontispiece, and a second edition of Robert Boyle's *New Experiments Physico-Mechanical Touching the Air* (1662), signed by Edward Nairne.

- Collected works of Laplace and Lagrange, and annotated books from the library of G.H. Darwin

Events & outreach activity

We were pleased to be able to increase our offering of public events and outreach activities in 2014-15, thanks in large part to assistance from our colleagues in the Museum. Building on the success of our first effort in 2013, we offered another drop-in event as part of Open Cambridge on Friday 12 September, attracting 43 visitors, and participated in a combined leaflet highlighting library-related events over the weekend. This was followed in May by the Library's first involvement in 'Museums at Night', an evening event for adults where visitors are invited to 'meet the researchers' who've worked on various of the objects on display. Clare Matthews prepared and was on hand to interpret a comprehensive display of books on microscopy from the Turner Collection, and Anna Jones introduced New Gallery visitors to Robert Hooke's *Micrographia*, which celebrated its 350th birthday in 2015.

In a joint venture with the Museum's Learning Coordinator, the Library became involved in the UCM Post-16 learning programme to develop an education session for schools using material from the Whipple collections to illustrate topics linked to the National Curriculum for Science at Key Stage 4 (ages 17-18). Our 'Origin of Species' session, which considers the wider context of Darwin's publication, was offered twice in 2014-15 (once to a Year 12 school group and once to the Mature Students' Open Day) and can be repeated for future bookings on demand.

Clare helped maintain the tradition of in-house Library displays with a special feature of printed accounts of previous solar eclipses to coincide with the solar eclipse over the UK in March (better than the real thing which was largely covered by cloud), and a summer display of books on microscopy from the Turner Collection. Clare also collaborated with 2014-15 MPhil student Claire Sabel to produce a thought-provoking display on 'Colour Science', including a set of tintometer slides borrowed from the Museum, and the fruitful extension of an idea first developed by Claire in an MPhil essay. A Whipple Library 'treasures' event on the afternoon of the students' end of year party in June provided a last opportunity for those who hadn't managed to use items from our printed special collections during their time in the Department to see some of the best examples before they left Cambridge.

In addition to the annual visit of Graduate Trainees from Cambridge libraries in July, we also hosted a visit from the UL Readers Services Entrance Hall team in August in a welcome effort to help improve their understanding of the services offered in affiliated libraries.

Anna Jones
Librarian

The Museum



‘Looking at Whipple visitors’ main source of motivation, to be intellectually stimulated at 19% and to learn something at 18%, were both higher than the respective benchmark figures with social reasons at 15% significantly lower across the group as a whole.’ (Pfrommer, P. & Cowley, D. (The Audience Agency) 2014 *Cambridge University Museums benchmarking: Whipple Museum of the History of Science – Key themes summary*. Pg. 13)



3-D cardboard model of the human brain, by J. F. Lehmanns and Dr. Eduard M. W. Weber, German, mid C20th. This model was designed by Dr. Eduard M. W. Weber and produced by J. F. Lehmanns Verlag for students to comprehend spatial relationships between areas of the brain. It would have been accompanied by a book that instructed the reader how to build the model, *Gehirnschnitt-Modell (Brainsection-Model): Mit Ausführlicher Bauanleitung (Including a Comprehensive Guide to Construction)*.

This object is currently on display in the *Paper Scientific Instruments* display in the Main Gallery (guest curated by Dr. Boris Jardine and will be on display at the University Library from March 2016).

Exhibitions

Inside Out: Dr Auzoux's Papier-Mâché Bodies

In 19th century France corpses were scarce and medical students needed them for their studies. Using a secret papier-mâché mixture, Louis Auzoux came up with a solution, producing robust dissectible human models, later branching out into insects, horses' teeth, flowers and fungi.

Alongside the Fitzwilliam Museum's exhibition, 'Silent Partners: Artist and Mannequin from Function to Fetish', the Whipple re-displayed its collection of these spectacular models. This display was designed by Claire Wallace and Steven Kruse and opened as part of the University of Cambridge Museums' 'Curating Cambridge' festival.

<https://camunivmuseums.wordpress.com/2015/04/14/inside-out-dr-auzouxs-papier-mache-bodies/>

<http://www.itv.com/news/anglia/2014-10-30/papier-mache-human-anatomy-models-on-display-at-cambridge-museum/>

Science and Industry in Cambridge

The fascinating history of Cambridge science and industry was redisplayed in this special Whipple Museum exhibition designed by Assistant Curator Joshua Nall. Focusing on the stories of the people who worked for local firms like the Cambridge Instrument Company, as well those who studied and worked at the University, this new display shows how there is much more to Cambridge science than Isaac Newton and DNA. This exhibition also opened as part of the 'Curating Cambridge' festival.

Science and Racism in the Nineteenth Century

The Whipple Museum's collaboration with the Department of History and Philosophy of Science continued in 2014/15 with the installation of a display about Science and Racism in the Nineteenth Century. Constructed by James Poskett, a PhD student in HPS, this display of anthropomorphic instruments and illustrations discusses the development of 19th century racial theories and how both Europeans and people of African descent responded to stereotypes and racist ideologies in presentations of African culture. This exhibition, which opened in October 2014, marked Black History Month. It was accompanied by a trail linking our objects with others at the Fitzwilliam Museum, Cambridge.

http://issuu.com/fitzwilliam_museum/docs/black_history_month_trail/0

Special Projects

Gallery Development

The Main Gallery and New Gallery

Four new display cases were purchased to enhance the displays in the Main Gallery and the New Gallery. These new cases were used in the new exhibitions that were constructed for the 'Curating Cambridge' festival.

Storage

The work to replace the open shelving in the Whipple's stores has continued over the last year with more 'visible storage' cabinets purchased for Stores 1c and the Reserve Gallery. Funding for these storage cases was helpfully provided by the School of Humanities and Social Sciences. A new, sturdier picture rack was also purchased for the storage of framed flat material.

As part of the store moves, Whipple staff have been consolidating some objects containing plastic (which can be problematic from a conservation standpoint) and have been reviewing the way that these plastic items are stored.

The Museum staff have also been reviewing the storage of items containing radon paint and have entered into talks with The Polar Museum about the possibility of sharing the storage of these items.

Teaching and Research

Departmental Teaching

The Whipple Museum plays an important role in teaching within the Department of History and Philosophy of Science. Lecturers use the Museum displays and the collection to illustrate their own lectures, and lecture-demonstration classes on instruments, models and collections are specifically offered for Paper 1. Students have the opportunity to work with the Museum's collection as part of their studies and in recent years a number of undergraduates and postgraduate theses have been undertaken on objects in the collection.

Student and Staff Research

26th November 2014

Josh Nall gave a talk called 'Relics and reconstructions: Isolation and displacement in the display of past science' at the Art and Science of Curation Seminar held in Cambridge

28th November 2014

Josh Nall delivered the Departmental Graduate Training Seminar on 'Researching in Museums'. He explored different research methodologies utilizing material culture as a primary source.

12th December 2014

Josh was a participant in a conference plenary panel, 'Does the Museum Just Preserve the Museum?', at the Centre for Research in the Arts, Social Sciences and Humanities, Cambridge.

14th May 2015

Josh was a participant in the public panel discussion, 'Hidden Histories: Green Museums'. This discussion was held at The Polar Museum in Cambridge.

11th June 2015

Josh was a participant in a public panel discussion at 'Scholarfest. He was 'in conversation' with David Grinspoon and they spoke about 'Life: Future – Definitions of life in the 21st century and beyond'. This discussion took place at the John W. Kluge Centre at the Library of Congress in Washington D. C.

15th April and 14th July 2015

John Davis returned to the Whipple to undertake further XRF analysis on some of the objects in the collection. Josh Nall gave a talk called 'Working with Fakes: XRF Analysis of Whipple Museum Objects' at the 34th Symposium of the Scientific Instrument Commission in Turin on 9th September. Josh was also the co-convenor of the session 'Learning from Forgeries'.

Josh Nall published a book review on 'Steven J. Dick, *Discovery and Classification in Astronomy: Controversy and Consensus*' which was published in the *British Journal for the History of Science*, Vol. 48, No. 1, 2015, pp.189-191

Whipple Museum objects were also mentioned in the following papers which were published in 2014-15:

John Davis and Michael Lowne, 'An early English astrolabe at Gonville & Caius College, Cambridge, and Walter of Elveden's Kalendarium', *Journal for the History of Astronomy*, 2015, Vol. 46 (No. 3), 257-290. [Includes discussion of XRF analysis conducted on Wh.1264]

David Dunning, 'What Are Models For? Alexander Crum Brown's Knitted Mathematical Surfaces', *Mathematical Intelligencer*, 2015, Vol. 37 (no. 2), 62-70 [Based on MPhil research on Wh.4469 and Wh.4470]

Seb Falk, 'The Scholar as Craftsman: Derek de Solla Price and the Reconstruction of a Medieval Instrument', *Notes & Records of the Royal Society*, 2014, Vol. 68 (No. 2), 111-134 [Discusses construction and use of Wh.3271]

Seb Falk, 'A Spanish Globe: Origins and Interpretations', *Globe Studies*, 2014, Vol.59/60, 142-159 [Based on MPhil research on Wh.5892]

James Poskett, 'Sounding in Silence: Men, Machines and the Changing Environment of Naval Discipline, 1796-1815', *British Journal for the History of Science*, 2015, Vol. 48 (No. 2), 213-232 [Based on MPhil research on Wh.2970]

James A. Secord, *Visions of Science: Books and readers at the dawn of the Victorian age* (Oxford: Oxford University Press, 2014) [Illustrates and discusses Wh.6033]

Stanley Warren, 'The Micrograph', *Micro Miscellanea: The Newsletter of the Manchester Microscopical & Natural History Society*, 2014, Issue 85, 14-24. [Includes a reference to Wh.0257]

MPhil Essays and Theses

Jonnie Penn	'Logic, Labour and Organisation: Establishing EDSAC in Cambridge.'
Harriet Rix	'The Teaching Diagrams of John Stevens Henslow: Botany in 19 th Century Cambridge.'
Claire Sabel	'Colour Values: Joseph Lovibond's Tintometer and the Scientific Meanings of Vision.'

Formal and Lifelong Learning

Over the last year, Lorena Bushell's main goal has been to develop the Whipple Museum's learning programmes. With the help of the UCM, an intern was recruited to help develop our formal learning provision for schools. We now have a total of nine taught sessions available for primary and secondary schools, including an A-level session in collaboration with the Whipple Library about Charles Darwin. The first of the Darwin subject taster sessions took place on 14th September 2015.

The Whipple continued to take part in public engagement programmes through events such as the 'Science Festival', 'Festival of Ideas', 'Open Cambridge' and 'Twilight at the Museums' and once again contributed to 'Museums at Night'. In order to help us take part in these initiatives, Lorena recruited a new team of volunteers who have been helping to deliver events for different audiences.

With the help of Rosanna Evans, Lorena has developed new family adventure bags and handling boxes. Each of the four bags relates to a fun theme linked to key objects in the Museum. With the help of an immersive trail and a series of handling objects, each bag takes the participant around the entire Museum. All bags are linked to the new handling boxes, so that after completing one of the trails, families can continue to work together as a team to solve the puzzles in each handling box.

Lorena has also been taking handling material and outreach activities out of the museum to locations such as Meadows Community Centre on 10th November 2014 and ChYpPs on 5th August 2015. The Whipple has also played host to several artist installations. Georgie Grace installed a 'Mars Tent' in the New Gallery on 30th October and on 19th February artist Susie Olczak held a 'SOURCE' drop-in session for GCSE and A-Level art students.

Outreach Events

The following events were supported by funding from the Connecting Collections project, made possible by a grant from Arts Council England [www.artscouncil.org.uk].

Curating Cambridge

From 20th October to 23rd November 2014, the University of Cambridge Museums presented a five-week programme of exhibitions, events and activities with the Festival of Ideas and other partners and organisations across the City. Curating Cambridge was about celebrating everything that makes Cambridge what it is - the people, the places, the tales and the triumphs. The below events, forming part of Curating Cambridge took place at the Whipple Museum:

The Incredible World of Dr. Auzoux (with the Museum of Zoology)

27th and 31st October 2014

The Whipple Museum and Museum of Zoology investigated Dr. Auzoux's spectacular papier-mâché anatomical models of humans, plants and animals.

Explore and Discover: Saturday Opening

1st November 2014

A special Saturday opening where visitors explored the celestial and terrestrial through globes, astrolabes, telescopes and orreries, finding out about the ground breaking work of scientists through their instruments, tools, models and machines

There was also a talk entitled 'Tech, Tools, and Toys of Science before 1800'. Science didn't exist as we know it until the 1800s. Before then, 'scientific instruments' could be cutting-edge tech but also everyday tools or fashionable toys. CRASSH Fellow Dr. Alexi Baker relived the early modern world by exploring its technology!

Museum Tours: Science and Industry in Cambridge

3rd, 10th and 17th November 2014

Curator-led tours of the Whipple Museum's collection, where visitors heard fascinating stories from the history of science in Cambridge. Spanning two-hundred years of city industry and university research, there's much more to Cambridge science than Isaac Newton and DNA.

Twilight at the Museums

At 4.30pm on 18th February 2015 the lights were dimmed for Twilight at the Museums. Armed with torches, visitors (especially the very young) enjoyed an unusual and atmospheric experience. A 'Cosmic Mission'-themed trail led visitors around the galleries, enabling them to collect a sticker for each object they could find. Visitors looked at our galaxy from the comfort of planet Earth using torches to find out if they had what it takes to be a space explorer.

This was an extremely popular event with 1320 people attending over the course of the evening. This made it a record day for attendance at the Whipple with over 1387 visitors coming to the museum in one day.

Cambridge Science Festival

The quest for the curator's code

14th and 15th March 2015

In this exciting activity visitors used all of their scientific thinking skills to solve a series of fiendish puzzles hidden within the depths of the Whipple Museum. They needed to decrypt messages, break into safes, and navigate treacherous booby traps to solve the mystery behind the Curator's code.

This activity followed on from the past Cambridge Science Festival events: "The Secret of the Sinister Scientist" and "The Mystery of the Horrible Hypothesis". As with these past events, guests were divided into small groups and given a personal guide to help them through the activity. Along the way, guests saw 3D videos, solved puzzles and won prizes. The activity did not stop at the end of the session; further puzzles were available to solve after the event!

Lunchtime Talks at the Whipple Museum

Since the 1860s the New Museums Site in the centre of Cambridge has been one of the University's iconic locations, home to a fascinating variety of scientific work. At a time when the site is seeing many of its science departments leave for new facilities in west Cambridge, 2015 is an ideal time to look back on its extraordinary past. Two talks, by Professor Simon Schaffer and Dr Richard Staley, considered aspects of the site's long history, from the complexity of its origins to its heyday as a centre of cutting-edge research.

The Cavendish and Victorian Cambridge: founding a laboratory, finding a role

16th March 2015

The laboratory set up at the northern end of Free School Lane in the early 1870's eventually became one of the world's leading institutions of experimental physics but this would have seemed most unlikely, and in some ways undesirable, to many of those involved in the foundation of the Cavendish. Its site, its staff and its aims were all highly controversial. This illustrated talk explored some of those fascinating debates: and linked them with much longer term questions about scientific sites, their audiences and their functions.

This talk was given by Professor Simon Schaffer.

Cloud chambers: tracking the history of particle physics in Cambridge

18th March 2015

This talk explored the origins of CTR Wilson's cloud chamber in meteorological research in 1895, and the way from 1911 it was used to take photographs of particle tracks and later helped open up research on cosmic rays by providing evidence for the existence of new particles. Exploring the variety of uses it was given in the hands of Wilson and others such as PMS Blackett and Giuseppe Occhialini helped the exploration of subatomic nature, meteorology, and the social environment of the Cavendish laboratory from the 1890s through to the 1940s.

This talk was given by Dr Richard Staley.

Museums at Night

Take Two: Meet the Researchers at the Whipple Museum of the History of Science

15th May 2015

Once again, young researchers who have worked with the Whipple Museum and Library's fascinating collections returned to take over our galleries to chat and uncover the many intriguing stories behind the objects. A complementary glass of wine was served as visitors explored the Museum after hours.

University Open Days

On 2nd and 3rd July the Museum was open from 10am for visitors to explore whilst they were in Cambridge for the University's Open Days. Anna Alexandrova also gave a talk in the New Gallery to prospective students.

Summer at the Museums

All about that fungus

3rd and 17th August 2015

Visitors were invited to take a close look at the fungi models made by one of Cambridge's famous fungus experts, and had the opportunity to make their own models to take home.

Darwin Delights

10th August 2015

The Museum of Zoology visited the Whipple Museum to explore Darwin's life and discoveries. Visitors learned about the instruments he used, the specimens he collected, and could make their own microscope slide to take home.

The Summer at the Museums events were all reported on the UCM blog (<http://camunivmuseums.wordpress.com/tag/summer-at-the-museums/>).

Other Events

SHARE course

15th October 2014

The Cambridgeshire Museums Education Group training, organized by SHARE Museums East was held in the New Gallery.

‘Rising Stars’ course

3rd December 2014

We hosted the ‘Rising Stars’ course in the New Gallery. This course is run by the University’s Office of External Affairs and Communications and is for postgraduates, post-docs and early career academics who require training in public engagement and educational outreach.

Whipple trip to ‘Finding Longitude’

9th December 2014

The Whipple Museum was closed to enable all staff to visit the National Maritime Museum in London. We had the privilege of viewing the Portuguese Compass (Wh.0328) and the Babbage Difference Engine (Wh.2339) which had been loaned to NMM for their ‘Finding Longitude’ exhibition and also met with curators Richard Dunn and Katy Barrett.

‘Laboratories and Disciplines’ seminar

10th February 2015

We hosted a Paper 4 seminar in the New Gallery on ‘Laboratories and Disciplines’. This seminar was organised by Richard Staley and included the use of objects from the collection.

Michael Clark bequest

19th February 2015

Michael Clark sadly passed away. Both Liba Taub and Josh Nall attended his funeral on behalf of the Whipple. He had previously corresponded with Liba about his collection of scientific instruments and very kindly bequeathed them to the Whipple following his death.

‘Great Expositions’ seminars

During the Easter Term, we hosted a seminar series in the New Gallery on global expositions. This seminar series was organised by Richard Staley and Miriam Levin and included the use of objects, books and maps from the collection.

Don Unwin conference

At the beginning of 2015, we received the sad news that friend of the Whipple, Don Unwin, had passed away. Don’s replicas of the Grand Orrery and the Wallingford clock are very popular exhibits in the Museum. Claire Wallace, Steven Kruse and Josh Nall all attended Don’s funeral on behalf of the Whipple on 20th February.

To celebrate his life, we held a special conference, ‘The Thingmaker’ in the New Gallery on 30th September. The conference was attended by Don’s daughter, Marilyn, and included personal recollections on Don’s life and work as well as a tour of the replicas that were built by Don. The day was a fine tribute to an exceptional person.

Special Visits

1st October 2014

Josh Nall gave a tour to a group of Russian engineers.

The 1st December saw the Whipple playing host to the Royal Astronomical Society Heritage Committee meeting.

8th December 2014

We welcomed Bedwyr Williams to the Whipple. Bedwyr is an acclaimed artist who was selected to work with the University of Cambridge Museums on NW Cambridge Art Programme. More about his work can be read on his blog: <http://www.nwcambridgeart.com/artist-residencies/blog/bedwyr-williams-filming-university-cambridge-museums/>

20th January 2015

Sharon Heal, the Director of the Museums Association, visited the Whipple. Josh Nall gave her a tour as part of her visit to all of the University of Cambridge Museums.

18th March 2015

Josh Nall, Steven Kruse and Seb Falk took several Whipple objects to the 'Guild of Benefactors' reception which was held at the Senate House. This was an opportunity for donors to the University to gather and all of the University of Cambridge Museums were represented.

25th March 2015

We hosted a visit from the Science Museum Directorate. They were given a tour of the Whipple by Liba Taub and Josh Nall.

1st May 2015

The School of Humanities and Social Sciences held an Administrators meeting in the Whipple's New Gallery. Josh Nall gave them a tour and we were pleased to be able to offer them a meeting space in such historic surroundings.

17th June 2015

We hosted a reception to mark the launch of the DAAD, a German Academic Exchange Service.

28th July and 5th August 2015

We held the event 'The Quest for the Curator's Code'. These events were part of the Widening Participation scheme the University takes part in and were a way of reaching out to prospective students.

30th July 2015

We hosted a visit from the Carl Zeiss Microscopy group. They were given a tour of the Whipple by Josh Nall.

20th August 2015

We hosted an A-Level access event, organised by James Poskett for the Sutton Trust History programme. He and Josh Nall used objects from the collection to fuel discussion with the prospective university applicants.

26th and 27th August 2015

We hosted a visit from Michael Korey and Marv Bolt. They were conducting optical research into early telescopes in the collection for their 'Dioptrice' global survey.

29th September 2015

We held a school session which was run by Lorena Bushell and an artist working with the UCM to create a Twilight Light Installation for next year's Twilight at the Museums.

Television, Radio and Magazine Appearances

27th October 2014

Claire Wallace was interviewed by ITV Anglia about the 'Inside Out' exhibition of Auzoux objects.

<http://www.itv.com/news/anglia/2014-10-30/papier-mache-human-anatomy-models-on-display-at-cambridge-museum/>

6th and 7th November 2014

Ruth Horry was interviewed by the University's Communications office about her research on Dillon Weston's glass fungi. <http://www.cam.ac.uk/research/features/the-flying-scientist-who-chased-spores>

16th December 2014

Josh Nall was interviewed for a Fitzwilliam Museum podcast for the 'Silent Partners' exhibition. He was interviewed to discuss the Whipple's complementary display of models by Auzoux. <http://tinyurl.com/o9p68ht>

3rd March 2015

Josh Nall was interviewed for the Naked Scientists podcast 'Eureka! Experiments that Changed the World'. This podcast was also broadcast on BBC Radio 5 Live, BBC Cambridgeshire and ABC Radio. <http://tinyurl.com/oa2mooc>

Claire Wallace was also interviewed by the University's Communications office for a feature called 'H is for Horse', part of the University's Animal Alphabet series. Once published, this feature was picked up by The Guardian. Claire was also interviewed on 6th August 2015 by Cambridge TV about the horses teeth for a news feature later in the year. <http://www.cam.ac.uk/research/features/h-is-for-horse>
<http://www.theguardian.com/culture/2015/jul/19/artificial-horse-teeth-cambridge-whipple-museum-history-science>

4th August 2015

Ruth Horry was interviewed once again on by ITV Anglia about her research on Dillon Weston's glass fungi. <http://www.itv.com/news/anglia/search/?q=glass+fungi>

Grants and Donations

Connecting Collections

As part of the UCM project 'Connecting Collections', the Whipple has had the opportunity to apply for some extra funding for special projects.

Lorena Bushell received a Strategic Enablement Grant of £5000 to enable her to provide education and outreach activities throughout the year.

We received £500 funding to allow us to be open on occasional weekends throughout the year. We were also awarded an allowance of £500 to support workforce development and attendance at conferences.

Whipple Museum of the History of Science Conservation Fund

Following the establishment of the Whipple Museum of the History of Science Conservation Fund, Robert Whipple's grandchildren have continued to be very generous to the Museum and have given further donations to help preserve the collection.

The Whipple has continued to receive funding from Connecting Collections for several conservation interns to join us to help with the cleaning of objects in advance of the 'Inside Out' exhibition and also the preparation of condition reports for new acquisitions.

PRISM Fund

We received £20,000 from the PRISM fund in order to purchase the Charles Elcock collection of microscope slides as well as preparatory tools, materials and sketches.

Other Donations

We thank Anita McConnell and the Ann D Foundation for their continuing contributions.

Staff News

Rosanna Evans continued in her role accessioning new objects into the collection following her graduation in June 2014. She also assisted with the digitization of all of the object image slides and had a major role in assisting Lorena Bushell with new handling trail bags and object boxes. On 13th July 2015, she was awarded the post of Museum Technician which is a part-time, fixed-term post until 2017.

Jenny Mathiasson joined the team as a part-time, fixed-term Museum Technician on 27th July 2015 and has been mainly focusing on repairs to objects. Jenny has worked at the Whipple before as one of the UCM conservation interns.

Josh Nall continued to serve as a Trustee and Committee Member of the Scientific Instrument Society and also as a Trustee and member of the Board of Directors at the Museum of Cambridge.

Lorena Bushell has recruited a pool of 12 volunteers who have helped with staffing events and activities. She also had help from Emma Pyle (an HPS PhD student) in developing an A-level session on Darwin and also from Sarah Mason who assisted with formal learning for schools and Higher Education. Sarah's internship was funded through the UCM's Opening Doors project.

The Whipple team welcomed Lia Butler, a UCM 'Creative Apprentice' who was able to assist Lorena with new activities for the Victorian Parlour, new colouring sheets for the New Gallery and also with general education activities over the summer months. We also welcomed Anna Browne, Jessica Jenkinson, Elizabeth Pritchard and Isobel Deards for their work experience week.

Training

2nd October 2014

Making the Most of your Collection (organised by Castleacre Insurance, held at Trinity Hall, Cambridge) Claire Wallace attended this seminar. Talks included those on 'Re-Invigorating Existing Collections', 'Acquisitions, De-Accessioning and Accreditation', 'Innovative Collaborative Exhibitions' and 'How to Assess Risk Effectively'.

3th October 2014

Fire Warden and Use of Fire Extinguishers. (organised by and held at the Department of History and Philosophy of Science, Cambridge) Claire Wallace and Steven Kruse attended this course which looked at the historical context of what happens when fire marshaling goes wrong and then there was a practical training exercise in the correct use of fire extinguishers.

22nd October 2014

Emergency Planning course, National Horseracing Museum, Newmarket. Claire Wallace attended a course about Emergency Planning in Museums. This workshop was run by SHARE East of England and covered subjects such as requirements for Accreditation, training plans, emergency plans and table-top exercises.

30th October 2014

Preparing for Emergencies: Anticipation, Prevention, Protection, Reaction. (organised by University of Cambridge Museums, held at The Fitzwilliam Museum, Cambridge) Claire Wallace attended this course which was facilitated by Steve Emery, the Fire Safety Advisor for English Heritage. The course ran through the basics of emergency planning for heritage institutions and salvage plans.

12th November 2014

Children and vulnerable adults screening policy update. Lorena Bushell attended this important update about changes to the vetting and barring policy.

10th December 2014

Integrated Pest Management: Level 1. (organised by SHARE East of England, held at Ely Museum) Claire Wallace attended this course which introduced her to common pests and how to recognize insect damage.

15th-16th December 2014

First Aid at Work. (organised by St John Ambulance, held at Barton Road Training Hall, Cambridge) Claire Wallace attended this course which refreshed her First Aid knowledge through practical scenarios.

17th December 2014

Disability Awareness training. Lorena Bushell attended this session which gave her more awareness of how to make the Whipple accessible to all.

21st January 2015

Getting in the Corners: The 1st SHARE and UCM Conference on Collections Care, Hughes Hall, Cambridge. Claire Wallace attended this conference. The conference themes included: caring for archives in the museum environment, the historic building as object, hazards surveys and hazardous materials. There were also drop-in workshops on archaeological archive packing, museum archive packing and historic buildings.

25th February 2015

Integrated Pest Management: Level 2. (organised by SHARE East of England, held at the Department of Earth Sciences (Bullard Laboratories), Cambridge) Claire Wallace attended this course which looked in more depth at identifying pests in the museum environment. This was a hands-on session looking at examples of pests that had been caught in sticky traps and also some live examples of common pests.

27th February 2015

Environmental Monitoring. (organised by SHARE East of England, held at the Whipple Museum of the History of Science, Cambridge) Claire Wallace attended this course which outlined the basics of managing Relative Humidity, monitoring and controlling the environment and damage caused by light.

2nd April 2015

Bronze Arts Award. Lorena Bushell attended this course and is now a qualified Arts Award advisor. This will enable her to help 11-25 year-olds gain their Bronze Arts Award.

22nd May 2015

An introduction to safe handling of Radium items and Naturally Occurring Radioactive Materials (organised by the University of Cambridge Safety Office, held at The Polar Museum, Cambridge) Claire Wallace and Steven Kruse attended this course which looked at the environmental and safety legislation surrounding Radon and the principles of Radon protection.

28th-29th May 2015

Study visit. Lorena Bushell visited several museums in Hamburg to see how educational programmes and administration worked in other institutions. This study visit was organised by the Network of European Museums Organisations.

15th June 2015

Silver Arts Award. Lorena Bushell attended this course and is now a qualified Arts Award advisor. This will enable her to help 11-25 year-olds gain their Silver Arts Award.

14th-16th July 2015

Salvage and Emergency Planning Course. Claire Wallace and Steven Kruse took part in this course which was organized by Historic England (formerly English Heritage) and the West Midlands Fire and Rescue Service and took place at Dudley Community Fire Station. It was a vital and extremely practical course which included the safe use of ladders and managing water, a breathing apparatus walk-through, the training of salvage teams and a half-day practical exercise which mimicked a real emergency situation. One of the places on this course was funding by the UCM.

15th July 2015

Management Essentials (organised by the University of Cambridge) Josh Nall attended this course which looked at the principles of managing staff.

16th July 2015

Discover and Explore Arts Award. Lorena Bushell attended this course and is now a qualified Arts Award advisor. This will enable her to help 11-25 year-olds gain their Discover and Explore Arts Award.

23rd-24th September 2015

University Museums Group conference. Josh Nall attended this conference which was hosted by the University of Durham. The theme was 'Science and Society'

Loans

The Whipple Museum continues to receive requests from other museums for the loan of objects from its collection, evidence of how highly regarded the collection is both nationally and internationally. The Whipple contributes material to exhibitions in other institutions in order to encourage new research in and public enjoyment of its collection. Below is a list of the borrowing institutions, exhibitions held and the objects borrowed during this academic year.

Loans out

Historic Royal Palaces (Kensington Palace), London

Glorious Georges, April 2014-September 2016 (loan extension)

Wh.0195 Simple Pocket Microscope by George Lindsay, 1742

The Polar Museum, Cambridge

The Thing Is..., October 2014-December 2014

Wh.6538 Fox-Type Dip Circle, by William Wilton, English, c.1850

The Fitzwilliam Museum, Cambridge

Silent Partners: Artist and Mannequin from Function to Fetish, October 2014-January 2015

Wh.6267.8 Wax Apple Model

Wh.6267.10 Wax Apple Model

Wh.6267.11 Wax Apple Model

Wh.6267.13 Wax Apple Model

Wh.6267.15 Wax Apple Model

Wh.6267.16 Wax Apple Model

Wh.6267.23 Wax Apple Model

The Science Museum, London

Churchill's Scientists, January 2015-March 2016

Wh.6574 Piece of custom laboratory apparatus designed and used by
Andrew Huxley in muscle fibre physiological research, c.1958

Museum of Archaeology and Anthropology, Cambridge

Horace Beck, February 2015-February 2016

Wh.1633 Achromatic Compound Microscope by R & J Beck Ltd., c.1929

AHRC Cheltenham Festival Event

Talk, February 2015

HCxx Replica Astrolabe

Cambridge Science Centre

Radio Broadcast on Historical Science Experiments, February 2015

Wh.2841 Direct vision spectroscope, c.1950

Wh.2943 Table spectroscope, by Laurent, c.1875

The Fitzwilliam Museum, Cambridge

Treasured Possessions: from the Renaissance to the Enlightenment, March-September 2015

Wh.1688 Ivory Diptych Dial, by Paul Reinmann, 1608

The Senate House, Cambridge

Guild of Benefactors Event, March 2015

Wh.6161 Hewlett Packard HP-41C Electronic Pocket Calculator, c.1979

Wh.4529.052 Texas Instruments TI-51-III Electronic Pocket Calculator, c.1977

Wh.6053 Sinclair Cambridge Programmable Electronic Pocket Calculator, 1977

HC23 Simple Microscope (Botanical), 19th century

HCxx Box of 13 Glass Microscope Slides

HCxx Replica Astrolabe

Nene Valley Astronomy Society

Talk, September 2015

HCxx Replica Astrolabe

Whipple Library, Cambridge

Colour Science exhibition, September 2015

T338 Tintometer Slides

New acquisitions

- E525 Papier-mâché and painted plaster anatomical model of a frog by Deyrolle
- E527 “Isotope Calculator”, circular calculator dial, designed by The Isotope Division, A.E.R.E., Harwell, with accompanying instruction leaflet, 1949 (possibly from the papers of John Cockcroft)
- E528 Botanist’s field set in fitted leather bag
Sykes hydrometer by P. Ross
19th century Islamic astrolabic quadrant
- E529 Broadsheet advertisement for ‘transparent orrery’, including astronomical lecture by Mr. Lloyd, London, 1820
- E530 Rare study for the advertising of Auzoux’s anatomical model of the horse, by Louis Auzoux, 1860
Rare first academic report on Auzoux’s comparative anatomy clastic pieces and horse, by Louis Auzoux (?), 1844
- E531 Sinclair Cambridge pocket electronic calculator, built from a kit, 1973
- E532 Italian inflatable globe, “Pneus globe”, by Societa Italiana Globi Pneumatia, c.1900
- E533 Folding card globe entitled “Stokes’s Capital Mnemonical Globe”, published by Houlston & Sons, c.1868
- E534 9 modern reprints of historic medical/anatomical diagrams (for Handling Collection)
- E535 “Working models for engineering students” in card, with moveable parts, by Thomas & T. Gilbert Jones, Manchester, c.1895
- E536 Tennis ball used to explore Venn diagrams for four or more sets, with lines marked on it, by Anthony Edwards
- E537 Papier-mâché didactic model of a human hand, by Auzoux, French, 1876
- E538 Four Cambridge Instrument Company instruction manuals
- E539 Mid-19th century pocket compass diptych dial, by Smith, Beck & Beck
- E540 Large selection of sales and trade literature relating to Joseph W. Lovibond and his invention ‘The Lovibond Tintometer;
- E541 Four chronometers set to keep sidereal time, in fitted wooden carrying tray, as used at the Cambridge Observatory in the 19th and 20th centuries
- E542 31 objects, 16 books and 3 pieces of trade literature from the estate of the late Michael Clark
- E543 The Charles Elcock Archive of Microscope Slides – c.780 microscope slides in 2 custom cases, four small boxes of slides and preparation equipment, plus book and various ephemera which formed the working collection of Charles Elcock
- Wh.6574 Piece of custom laboratory apparatus by Andrew Huxley for muscle fibre physiology research, English, c.1958
- Wh.6575 Reflecting galvanometer by Cambridge Instrument Company, English, c.1964
- Wh.6576 Portable potentiometer, Type 44228, by Cambridge Instrument Company, English, c.1964
- Wh.6577 Set of three Warburg Manometers with three flasks, by Exelo, English, late 20th century
- Wh.6578 Pre-production model of ‘The Oxford Astrolabe’ designed by C. F. Jenkin, English, 1925
- Wh.6579 Mezzotint of ‘Dr Joseph Dalton Hooker F.R.S. in the Rhododendron Region of the

	Himalayas' by William Walker after Frank Stone, English, c.1854
Wh.6580	Portable potentiometer by Pye, English, mid-20 th century
Wh.6581	Precision chemical balance, Model R20, by Oertling, English, c.1970
Wh.6582	Well-type manometer with microscope, custom made (?), English, late 20 th century

Individuals

Annual Reports of Members of the Department

Anna Alexandrova

This busy year started with my service on the Program Committee of the Philosophy of Science Association Biennial Meeting in Chicago in November 2014 for which I reviewed some fifty submitted articles. I am also thankful to St John's College for awarding me the Emanuel Miller essay prize for my paper "Can the science of well-being be objective?" Steve John and I are thrilled to start *Limits of Numerical* a new three-year project on quantification in healthcare at CRASSH for which we spent the year lining up funding and personnel. Paper 10, which I managed, now features both cognitive and social sciences thanks to the new lectures by Marta Halina, Andreas Sommer and Richard Staley. I completed a four-year stint as a Director of Studies in Philosophy and a two-year stint at an inspector of accounts at King's College. Effective October 1st 2015 I have been promoted to Senior Lecturer.



Publications

Articles in journals

Alexandrova, Anna (2015). "Well-being and Philosophy of Science." *Philosophy Compass* 10 (3): 219-231.

Chapters in books

Alexandrova Anna. (2015) "The Science of Well-being" in *Routledge Handbook of Philosophy of Well-being*, ed. Guy Fletcher, Routledge/Taylor & Francis Group.

Northcott Robert and Anna Alexandrova (2015) "The Prisoner's Dilemma Does not Explain Much" in *Prisoner's Dilemma*, ed. Martin Peterson, Cambridge, CUP.

Lectures, seminars and conferences

November 2014

"Is Construct Validity Valid?" (with Dan Haybron), Philosophy of Science Association Biennial Meeting, Chicago.

February 2015

"When Measurement is Theory-Avoidant" CamPos seminar, Cambridge

May 2015

"Psychometrics and Theory Avoidance" CHESS Seminar, Durham University.

June 2015

"Comments on Dan Hausman's *Valuing Health*" UCL Hausman workshop.

August 2015

"Is Well-being Measurable?" Congress in Logic, Methodology and Philosophy of Science, Helsinki

Public Engagement and Impact

"History and Philosophy of Science at Cambridge", Open Day talk, July 2015

Robert G.W. Anderson

Chairman, Society for the History of Alchemy and Chemistry

Vice-Chair, Chemical Heritage Foundation (Philadelphia)

Publications

Books

Edited works

Robert G W Anderson ed, *Cradle of Chemistry: The Early Years of Chemistry at the University of Edinburgh* (Edinburgh: John Donald, 2015)

Chapters in books

Robert G W Anderson, "Dr Black goes Down to Town: the 1788 Tour to Ireland and England," in *William Hunter's World: the Art and Science of Eighteenth-Century Collecting* ed. E Geoffrey Hancock and Mungo Campbell (Farnham: Ashgate, 2015)

Robert G W Anderson, "Thomas Charles Hope and the Limiting Legacy of Joseph Black," in Robert G W Anderson, *Cradle of Chemistry* (see above)

Robert G W Anderson, "Scientific Scotland" in *Science History: A Traveler's Guide*, ed. Mary Virginia Orna (Washington DC: American Chemical Society, 2015)

Lectures, seminars and conferences

November 2014

Robert G W Anderson, 'Chemistry in Glasgow, Frederick Soddy and Isotopes' (University of Glasgow, presentation of plaque by American Chemical Society to commemorate Soddy's invention of the term 'Isotope', 20 November 2014)

December 2014

Robert G W Anderson, 'Relations between Industry and Academe: the Case of Dyeing in Scotland' (RcCreate Workshop: Laboratories and Materials Experimentation. National Museum of Scotland, 12 December 2014)

June 2015

Contributor to 'Situating Chemistry' Workshop, Haarlem, The Netherlands, 25-27 June 2015

Scott Anthony

I am an affiliate fellow who is currently completing a series of articles about the visualisation of economic knowledge in the twentieth century, research that I began while working as a Research Associate at HPS between 2012 and 2014. Drawing on my experience as co-convenor of the Public History programme at Cambridge and the IHR, London, I am also currently in the process of establishing a public history programme – the first in the region – at Nanyang Technological University, Singapore.

Publications

Chapters in books

S. Anthony, "From Roy Jenkins downwards: the historian/journalist and journalist/historian in contemporary Britain" in Pedro Ramos Pinto & Bertrand Taithe (Eds.) *The Impact of History? Histories at the Beginning of the 21st Century* (Routledge, 2015)

Reviews

S. Anthony 'The Grierson Effect: Tracing Documentary's International Movement' review of *The Grierson Effect: Tracing Documentary's International Movement* edited by Z. Druick and D Williams in *Sight & Sound: The International Film Magazine*, Vol. 25, Issue 3, March 2015

Lectures, seminars and conferences

April 2015

Chaired 'Modernity in Different Media' panel at 'Being Modern: Science and Culture in the early 20th century' conference at the Institute of Historical Research, London, April 22-24, 2015

June 2015

S. Anthony, "'Of the scholars, nothing is to be expected, I am afraid.' Adventures in industrial film" (paper presented at the 'What is cinema history?' conference, Glasgow, June 22–24, 2015)

Public Engagement and Impact

Wrote 'Banknote Hacking', *LRB* blog, 29 June 2015, <http://www.lrb.co.uk/blog/2015/06/29/scott-anthony/banknote-hacking/>

Alexi Baker

Alexi Baker was a post-doc on the AHRC-funded project ‘The Board of Longitude 1714–1828: Science, Innovation and Empire in the Georgian World’ with Professor Simon Schaffer in 2010-2013, and then became an HPS Affiliate. She was a Mellon/Newton Interdisciplinary Research Fellow at CRASSH in 2013-2015. In addition to her ongoing work on the trade in and diverse uses of early modern instruments, Dr Baker is editing and half-authoring the Board of Longitude project book for Palgrave Macmillan and has continued to contribute to the University Library’s digitisation of related sources. Dr Baker single-handedly conceived of and organised the international interdisciplinary conference *Objects in Motion: Material Culture in Transition* (<https://objects2015.wordpress.com/about/>) at CRASSH on June 18-20, 2015.

Publications

Alexi Baker, Entries for the *Oxford Dictionary of National Biography* on the unique female longitude projector Jane Squire (bap. 1686, d. 1743) and on the London optician/toyman George Willdey (bap. 1676, d. 1737), published online on September 17, 2015.

Volume summary for MS Adams 7/74/1 - Jane Squire's *Proposal to Determine Longitude* - for the University of Cambridge Digital Library: <http://cudl.lib.cam.ac.uk/view/PR-ADAMS-00007-00074-00001/1>

Reviews

Alexi Baker, review of *Scholars in Action: The Practice of Knowledge and the Figure of the Savant in the 18th Century* by Andre Holenstein et al, *British Journal for the History of Science* 48 (1), March 2015, pp. 178-180.

Lectures, seminars and conferences

October 2014

Alexi Baker, “Environment and (non) standardization in early modern expeditionary time” (paper presented at a workshop on the history of time accuracy in physics and astronomy at the Paris Observatory on October 6-7, 2014).

Alexi Baker, “Scientific instruments before science” (paper presented at the Sciences Lunchtime Seminar of Darwin College Cambridge on October 30, 2014).

November 2014

“Technology, Tools, and Toys of Early Modern Science” (paper presented to the Humanities Society of Wolfson College Cambridge on November 11, 2014).

December 2014

Alexi Baker, “Jane Squire's early modern adventures: ‘I see not why I should confine myself to Needles, Cards, and Dice’” (paper presented at the Cabinet of Natural History at Cambridge HPS on December 1, 2014).

February 2015

Alexi Baker, “Instruments of early modern London: urban manufacture, transnational use, and modern (mis) representation” (paper presented at the Séminaire penser/classer les collections techniques at université Paris Diderot-Paris 7 on February 13, 2015).

March 2015

Alexi Baker, "Public benefit, private gain and conflicting cultures in the search for longitude" (paper presented at the seminar "Innovation, Utility, and Expertise in Early Modern European Science" at King's College London on March 24, 2015).

July 2015

Alexi Baker, "Scientific instruments within the socio-economic geographies of early modern London" (paper presented at the International Conference of Historical Geographers in London on July 6, 2015).

September 2015

Alexi Baker, "Brawling in the streets and broadsheets: Instrument trade wars in early modern London" (paper presented at the XXXIV Symposium of the Scientific Instrument Commission in Turin, Italy, on September 8, 2015).

Public Engagement and Impact

"The Lone Lady of the Longitude" (public talk given at the National Maritime Museum in Greenwich on October 16, 2014).

"Tech, Tools, and Toys of Science before 1800" (object talk given at the Whipple Museum for the Cambridge Festival of Ideas on November 1, 2014).

"The lady of the longitude", *Cambridge University website*, November 30, 2014:

<http://www.cam.ac.uk/research/features/the-lady-of-the-longitude>

"Jane Squire, an outspoken early modern woman", *Board of Longitude project blog*, March 28, 2015:

<http://blogs.rmg.co.uk/longitude/2015/03/28/jane-squire-outspoken-early-modern-woman/>

Discussion of the unique female longitude-seeker Jane Squire on the BBC radio show *Woman's Hour*, originally aired on May 12, 2015.

"Setting 'Objects' in Motion", *Objects in Motion blog*, June 6, 2015:

<https://objects2015.wordpress.com/2015/06/06/setting-objects-in-motion/>

"Art, drama and 'Objects in Motion'", *Objects in Motion blog*, June 8, 2015:

<https://objects2015.wordpress.com/2015/06/08/art-drama-and-objects-in-motion/>

'The (extra) ordinary, the personal and the universal in material culture', *Objects in Motion blog*, June 11, 2015:

https://www.academia.edu/13255173/The_extra_ordinary_the_personal_and_the_universal_in_material_culture

"Convening 'Objects in Motion: Material Culture in Transition'", *CRASSH blog*, June 15, 2015:

<http://www.crassh.cam.ac.uk/blog/post/convening-objects-in-motion-material-culture-in-transition>

Discussion of historical timekeeping with the *Naked Scientists* for BBC radio, originally broadcast on June 28, 2015.

Debby Banham

Debby has had another busy year, but an exciting one, starting with the publication of *Anglo-Saxon Farms and Farming*, her long-term project with Dr Ros Faith of Oxford. The year involved a good deal of extra teaching, including lecturing in Palaeography and Anglo-Saxon History in the Department of Anglo-Saxon, Norse and Celtic. She had another good year as tutor to the Latin Therapy group, this year run by Tillmann Taape and Natalie Lawrence, with more bizarre animals, excellent home baking, a trip to St John's College to visit the archives, now run by ex-therapist Tracy Deakin, and the first Latin Therapy baby!

Publications

Books

Debby Banham and Rosamond Faith, *Anglo-Saxon Farms and Farming* (Oxford: Oxford University Press, 2014)

Lectures, seminars and conferences

February 2015

Debby Banham, "The earliest English gardens: horticulture in Anglo-Saxon England" (paper presented to the Manchester Medieval Society, University of Manchester, February 5, 2015)

March 2015

Debby Banham, "Sex and gender in Old English medical texts: the male patient, assumed and explicit" (paper presented at the Manhood in Anglo-Saxon England conference, Manchester Centre for Anglo-Saxon Studies, University of Manchester, March 7–8, 2015)

May 2015

Debby Banham, "The consumption of dairy foods in Anglo-Saxon England" (paper presented to the Medieval Diet Group, University of Oxford, May 23, 2015)

August 2015

Debby Banham, "*Ymbhwyrft*: the agricultural cycle in Anglo-Saxon England" (paper presented at the International Society of Anglo-Saxonists biennial conference, University of Glasgow, August 3–7, 2015)

Public Engagement and Impact

October 2014

A walk round early medieval Cambridge, Festival of Ideas, Department of Anglo-Saxon, Norse and Celtic, University of Cambridge, October 25 2014

March 2015

"Making a living in Anglo-Saxon England", talk at "The ASNaC roadshow", widening participation event at St Dominic's School, Belfast, March 19 2015

June 2015

“Eating and drinking in Anglo-Saxon England”, talk, with bread and beer, at the Festival of Ideas, University of York, June 20 2015

Robert Bud

Robert Bud is Research Keeper at the Science Museum in London. On 1 September 2014 he began work as an AHRC Leadership Fellow investigating the concept of applied science in early 20th century Britain. This succeeded an earlier fellowship dealing with the use of the concept in the 19th century. This fellowship supported the organisation of a conference entitled “Being Modern: Science and Culture in the early 20th century” held at the Institute of Historical Research in April 2015. He was also part of an international consortium of scholars which successfully submitted a bid to EU for a Europe-wide study of the history of nuclear power across and the place of public engagement with the nuclear.

Publications

Articles in journals

Scott H. Podolsky, Robert Bud, Christoph Gradmann, Bård Hobaek, Claas Kirchhelle, Tore Mitvedt, María Jesús Santesmases, Ulrike Thoms, Dag Berild and Anne Kveim Lie, “History Teaches Us That Confronting Antibiotic Resistance Requires Stronger Global Collective Action,” *The Journal of Law, Medicine & Ethics*, Special Issue: Symposium: Antibiotic Resistance, 43 (2015): 27–32

Reviews

Robert Bud, review of: *Biologics: A History of Agents Made from Living Organisms in the Twentieth Century* by Alexander von Schwerin; Heiko Stoff; Bettina Wahrig, *Isis*, 105 (2014): 834-835

Robert Bud, review of: *Ways of Regulating Drugs in the Nineteenth and Twentieth Centuries* edited by Jean-Paul Gaudillière and Volker Hess. *Ambix* 62(2015): 299-300

Lectures, seminars and conferences

October 2014

Robert Bud, “Between public and private spheres: applied science as a historiographic challenge” (paper presented at Meta-reflections on Science, Technology, and Innovation”, conference of CASTI [Conceptual approaches to Science, technology and innovation], University of Agder, Kristiansand, 16 October 2014

Robert Bud. Chair, Artefacts conference on Envisioning Exhibits: Science, Technology, and Museums in the Anthropocene, Deutsches Museum, 26-28 October

November 2014

Robert Bud, Panel member, “Confluences of Interdisciplinarity”, Annual Meeting of the Modernist Studies Association, Pittsburgh, 6-9 November 2014

Robert Bud, Commentator, on “Industrial Research: Past and Future”, Boerhaave Museum, Leiden, 27-28 November

April 2015

Robert Bud, “Modernity and the Ambivalent Significance of Applied Science: Motors, Wireless, Telephones and Poison Gas” (paper presented at the conference, “Being Modern: Science and Culture in the Early 20th century”, IHR, 22-24 April)

May 2015

Robert Bud, Commentator on “Les mises en scène des sciences et leurs enjeux (XIXe-XXIe siècle)”, Institut historique allemande, Paris, 5-7 May

June 2015

Robert Bud, “Making Science Concepts in the Media: The British story of the early 1930s” (paper presented at the “Stories about science”, conference, University of Manchester, 4-5 June, 2015)

Robert Bud, “Scientism as Ideology” (paper presented at CASTI workshop, “How Can Conceptual Approaches Contribute to Science and Technology Studies?”, Humboldt University, Berlin, 15-16 June 2015)

July 2015

Robert Bud, “‘Mean streets and squalid districts’: Oliver Lodge and his contemporaries on science and progress” (paper presented at “Oliver Lodge: Science, Progress and the Public”, Science Museum, 8 July 2015)

September 2015

Robert Bud, Chair, “The Emergence of the Scientific Heritage and the Rhetoric of National Science,” (session of “Scientific Heritage at World Exhibitions and Beyond. The Long XXth Century”, annual meeting of the Artefacts Consortium, Milan, 20-22 September 2015).

Public Engagement and Impact

Robert Bud, panel member and presenter, “Antibiotics Apocalypse” Edinburgh Science Festival, 8 April 2015

Robert Bud also appeared on the Victoria Derbyshire show, BBC2, and spoke on Radio 5live and on Radio Tees on 18 August 2015 about antibiotic resistance in historical context on the occasion of publication of new NIHC guidance.

Sarah Bull

I joined the Department of History and Philosophy of Science, University of Cambridge, in May 1, 2015, as a Wellcome Trust Research Fellow. In addition to being awarded a Wellcome Trust Research Fellowship in Medical Humanities during the 2014/2015 academic year. I was awarded a Postdoctoral Fellowship from the Social Sciences and Humanities Research Council of Canada in February 2015, which I declined in order to accept the Wellcome award.

In addition to the contributions listed below, I currently have a book review in press (Sarah Bull, rev. of *The Pleasure’s All Mine: A History of Perverse Sex* by Julie Peakman (London: Reaktion, 2014), *Journal of Social History* 49, no. 1 [2015]), and have two articles under review in the *Bulletin of the History of Medicine* (“Managing the ‘Obscene M.D.’: Medical Publishing and the Changing Definition of Obscenity in Mid-Victorian England,” 10, 000 words) and *Book History* (“Reading, Writing, and Publishing a New Canon: The Secret Museum, c. 1860 — c. 1900,” 11, 500 words).

Publications

Articles in journals

Sarah Bull, “Digital Archives and the History of Pornography,” *Porn Studies* 1, no. 4 (2014): 402-405.

Lectures, seminars and conferences

November 2014

Sarah Bull, “Classifying Obscenity by Publisher: Pornographers, Quack Medical Firms, and Borderline Publication in Mid-Victorian Britain” (paper presented at the annual meeting of the North American Victorian Studies Association, London, Ontario, November 13-15, 2014)

May 2015

Sarah Bull, “Investigating Medical Periodicals in the Medical Publishers Project” (paper presented at a workshop entitled “Working With Nineteenth-Century Medical and Health Periodicals” at St Anne's College, University of Oxford, Oxford, May 30, 2015)

Public Engagement and Impact

Blog post on “The Leftovers; or, Anecdote and the Serious Academic,” *The Floating Academy: A Victorian Studies Blog*, March 10, 2015, <https://floatingacademy.wordpress.com/2015/03/10/the-leftovers-or-anecdote-and-the-serious-academic/>

Advisor for *Hard Core: A Century and a Half of Obscene Imagery*, exhibition at the Museum of Sex, New York, NY, USA, June 25 — December 31, 2015. Co-wrote (with Prof. Colette Colligan) three hundred words of text included in the exhibition and provided advice to curators on contextualizing historical pornographic materials.

Hasok Chang

In addition to a few academic papers, I published a popular book entitled *Science Meets Philosophy*, in Korean, based on the series of television lectures broadcast in the spring of 2014; both the TV series and the book have attracted considerable public attention. Various speaking engagements took me to Israel, Korea, France, Denmark, Finland, the United States, as well as various locations in the UK.

In professional service, I completed a 4-year stint as President and Vice-President of the British Society for the History of Science, and my decade-long service for the Society for Philosophy of Science in Practice (which held its 5th biennial conference in June 2015). I have continued my work for the Integrated HPS group, and was elected as the Chair of its Executive Committee starting the summer of 2015; I also continue my role in the UK Integrated HPS Network. I have also continued on the governing Council of the Society for History of Alchemy and Chemistry, and the Nominating Committee for the Philosophy of Science Association.

Within Cambridge I continued as a joint leader of the Cambridge Philosophy of Science (CamPoS) network, including the weekly seminar series. My collaborative agreement with the Department of Chemistry continues. Within HPS I have continued to lead the Coffee with Scientists reading group, the Cambridge branch of AD

HOC (history of chemistry), and the Philosophy and History of Physics reading group. The last group focused on the theme of measurement this year, on which we hosted a successful international conference in July 2015.

In the administration of the Department, I served as Part II Manager, MPhil/Part III Senior Examiner, Dignity Officer (along with Liba Taub), Paper 8 Manager, and Paper 6 Co-manager (with Marion Godman). I also continued my service as the external DoS for HPS at St Catharine's College. I delivered a full load of lectures and supervisions.

Publications

Books

Hasok Chang, *과학, 철학을 만나다 [Science Meets Philosophy]*. Seoul: EBS, 2014.

Articles in journals

Ann-Sophie Barwich and Hasok Chang, "Sensory Measurements: Coordination and Standardization", *Biological Theory* (thematic issue on "Quality & Quantity: Limits of Quantification in the Sciences") 10:3 (2015), 200–211. DOI 10.1007/s13752-015-0222-2.

Hasok Chang, "The Chemical Revolution Revisited" [response to Martin Kusch and Ursula Klein], *Studies in History and Philosophy of Science* A49 (2015), 91–98.

Chapters in books

Hasok Chang, "Reductionism and the Relation between Chemistry and Physics", in Theodore Arabatzis, Jürgen Renn and Ana Simões, eds., *Relocating the History of Science: Essays in Honor of Kostas Gavroglu* (Dordrecht: Springer, 2015), 193–209.

Minwoo Seo and Hasok Chang, "Context of Discovery and Context of Justification", in Richard Gunstone, ed., *Encyclopedia of Science Education* (Dordrecht: Springer, 2015), 229–232.

Lectures, seminars and conferences

November 2014

"A Case for Pluralism in Science", colloquium at the Dept. of Philosophy, University of Rochester (4 Nov.)

"If You Can Spray Phlogiston, Is It Real?" FoHCS (Forum for the History of the Chemical Sciences)

Distinguished Lecture, HSS, Chicago, 6 Nov.

(with Veronica Vieland), "Replication, Measurement, and Biological Evidence", PSA, Chicago, 8 Nov.

"Is Water H₂O?" Clare Hall Colloquium, Clare Hall, Cambridge, 18 Nov.

December 2014

"Reductionism and the Relation between Physics and Chemistry", Bar-Hillel Colloquium, at the Cohn Institute, Tel Aviv University, 8 Dec.

"Reductionism and the Relation between Physics and Chemistry", Bar-Hillel Colloquium (Lecture in Memory of Mara Beller), The Van Leer Institute, Jerusalem, 10 Dec.

January 2015

"What Is The History of Science For?" keynote talk for the 2015 BSHS Postgraduate Conference, at UCL, 8 Jan.

February 2015

“Does the History and Philosophy of Science Have Any Uses for Scientists?” Fitzwilliam College Natural Sciences Society, 18 Feb.

March 2015

“Conflicting Theories of the Battery in the Early 19th Century”, History and Philosophy of Physics Seminar, SPHERE, at Paris–Diderot, 3 Mar.

“선입견의 위험과 위력” [The Dangers and Powers of Presuppositions], 삼성 사장단회의 [Samsung CEO Seminar], Seoul, Korea, 25 Mar.

April 2015

“과학과 문화의 다원성과 인본주의” [Pluralism and Humanism in Science and Culture],

국립아시아문화전당 비전포럼 [The “Vision Forum” of the Asian Cultural Center], Kwangju (by videolink), 3 Apr.

“Is Phlogiston Real? A Case for Pluralism in Science”, Center for Science and Society, Columbia University, 6 Apr.

“Ignorance of Electricity”, presentation to Stuart Firestein’s Ignorance class, Columbia University, 8 Apr.

“Pluralism and the Progress of Science”, Boston Colloquium in Philosophy of Science, Boston University, 10 Apr.

“If You Can Spray Phlogiston, Is It Real? Evidence and Integrated HPS”, 10th Annual UK Integrated HPS Workshop, Durham University, 16 Apr.

May 2015

“How Do You Know That Water Is H₂O?” Student–Fellow Interaction Event (Short Talk), Clare Hall, Cambridge, 7 May.

“Reductionism and the Relationship between Chemistry and Physics”, at “Relocating the History of Science”, conference in honor of Kostas Gavroglu, University of Athens, 15 May.

June 2015

“If You Can Spray Phlogiston, Is It Real?” for the “Laws in the Physical and Life Sciences” series, at the Royal Institution, 1 Jun.

“Representation and Correspondence as Dead Metaphors”, SPSP, Aarhus, 25 Jun.

August 2015

“Prospects for an Integrated History and Philosophy of Composition”, invited lecturer at the Congress of Logic, Methodology and Philosophy of Science, Helsinki, 8 Aug.

September 2015

“Epistemic Iteration and Natural Kinds: Realism and Pluralism”, Philosophical Issues in Psychiatry IV: Psychiatric Nosology, University of Copenhagen, 10 Sep.

Public Engagement and Impact

See book listed above.

“Why the History of Science Matters”, Twyford High School, Twyford Accelerated Programme, 25 Feb.

Gloria Clifton

I am an affiliated research scholar of the Department of History and Philosophy of Science of the University Cambridge, as well as being an emerita curator of the National Maritime Museum, Royal Museums Greenwich, London SE10 9NF.

I am a Member of Council for the Hakluyt Society and one of three series editors for the volumes published by the Society, detailed below.

I am also a Fellow of the Society of Antiquaries and an honorary member of the Scientific Instrument

Publications

Edited works

Kenneth Morgan, ed., *Australia Circumnavigated: The Voyage of Matthew Flinders in HMS Investigator, 1801-1803*, 2 vols, series ed., Gloria Clifton, Hakluyt Society, 3rd series, vols 28 and 29. Farnham, Surrey, and Burlington, VT: Ashgate Publishing Company, 2015.

Chapters in books

Gloria Clifton, "Paris, London and St Petersburg: The Role of Scientific Instruments and Their Makers in European Scientific Networks," in *Rod and Madge Webster: A legacy of Collections, Philanthropy, and Friendship*, ed. Marvin Bolt, Lauren Boegen, Bruce Stephenson, and Teasel Muir-Harmony. Chicago: Adler Planetarium, 2014.

Lectures, seminars and conferences

March 2015

Gloria Clifton, "New Light on Chronometer Makers and the Instrument Trades" (lecture for the Antiquarian Horological Society, delivered at the Royal Astronomical Society, London, March 26, 2015)

September 2015

Gloria Clifton, "Instrument Makers in Conflict in 19th-Century England" (paper delivered at the XXXIV Scientific Instrument Symposium, Turin, Italy, September 7-11, 2015)

Public Engagement and Impact

The lecture for the Antiquarian Horological Society in March 2015 was a public lecture, with non-members present.

Blog comment "Matthew Flinders and the Circumnavigation of Australia" The Hakluyt Society Blog, August 24, 2015, <https://hakluytsociety.wordpress.com/2015/08/24/matthew-flinders-and-the-circumnavigation-of-australia-1801-1803/>

I have also acted as a volunteer at the National Maritime Museum, including answering public enquiries.

Helen Anne Curry

This year, my third at Cambridge HPS, I served as the MPhil manager while continuing in my roles as representative on the NST management committee and manager of HPS Part II Paper 11. Outside the department, I sit on the Cambridge Forum for Sustainability and Environment, a committee intended to further cross-disciplinary discussion of environmental issues within the university, and also on the Archives Committee at Churchill College, which oversees the collections and management of the Churchill Archives Center. I was a faculty member at the first-ever Munich Spring School in the History of Science in March 2015, and I organized and ran a two-day international symposium in New Haven, Connecticut in May 2015 to celebrate the retirement from Yale of the historian of American science and technology Daniel J. Kevles.

Publications

Chapters in books

Helen Anne Curry, "Speeding Up Evolution: X-Rays and Plant Breeding in the United States, 1925-1935," in Sharon Kingsland and Denise Phillips, eds., *New Perspectives on the History of Life Sciences and Agriculture* (Dordrecht: Springer Verlag, 2015), 459–478.

Reviews

Helen Anne Curry, review of *Pure and Modern Milk: An Environmental History Since 1900*, by Kendra Howard-Smith (Oxford: Oxford University Press, 2013) in *H-Environment Roundtable Reviews* 5, no. 4 (20 July 2015). <https://networks.h-net.org/system/files/contributed-files/env-roundtable-5-4.pdf>.

Helen Anne Curry, "The Living Element," review of *Radium and the Secret of Life*, Luis A. Campos (Chicago: University of Chicago Press) in *Science* 348, no. 6242 (26 June 2015): 1435.

Lectures, seminars and conferences

October 2014

"Hybrid Corn and Endangered Maize: Agricultural Modernization and the Conservation of Genetic Diversity in Crop Plants, 1935–1970" (paper presented at the London Group of Historical Geographers Seminar, Institute of Historical Research, London, 14 October 2014)

November 2014

"Endangered Maize: Agricultural Modernization and Genetic Conservation, 1935–1977" (paper presented at the History of Science Society Meeting, Chicago, Illinois, 6–9 November, 2014)

December 2014

"Tinkering: Historical Perspectives on Do-It-Yourself Biology" (paper presented at the workshop, "What Can Do-It-Yourself Biology Do?" La Pailasse, Paris, 13 December 2014)

January 2015

"Biological Innovation in the Atomic Age: Plant Breeding with Nuclear Technologies, 1945-1965," (paper presented at the Department of History, King's College London, 21 January 2015)

May 2015

"Breeding Uniformity and Banking Diversity: The Genescapes of Modern Industrial Agriculture" (paper presented at the conference "Manufacturing Landscapes: Nature and Technology in Environmental History," Renmin University, Beijing, China, 28–31 May 2015)

Soraya de Chadarevian

Soraya de Chadarevian has received a two-year NSF Scholars Award, starting in August 2015, for her project Heredity under the Microscope: A History of Human Chromosomes.

Publications

Articles in journals

Soraya de Chadarevian, "Monod as Founder of a New Discipline: Local and International Contexts," *Comptes rendus - Biologies* (2015): 419-423.

Soraya de Chadarevian, "Chromosome Photography and the Human Karyotype," *Historical Studies in the Natural Sciences* 45 (2015): 115-146.

Chapters in books

Soraya de Chadarevian, "Molecular Biology," in *The Oxford Encyclopedia of American Scientific, Medical, and Technological History* (New York: Oxford University Press), 2014.

Soraya de Chadarevian, "Laboratory of Molecular Biology (LMB)," *eLS*, 1-3

Reviews

Soraya de Chadarevian, review of *The PKU Paradox: A Short History of a Genetic Disease*, by Diane B. Paul and Jeffrey P. Brosco, *Isis*, 105 (2014), 872.

Lectures, seminars and conferences

November 2014

Soraya de Chadarevian and Julia Kursell, "Methods and Concepts in the Loop of Exchange: Historians Investigating Life and Life Scientists Testing History (paper presented at the session The History of the Humanities – a Challenge to the History of Science? History of Science Society Meeting, Chicago).

Soraya de Chadarevian, "The Last Words" (final commentary at Alfred Russel Wallace Centennial Celebrations, UCLA)

March 2015

Soraya de Chadarevian, "A Historian of Science's Perspective on Genetic History (paper presented at the workshop Integrating Genomics and Human History: Challenges and Opportunities, Institute for Advanced Studies, Princeton)

April 2015

Soraya de Chadarevian, “Heredity and the Study of Human Populations: Surveys and Registries as Tool for Genetic Control, c. 1960” (paper presented at the seminar series *Fabriquer le vivant?* Centre Koyré, CNRS/EHESS, Collège de France, site Ulm, Paris)

Soraya de Chadarevian, Commentator for session “Medicine in Context: Biomedical Body and Knowledge Production” (Thinking Gender Conference, UCLA Center for the Study of Women)

April/ May 2015

Soraya de Chadarevian, “From Molecular Biology to the Human Genome Project” (paper presented at the workshop *Capturing the History of Genomics*, NIH/NHGRI, Rockville, MD)

Patricia Fara

I have been elected as the next President of the British Society for the History of Science, and I am now on the Editorial Board of *Mètode*.

Publications

Articles in journals

Patricia Fara, “Isaac Newton shows the light,” *Philosophical Transactions of the Royal Society (Series A)*, 373 (2015): 1

Patricia Fara, “Women, science and suffrage in World War I,” *Notes and Records of the Royal Society* 69 (2015): 11

Patricia Fara, “Under Newton’s Apple Tree,” *Manchester Memoirs* 152 (2013-14): 61

Patricia Fara, “Qué es la ciencia? Confusiones de una historiadora,” *Mètode* 84 (2014.15): 45

Reviews

Patricia Fara, review of *To Explain the World: The Discovery of Modern Science*, by Steven Weinberg, *Literary Review*, April 2015

Patricia Fara, review of *The Weather Experiment: The pioneers who sought to see the future*, by Peter Moore, *Literary Review* June 2015

Lectures, seminars and conferences

December 2014

Patricia Fara, “Science and Suffrage,” (lecture at Warwick University Medical School, December 2014)

March 2015

Patricia Fara, “Fighting for the Vote” (annual H G Wells lecture at the University of Kent, March 2015)

April 2015

Patricia Fara, “Erasmus Darwin: Poet of Progress” (paper presented at a seminar at the University of Uppsala, April 2015)

Patricia Fara, “The trials and Triangulations of Erasmus Darwin” (key note address at the Science & Literature conference, Liverpool, April 2015)

Public Engagement and Impact

Media:

Contributor to TV programme on Joseph Banks (Pilot Productions (Australia)

Contributor to *In our Time* (Radio 4) on Marie Curie

Contributor to *Today* (Radio 4) on the Darwin family

Contributor to *Charisma* series (Radio 4) on Franz Mesmer

Contributor to BBC World Programme on Marie Curie

Filmed web interview for the Royal Society on Isaac Newton

Filmed web interview for the Royal Society on women in science

Web interview May 2015 <http://www.nassrgrads.com/interview-dr-patricia-fara/> on Scientific Romantics

Public Talks:

“Newton & Newtonianism”: Astronomical Society at Hampstead

“Newton & Newtonianism”: Astronomical Society at Papworth

“Newton & Newtonianism”: Astronomical Society at Ely

“Newton & Newtonianism”: talk to Oxford University Science Society

“Newton’s significance”: talk at Cambridge Science Festival

“Robert Hooke’s *Micrographia*”: talk to Clare College Alumni

“Women in Science”: panel discussion at the Cambridge Union

“Women in Science”: panel discussion at Clare College

“Women in Science”: panel discussion at Pembroke College

John Forrester

John Forrester was on research leave in 2014-15. In January 2015, he stood down after 9 years as Editor of *Psychoanalysis and History*.

Publications

Reviews

John Forrester, ‘Adam Phillips and the making of a psychoanalyst’ *Psychoanalysis and History* 17(1) 2015: 107-119

Lectures, seminars and conferences

September 2014

‘1919: The beginnings of psychotherapy in Cambridge’. Paper delivered to Annual Meeting, UK Functional Neurological Symptoms Group (UKFNS), Pembroke College, Cambridge, 26th September 2014

October 2014

‘The Great War and Psychoanalysis in the History of Trauma’ Lecture delivered to Conference, 100 Years of Psychotherapy and Research on Post-Traumatic Disorders in Krakow, Collegium Nowodworskiego, Jagellonian University, Krakow, 24th October 2014

‘Comment and Final Discussion’ Conference, Books Making Us Crazy? Questioning the Psychiatric Canon from Pinel to DSM 5. Livres qui rendent fou? Interroger le canon psychiatrique de Pinel au DSM-5, École des Hautes Études en Sciences Sociales, Paris, 2nd October 2014

November 2014

“‘I could have worshiped the abased and mutilated remnant of the Temple’: A Masked Jew in Rome’ Paper given to Conference, The Roman Freud, CRASSH, Cambridge, 21st November 2014

‘The Interpretation of Dreams’ Talk on the Sidney ‘Greats’, Sidney Sussex College, Cambridge, 18th November 2014

Respondent, Peter Galison, ‘Science, Secrecy and the Private Self’ Tanner Lectures 2014, Clare Hall, Cambridge, 12-13 November 2014

Round-Table Participant, with Karl Figlio and Bob Young, ‘The Place of Psychoanalysis in the History of Science’, Conference, The Feeling of Certainty: A Conference in Recognition of the Work of Karl Figlio, University of Essex, 8th November 2014

March 2015

‘Narcissism and gender identity’ Conference, Narcissism and Melancholia: Reflections on a Century, University of Warwick, 11-12 March 2015

June 2015

‘Revisiting thinking in cases: the case of Agnes’ with ‘Commentary’ by Carlo Ginzburg, Genres in medical culture, Max-Planck Institut für Wissenschaftsgeschichte, Berlin, 26-27 June 2015

Susannah Gibson

Grants received: Authors’ Foundation and K Blundell Award, Society of Authors.

Publications

Books

Susannah Gibson, *Animal, Vegetable, Mineral? How eighteenth-century science disrupted the natural order* (Oxford: Oxford University Press, 2015)

Reviews

Gillian Beer, “Are you animal, vegetable, or mineral?” review of *Animal, Vegetable, Mineral? How eighteenth-century science disrupted the natural order*, by Susannah Gibson, *The Daily Telegraph*, July 25 2015, <http://www.telegraph.co.uk/books/what-to-read/animal-vegetable-mineral-by-gillian-beer-review/>

Peter Forbes, “The eighteenth century proves a natural habitat for ideas,” review of *Animal, Vegetable, Mineral? How eighteenth-century science disrupted the natural order*, by Susannah Gibson, *The Independent*, July 30 2015,

<http://www.independent.co.uk/arts-entertainment/books/features/nature-books-roundup-the-18th-century-proves-a-natural-habitat-for-ideas-10426865.html>

Jennifer Rampling, review of *Animal, Vegetable, Mineral? How eighteenth-century science disrupted the natural order*, by Susannah Gibson, *Nature*, July 30 2015,

<http://www.nature.com/nature/journal/v523/n7562/full/523528a.html>

Markus Werner “Aanstekelijke natuurvertelling” review of *Animal, Vegetable, Mineral? How eighteenth-century science disrupted the natural order*, by Susannah Gibson, *De Volkskrant*, August 22 2015,

<http://www.volkskrant.nl/boeken/aanstekelijke-natuurvertelling~a4125583/>

Lectures, seminars and conferences

October 2014

Susannah Gibson, “Jean Andre Peyssonnel and the coral island” (paper presented at Cabinet of Natural History, Cambridge, October 2014)

Public Engagement and Impact

Talk:

Susannah Gibson “Animal, vegetable, mineral?” Authors@Google, Google HQ London, July 7 2015

Blog:

Susannah Gibson “What is life?” OUP Blog, July 30 2015, <http://blog.oup.com/2015/07/what-is-life/>

Quiz:

Susannah Gibson, “Animal, vegetable, or mineral?” OUP Blog, August 3 2015, <http://blog.oup.com/2015/08/animal-vegetable-mineral/>

Jeremy Gray

Publications

Books

Jeremy Gray and Umberto Bottazzin (Milan) *Hidden Harmony – Geometric Fantasies: the rise of complex function theory*, Springer 2014.

Articles in journals

Jeremy Gray, Depth — A Gaussian Tradition in Mathematics, *Philosophia Mathematica* (2015) 23 (2): 177-195
doi:10.1093/philmat/nku035

Marta Halina

Publications

Articles in journals

Marta Halina, “There is No Special Problem of Mindreading in Nonhuman Animals,” *Philosophy of Science* 82 (2015): 473-490.

Reviews

Marta Halina, Review of *Darwin Deleted: Imagining a World without Darwin*, by Peter J. Bowler, *The Quarterly Review of Biology*.

Marta Halina, “Understanding Mechanistic Research,” review of *In Search of Mechanisms: Discoveries Across the Life Sciences*, by Carl F. Craver and Lindley Darden, *Metascience*.

Lectures, seminars and conferences

April 2015

Marta Halina, “Abstraction, Idealization, and the Ontic View of Explanation” (paper presented to the Department of Philosophy, VU University Amsterdam, Netherlands, April 29, 2015)

May 2015

Marta Halina, “Abstraction, Idealization, and the Ontic View of Explanation” (paper presented to Cambridge Philosophy of Science, Cambridge University, UK, May 20, 2015)

Marta Halina, “Mindreading Severely Tested” (paper presented to Work in Progress Talks, Selwyn College, Cambridge University, UK, May 2, 2015)

June 2015

Marta Halina, “Mindreading Severely Tested” (paper presented to the Comparative Cognition Laboratory, Cambridge University, UK, June 1, 2015)

Marta Halina, “Not Null Enough: Using Neutral Models in Community Ecology and Comparative Psychology” (paper presented at the biennial meeting of the Society for Philosophy of Science in Practice, University of Aarhus, Aarhus, Denmark, 24-26 June, 2015)

July 2015

Marta Halina, “Explanatory Constraints in Comparative Psychology” (paper presented at the biennial meeting of the International Society for the History, Philosophy, and Social Studies of Biology, Université du Québec à Montréal, Montréal, Canada, 5-10 July, 2015)

August 2015

Marta Halina, “Inference and Error in Comparative Psychology: The Case of Mindreading” (paper presented as part of Minds Online: A Virtual Conference on Topics in the Philosophy and Science of Mind, 31 August-4 September, 2015)

Vanessa Heggie

Vanessa spent 3 months of this year as a Visiting Fellow at the Sydney Centre for the Foundations of Science working on topics relating to physiology and race. She was on the judging panel for two book prizes awarded this year - the History of Science Society's Suzanne J. Levinson prize and the British Society for the History of Science's Dingle Prize - and was appointed to the editorial board of the *British Journal for the History of Science*.

Publications

Articles in journals

Vanessa Heggie, "Women Doctors and Lady Nurses: Class, Education and the Professionalized Victorian Woman," *Bulletin of the History of Medicine* 89 (2015): 267-292

Vanessa Heggie, "Introduction – Special Section: Harvard Fatigue Laboratory," *Journal of the History of Biology*, 48 (2015): 361-4.

Lectures, seminars and conferences

October 2014

Vanessa Heggie, "An Awkward History of Sports Medicine: Disciplines, Definitions and Drugs" (paper presented at the Autumn Seminar Series of the Centre for the Social History of Health and Healthcare, Glasgow).

March 2015

Vanessa Heggie, "Global Histories with unlikely objects: bioprospecting, pemmican, and designer trainers," (paper presented at the History and Philosophy of Science Research Seminar, University of Sydney).

Vanessa Heggie, "A 'natural history' of blogging," (paper presented at the Centre for Values, Ethics and Law in Medicine, University of Sydney)

April 2015

Vanessa Heggie, "Manliness, amateurism and the British climber in the Himalaya: real men, real mountains?" (Paper presented at the History on Mondays Seminar Series, Department of History, University of Sydney).

Vanessa Heggie, "Blogging and Publishing," (workshop run at the Early Career/Postgraduate workshop, Centre for Race, Ethnicity and the Global South, University of Sydney)

May 2015

Vanessa Heggie, "Manliness, amateurism and the British climber in the Himalaya: real men, real mountains?" (Paper presented at the History on Mondays Seminar Series, Department of History, University of Sydney).

June 2015

Vanessa Heggie, "Querying masculinity: British-led Himalayan expeditions, 1930s–1950s," (paper presented at the History Seminar, University of Auckland).

Public Engagement and Impact

- “Monstrous Science: How the Yet gets science funded” *Guardian: the H-word*, October 31, 2015, <http://www.theguardian.com/science/the-h-word/2014/oct/31/halloween-monstrous-science-how-the-yeti-gets-research-funded>
- “If ‘boilers on prescription’ work, why not provide food on prescription too?” *Guardian: The H-Word*, December 11, 2014 <http://www.theguardian.com/science/the-h-word/2014/dec/11/if-boilers-on-prescription-work-why-not-provide-food-or-housing-on-prescription-too>
- “Medical Training: How long does it take to make a doctor?” *Guardian: The H-Word*, January 30, 2015, <http://www.theguardian.com/science/the-h-word/2015/jan/30/medical-training-how-long-does-it-take-to-make-a-doctor>
- “Nature and Sex redefined – we have never been binary” *Guardian: The H-Word*, February 19, 2015 <http://www.theguardian.com/science/the-h-word/2015/feb/19/nature-sex-redefined-we-have-never-been-binary>
- “Anglo-Saxon antibiotics are just the start – it’s time to start bioprospecting in the past” *Guardian: The H-Word*, March 31, 2015 <http://www.theguardian.com/science/the-h-word/2015/mar/31/anglo-saxon-antibiotics-are-just-the-start-its-time-to-start-bioprospecting-in-the-past>
- “Do snails have eyes? Seventeenth century ‘mythbuster’ and science communicator Sir Thomas Browne investigates” *Guardian: The H-Word*, May 13, 2015 <http://www.theguardian.com/science/the-h-word/2015/may/13/do-snails-have-eyes-seventeenth-century-mythbuster-and-science-communicator-sir-thomas-browne-investigates>
- “Hot and Dry in the Global South” *Race and Ethnicity in the Global South Project Blog*, May 20, 2015 <https://raceandethnicityintheglobalsouth.wordpress.com/2015/05/20/hot-and-dry-in-the-global-south-vanessa-heggie/>
- “Aliens, immigrants, religion and the health service in Britain” *Guardian: The H-Word*, July 28, 2015 <http://www.theguardian.com/science/the-h-word/2015/jul/28/aliens-immigrants-religion-and-the-health-service-in-britain>

Nick Hopwood



Nick Hopwood, a reader in the department, served as director of graduate studies and chair of the degree committee and managed our Wellcome Trust strategic award in the history of medicine on ‘Generation to Reproduction’. He spent most of his research time contributing to and (with Rebecca Flemming and Lauren Kassell) coediting the main output from this grant, *Reproduction: Antiquity to the Present*, a large book to be published by Cambridge University Press. He also promoted *Haeckel’s Embryos*, which came out from Chicago in May. (For a feature: <http://www.cam.ac.uk/research/features/haeckels-embryos-the-images-that-would-not-go-away>.) He became section editor (history) of the new journal *Reproductive Biomedicine and Society Online*, was elected to the council of the International Society for History, Philosophy and Social Studies of Biology and continued to sit on the Wellcome Trust’s medical humanities and social science selection panel.

Publications

Books

Nick Hopwood, *Haeckel's Embryos: Images, Evolution and Fraud* (Chicago: University of Chicago Press, 2015), viii + 388 pp., 202 colour illustrations, 2 tables

Edited works

Nick Hopwood, Peter Murray Jones, Lauren Kassell and Jim Secord (eds), *Communicating Reproduction*, special issue of *Bulletin of the History of Medicine* 89 (2015), no. 3, 379–556

Articles in journals

Nick Hopwood, “The Cult of Amphioxus in German Darwinism; or, Our Gelatinous Ancestors in Naples’ Blue and Balmy Bay,” *History and Philosophy of the Life Sciences* 36 (2015): 371–93

Nick Hopwood, Peter Murray Jones, Lauren Kassell and Jim Secord, “Introduction: Communicating Reproduction,” *Bulletin of the History of Medicine* 89 (2015): 379–405

Chapters in books

Nick Hopwood, “Der Embryologe und sein Homunkulus. Deutungen einer Marmorbüste von 1900,” in *Erkenne Dich Selbst! Strategien der Sichtbarmachung des Körpers im öffentlichen Raum*, ed. Sybilla Nikolow (Cologne: Böhlau, 2015), 144–78

Reviews

Nick Hopwood, review of *Differing Routes to Stem Cell Research: Germany and Italy* (Bologna: Il Mulino; Berlin: Duncker & Humblot, 2012), edited by Renato G. Mazzolini and Hans-Jörg Rheinberger, *Isis* 105 (2014): 869–70

Lectures, seminars and conferences

October 2014

Nick Hopwood, “Haeckel’s Embryos: Images, Evolution and Fraud” (research colloquium, German Department, University of Cambridge, October 19, 2014)

December 2014

Sarah Franklin, Martin Johnson, Nick Hopwood and Kay Elder, *IVF Early Years in Oldham* (co-organized ESRC-funded *IVF Histories and Cultures Seminar 2*, Christ’s College, Cambridge, December 11–12, 2014)

Nick Hopwood, “The Many Births of the Test-Tube Baby: Claims to Human in Vitro Fertilization” (Montagskolloquium, Deutsches Museum, Munich, December 15, 2014)

January 2015

Nick Hopwood, “Haeckel’s Embryos: Images, Evolution and Fraud” (lecture in series, *Fabriquer le vivant?* Collège de France, Paris, January 29, 2015)

March 2015

Nick Hopwood, “IVF as a Policy Analogue” (contribution to *Public Workshop of Committee on Ethical and Social Policy Considerations of Novel Techniques for Prevention of Maternal Transmission of Mitochondrial DNA Diseases*, Institute of Medicine, Washington, DC, March 31, 2015)

May 2015

Nick Hopwood, “The Many Births of the Test-Tube Baby” (The William Bynum Lecture, University of York, May 6, 2015)

Nick Hopwood, “Haeckel’s Embryos: Images, Evolution and Fraud” (tea talk, Department of Zoology, University of Cambridge, May 20, 2015)

Nick Hopwood, “The Many Births of the Test-Tube Baby: Claims to Human in Vitro Fertilization” (seminar, Max Planck Institute for the History of Science, Berlin, May 26, 2015)

Nick Hopwood, Buchpräsentation, *Haeckel’s Embryos: Images, Evolution and Fraud* (Gespräch mit Julia Voss [FAZ], Museum für Naturkunde, Berlin, May 27, 2015)

June 2015

Nick Hopwood, “Haeckel’s Embryos: Images, Evolution and Fraud” (talk at conference on *Ernst Haeckel, ein Schöpfer an der Schnittstelle der Disziplinen / Ernst Haeckel, un créateur au carrefour des disciplines*, University of Freiburg im Breisgau, June 4, 2015)

Nick Hopwood, “Haeckel’s Embryos: Images, Evolution and Fraud” (midsummer lecture and book launch at Peterhouse, Department of HPS, University of Cambridge, June 19, 2015)

Sarah Franklin, Martin Johnson, Nick Hopwood and Katie Dow, *Time Lines, Time Lapses* (co-organized ESRC-funded *IVF Histories and Cultures Seminar 3*, Christ’s College, Cambridge June 22–23, 2015)

Nick Hopwood, “Human Embryos: A History in Series” (public plenary lecture, *Time Lines, Time Lapses*, Christ’s College, Cambridge, June 22, 2015)

June–July 2015

Janet Browne, Christiane Groeben, Nick Hopwood and Staffan Müller-Wille, *Geographies of Life* (co-organized the week-long Fourteenth Ischia Summer School on the History of the Life Sciences, Ischia, Italy, with support from the Wellcome Trust, Max Planck Institute for the History of Science and Naples Zoological Station, June 27 – July 3, 2015)

September 2015

Nick Hopwood, “Proof and Publicity in Claims to Human in Vitro Fertilization” (talk at *Inside–Outside: Challenges and Prejudices*, celebratory conference for Martin Johnson, Christ’s College, Cambridge, September 21, 2015)

Boris Jardine

During 2014–15, Boris was the Munby Fellow in Bibliography (Cambridge University Library); working on a project entitled “The Book as Instrument, 1570–1720”. In HPS he was co-organiser (with Matthew Drage) of the History and Theory Reading Group, and convener of the major international conference “The Total Archive: Dreams of Universal Knowledge from the Encyclopaedia to Big Data” (19–20 March 2015, Centre for Research in the Social Sciences and Humanities, University of Cambridge).

Publications

Articles in journals

Boris Jardine, “Made Real: Artifice and Accuracy in Nineteenth-Century Scientific Illustration,” *Science Museum Group Journal* 2 (October, 2014), <http://journal.sciencemuseum.ac.uk/browse/issue-02/made-real/>

Reviews

Boris Jardine, “The Shock of the Odd,” essay review of *The Fourth Dimension and Non-Euclidean Geometry in Modern Art*, revised edition, by Linda Dalrymple Henderson, and *Loving Faster than Light: Romance and Readers in Einstein’s Universe*, by Katy Price, *British Journal for the History of Science* 48 (June, 2015), 353–6

Lectures, seminars and conferences

October 2014

Boris Jardine, “Meso-Science and Modernism: Work at the Royal Society Mond Laboratory, 1933–1972” (paper presented at the HPS departmental seminar, University of Cambridge, October 23, 2014)

November 2014

Boris Jardine, “The Book as Instrument, 1570–1720” (paper presented at the Darwin College Humanities and Social Sciences Group, University of Cambridge, November 18, 2014)

December 2014

Boris Jardine, “The uses of mathematical instrument manuals” (paper presented at the conference “Mathematical Readers in the Early-Modern World,” University of Oxford, December 19, 2015)

February 2015

Boris Jardine, “The Book as Instrument, 1570–1720” (paper presented to the Cambridge Bibliographical Society, Cambridge University Library, February 18, 2014)

March 2015

Boris Jardine, “Mass-Observation as a Total Science of the Self” (paper presented at the conference “The Total Archive: Dreams of Universal Knowledge from the Encyclopaedia to Big Data,” Centre for Research in the Arts, Social Sciences and Humanities, University of Cambridge, March 20, 2015)

Boris Jardine, “The Book as Instrument: Edmund Gunter and the Astronomical Quadrant” (paper presented at the 61st Annual Meeting of the Renaissance Society of America, Berlin, March 28, 2015)

May 2015

Boris Jardine, “On Being Compendious” (paper presented at the conference “Coping with Copia,” Université du Québec à Montréal, May 15, 2015)

June 2015

Boris Jardine, “Amateur Labour in the Social Sciences: How Interwar Mass-Observation Organized its Workforce and Presented its Results to the Public” (paper presented at the workshop “(In)visible Labor:

Knowledge Production in the Human Sciences,” Max Planck Institute for the History of Science, Berlin, June 11, 2015

September 2015

Boris Jardine. “Scientific Instruments and the Cult of Authenticity” (paper presented at the Scientific Instrument Commission Symposium, Turin, September 9, 2015)

Public Engagement and Impact

Organiser of the conference “The Total Archive: Dreams of Universal Knowledge from the Encyclopaedia to Big Data,” Centre for Research in the Arts, Social Sciences and Humanities (CRASSH), University of Cambridge, March 20, 2015; funded by CRASSH, the Wellcome Trust, the British Society for the History of Science and the *School of Humanities and Social Sciences*; featuring a public lecture by Prof. N. Katherine Hayles

Guardian blog post, “Britain’s Most Important Historic Laboratory Is Under Threat,” *The H-Word Blog*, part of [theguardian.com/science](http://www.theguardian.com/science), September 1, 2015, <http://www.theguardian.com/science/the-h-word/2015/sep/01/britains-most-important-historic-laboratory-is-under-threat>

Exhibition in the Whipple Museum of the History of Science, University of Cambridge, “The Paper Tools of Science,” featuring printed instruments, volvelles, card models, and paper calculating devices from the sixteenth century to the mid-twentieth century (on display from September 1, 2015)

Nick Jardine



Following his year as a Director of Research, Nick has continued with lecturing, graduate supervision, and helping with the organisation of seminars and workshops, notably the Cabinet of Natural History, Latin and Greek Therapy, and Aims and Methods of Histories of the Sciences. He is currently working on genres of writing and modes of persuasion in early-modern astronomy, and continues to write up his long-overdue book *On Histories of the Sciences*. Nick is on the Botanic Garden Syndicate, and devotes ever more time to the study of fungi.

Publications

Books

Christoph Rothmann's Discourse on the Comet of 1585: An Edition and Translation with Accompanying Essays, Leiden, Brill, 2014 (with M. A. Granada and A. Mosley)

Articles and reviews in journals

Kepler=Koestler: On empathy and genre in the history of the sciences, *Journal for the History of Astronomy*, 45/3 (2014), 271-288

Essay review of P. Ziche and P. Rezvykh, *Sygkepleriazlein: Schelling und die Kepler-Rezeption im 19. Jahrhundert* (Stuttgart, 2013), *Isis*, 105/3 (2014), 666–669

The pasts, presents and futures of testimony, Essay review of A. Gelfert, *A Critical Introduction to Testimony* (London, 2014), *Studies in History and Philosophy of Science*, 52/1 (2015), 95-100 (with M. Frasca-Spada).

Richard C. Jennings

Richard Jennings is an affiliated Research Scholar in the Department of History and Philosophy of Science. He directs studies for about a quarter of the HPS IB students and supervises them in philosophy of science. He is Director of Studies in Philosophy for Girton College, Homerton College, Murray Edwards College, and Queens' College. In the early 1990s he established in the HPS Department the teaching of ethical issues in science. He currently runs workshops on Ethical Conduct and the Ethics of Scientific Practice for the Graduate programme at the Wellcome Trust Sanger Institute as well as for the final year and first year graduate students in the University of Cambridge, Department of Physics.

Lectures, seminars and conferences

February 2015

"Ethics in Physics" two workshops on ethical issues that arise in the conduct of physics research, Cavendish Laboratory, Cambridge, February 16 & 23 2015

Scientists for Global Responsibility stall at "Work to Change the World" – Cambridge University's alternative careers fair, 5 February 2015

March 2015

"Ethics in Physics" two workshops on ethical issues that arise in the practice of physics, Cavendish Laboratory, Cambridge, March 2 & 9, 2015

Public Engagement and Impact

Chairman for book launch of *Altered Genes, Twisted Truths* by public interest attorney, Steve Druker, March 4th 2015

Panellist at a public meeting of the All-Party Parliamentary Group for Agroecology, March 4th 2015

Stephen John

This year, Anna Alexandrova and I were successful in securing funding for a three-year project to commence at CRASSH in September 2015 on the "Limits of the Numerical", studying the limits to and consequences of quantification in healthcare.

Publications

Articles in journals

Stephen John, "The example of the IPCC does not vindicate the value-free ideal: a reply to Gregor Betz"

European Journal for Philosophy of Science 5 (2015): 1-13

Stephen John, "Inductive risk and the contexts of communication" *Synthese* 192(2015): 79-96

Stephen John, "Efficiency, responsibility and disability: the savings argument for Pre-Natal Diagnosis" *Politics, Philosophy and Economics* 14 (2015): 3-22

Reviews

Stephen John, “Inference to the Best Epidemiology” review of *The Philosophy of Epidemiology* by Alex Broadbent *British Journal for the Philosophy of Science* 66 (3):707-711

Lectures, seminars and conferences

April 2015

Stephen John, “Lies, damn’d lies and statistics: is it possible to communicate medical risk accurately?” (Paper presented at weekly “Philosophy of Medicine” seminar, University of Bristol)

Stephen John, “Communicating climate science: the irrelevance of sincerity” (Paper presented at one-day workshop on Climate Science, Policy and Values, University of Durham)

July 2015

Stephen John, “Lies, damn’d lies and statistics: is it possible to communicate medical risk accurately?” (Paper presented at Annual Conference of the Society for Applied Philosophy, University of Edinburgh)

Stephen John, “Why climate scientists cannot and should not be sincere” (Paper presented at the bi-annual conference of the Society for Philosophy of Science in Practice, University of Aarhus)

August 2015

Stephen John, “Lies, damn’d lies and statistics: is it possible to communicate medical risk accurately?” (Paper presented at the sixth Philosophy of Medicine Roundtable, University of Bristol)

Peter Murray Jones

This has been a year of collaborative work, on the Generation to Reproduction project, also with a Swedish surgical colleague on the extraordinary Stockholm roll of the writings of John Arderne. With another hat on, this year has been devoted to the centenary of King’s College Chapel and seeing through the press a short history of King’s College.

Publications

Books

De Arte Phisicali et de Chirurgia by John Arderne; from a new digital version of the Stockholm roll, translated and commented by Torgny Svenberg and Peter Murray Jones (Stockholm: Hagströmer Biblioteket, 2014)

Articles in journals

Peter Murray Jones and Lea T. Olsan, “Performative Rituals for Conception and Childbirth in England, 900-1500”. *Bulletin of the History of Medicine* 89 (2015): 406-33.

Chapters in books

Peter Murray Jones, “Language and Register in English Medieval Surgery”, in *Language in Medieval Britain: Networks and Exchanges*, ed. Mary Carruthers, Harlaxton Medieval Studies XXV (Donington: Shaun Tyas, 2015), 74-89

Lectures, seminars and conferences

November 2014

Peter Murray Jones, “Text and Image in a Fifteenth-century Surgical Roll” (Cambridge History of Art and Architecture Graduate Seminar Series, 11 November 2014)

September 2015

Peter Murray Jones, “Surgical narrative in England in the later Middle Ages” (Medicine of Words conference, Oxford 12 September 2015)

Public Engagement and Impact

Peter Murray Jones, “Bradshaw’s Bullet”, *King’s Treasures blog*, 29 May 2015,
<https://kcctreasures.wordpress.com/>

Lauren Kassell

She continued to direct the Casebooks Project and to work on the Generation to Reproduction project, headed by Nick Hopwood. She co-organized, with Natalie Kaoukji and Alexandra Franklin, a workshop at the Weston Library, Oxford, to launch this phase of the Casebooks Project; another workshop on graphical display at CRASSH, with Anne Alexander and Michael Hawkins; and a conference on ‘Sex, Disease and Fertility’, also at CRASSH, with Simon Szreter and Rebecca Flemming. She continued as the Department’s representative on the School of Humanities and Social Sciences Research Committee and as Tutorial Bursar at Pembroke.



Publications

Edited works

Lauren Kassell (ed.), with Michael Hawkins, Robert Ralley and John Young, *The Casebooks Project: A Digital Edition of Simon Forman’s and Richard Napier’s Medical Records, 1596-1634* (2009-17)

<http://www.magicandmedicine.hps.cam.ac.uk/>

<https://github.com/CasebooksProject/casebooks-data>

This is a digital edition of Simon Forman’s and Richard Napier’s medical records. To date, work on the records from 1596 to 1610 is complete and publically accessible. These contains 32,000 edited cases (10,000 Forman, 22,000 Napier), together with innovative search and data visualization facilities, an image archive of 7,200 manuscript pages, and a calendar of 4,000 further cases that have not yet been fully edited. These are mounted on an open-access website that contains introductions to the manuscripts, guides to reading the texts and searching the edition, and information about the astrologers and their record-keeping practices, along with our detailed editorial guidelines. Our full data is accessible through GitHub. This is the print equivalent of a fourteen volume critical edition. It contains 1.4 million edited words plus six times this much metadata. Work is underway to edit Napier’s records from 1611-34, containing an additional 48,000 cases,

by summer 2017. When complete, the project will contain an estimated 3.5 million edited words, the print equivalent of a 35 volume critical edition, with optimum functionality enabled by copious metadata.

Nick Hopwood, Peter Murray Jones, Lauren Kassell, and Jim Secord (eds), *Communicating Reproduction*, a special issue of *Bulletin of the History of Medicine*, 89 (2015),
http://muse.jhu.edu/journals/bulletin_of_the_history_of_medicine/toc/bhm.89.3.html

Articles in journals

Nick Hopwood, Peter Murray Jones, Lauren Kassell, and Jim Secord, 'Introduction: Communicating Reproduction', in idem, *Communicating Reproduction*, a special issue of *Bulletin of the History of Medicine*, 89 (2015), 379-404 http://muse.jhu.edu/journals/bulletin_of_the_history_of_medicine/toc/bhm.89.3.html
Lauren Kassell, 'Casebooks in Early Modern England: Astrology, Medicine and Written Records', *Bulletin of the History of Medicine*, 88 (2014), 595-625

Lectures, seminars and conferences

November 2014

11/2014 'An Introduction to The Casebooks Project: Simon Forman's and Richard Napier's Medical Records, 1596-1634', Cambridge (postgraduate) Digital History Seminar, History Faculty, University of Cambridge

December 2014

12/2014 'Casebooks in Early Modern England: Working with Medical Records', Medieval-Renaissance Studies Association, School of History, University of Haifa

January 2015

1/2015 'Sex, Gender and Generation in Early Modern Medical Records', Cambridge University Multidisciplinary Gender Research Seminar

April 2015

4/2015 "'She saies stoutly she is not with child": Sex, Gender and Generation in Early Modern Medical Records', Centre for Early Modern and Medieval Studies, University of Sussex

June 2015

6/2015 'Stars and Scribes, Astrology and Archives', plenary lecture at 'Archival Afterlives: Life, Death and Knowledge-Making in Early Modern British Scientific and Medical Archives', The Royal Society, London

September 2015

9/2015 with Michael Hawkins, 'Digitizing Elizabeth Hartwell's Clumpers of Blood: CASE12702 and the Challenges of Digital Humanities', Making at 'Making Big Data Human: Doing History in a Digital Age', CRASSH, University of Cambridge

9/2015 'Questions about Sex and Generation: Poxes, Fluxes and Pregnancies in Early Modern Casebooks', at 'Sex, Disease and Fertility in History', organized by Simon Szreter, Rebecca Flemming and Lauren Kassell, CRASSH, 28-30 September 2015

Public Engagement and Impact

Participation in the Epic Games and Wellcome Trust Big Data Challenge, spring 2015. See

<http://www.wired.co.uk/news/archive/2015-05/20/big-data-vr-challenge-teams-selected> and
<https://www.unrealengine.com/blog/epic-games-and-wellcome-trust-reveal-20000-big-data-vr-challenge-winner>

‘The Casebooks Project’, Wellcome Trust staff lunchtime seminar, 20.11.14

‘Is menstruation healthy?’, a public debate at the Cambridge Festival of Ideas organized with Leah Astbury, 22.10.14 <http://www.reproduction.group.cam.ac.uk/festival-of-ideas-debate-is-menstruation-healthy/>

Melanie Keene

Melanie continued as Graduate Tutor at Homerton College, and also lectured on the history of education for Parts I and II of the Education Tripos. She worked with the Outreach and Education Committee of the British Society for the History of Science, and joined the History of Education Society (UK) as Treasurer.

Publications

Books

Melanie Keene, *Science in Wonderland: the scientific fairy tales of Victorian Britain* (Oxford: Oxford University Press, 2015)

Lectures, seminars and conferences

November 2014

Melanie Keene, “The Telegraph Children: technology, gender, and transnationalism in nineteenth-century juvenile periodicals” (paper presented at History of Education Society Annual Conference, Dublin, November 21-23, 2014)

May 2015

Melanie Keene, “The elephant in the room: presence, practice, and pachyderms in Victorian education” (paper presented at the Cabinet of Natural History, HPS Cambridge, May 18, 2015)

July 2015

Melanie Keene, “Heads, shoulders, knees, and toes: embodied anatomy for children in the nineteenth century” (paper presented at the British Society for the History of Science Annual Conference, Swansea, July 2-5, 2015)

September 2015

Melanie Keene, “‘Alice’s Adventures Under Glass’: microscopic practice, science education and travel writing in the late nineteenth and early twentieth centuries” (‘Alice through the Ages’ Conference, Cambridge, September 15-17, 2015)

Public Engagement and Impact

Panellist, ‘The Science of Fiction: Future’, Cambridge Festival of Ideas, October 22, 2014

(<http://www.cambridge-tv.co.uk/the-science-of-fiction/>)

Chair, 'Reading the Anthropocene', Cambridge Festival of Ideas, November 30, 2014

Melanie Keene, 'Cinderella Science', Oxford University Press blog, March 2015

(<http://blog.oup.com/2015/03/cinderella-science/>)

Melanie Keene, 'Science in Wonderland', public talk at The Story Museum, Oxford, May 14, 2015

Organiser and co-leader, 'Ancient Astronomy', Technologies of Daily Life schools' day, Swansea, July 1, 2015

Melanie Keene, 'Alice down the microscope', Oxford University Press blog, July 2015

(<http://blog.oup.com/2015/07/alice-microscope/>)

Melanie Keene, 'Science in Wonderland', public talk for the London Fortean Society, Conway Hall, London, July 13, 2015)

Contributor, 'Dinosaurs', BBC Radio 4 'Natural Histories' series, July 28, 2015

(<http://www.bbc.co.uk/programmes/b05w9b6j>)

Allison Ksiazkiewicz

This summer, I had the privilege of undertaking two research-fellowships. I spent four weeks in June at the University of Oxford as BSECS-Bodleian Fellow, where I examined the correspondence, diaries and notebooks of scientific travellers exploring the Near East and Levant during the late eighteenth and early nineteenth centuries. For the month of July, I was Visiting Scholar in Special Collections at St Andrews University and studied the scientific manuscripts of natural philosopher James David Forbes (1809–1868) focusing on his meteorological research. This new interest in meteorology comes from the Object Histories on the history of meteorological instruments that I completed for the Whipple Museum in November 2014.

In October, I begin a six-month postdoctoral position at the Paul Mellon Centre for Studies in British Art in London to transform my PhD dissertation into a book manuscript tentatively titled *Archetypes of Nature: Visualizing Geological Landscape during the British Enlightenment*. Research conducted during my Oxford fellowship directly feeds the revision of my student work for this project.

Articles in journals

Allison Ksiazkiewicz, "A Philosophical Pursuit: Natural Models and the Practical Arts in Establishing the Structure of the Earth,' *History of Science* 53 (2015): 125–154.

Reviews

Allison Ksiazkiewicz, Review of *Geographies of the Romantic North: Science, Antiquarianism, and Travel, 1790–1830*, by Angela Byrne, *British Journal for the History of Science* 48 (2015): 180–181.

Public Engagement and Impact

Workshop by Allison Ksiazkiewicz, "Studies of the Atmosphere and the Aesthetics of Colour by James David Forbes," Special Collections, St Andrews University, 30 July 2015.

Sachiko Kusakawa

I have been appointed Honorary Professor of History of Science by the University. My AHRC Research Grant to examine the role of images in the early Royal Society, administered through CRASSH (<http://www.crassh.cam.ac.uk/programmes/making-visible-the-visual-and-graphic-practices-of-the-early-royal-society>), started on 1 March 2015.

Edited works

Co-edited with Felicity Henderson and Alexander Marr, 'Curiously Drawn: Early Modern Science as a Visual Pursuit', *Huntington Library Quarterly*, 78, special issue.

Chapters in books

Sachiko Kusukawa, "Drawing as an instrument of knowledge: the case of Conrad Gessner", *Vision and Its Instruments: Art, Science, and Technology in Early Modern Europe*, ed. A. Payne (University Park: Penn State University Press), 36-48.

Reviews

Sachiko Kusukawa, "Review of Matthew C. Hunter, *Wicked Intelligence: Visual Art and the Science of Experiment in Restoration London*. Chicago: University of Chicago Press, 2013", *British Journal for History of Science* 48 (2015): 361-62.

Lectures, seminars and conferences

October 2014

Sachiko Kusukawa, "Epistemic Images in Early Modern Europe" (paper presented at the graduate research seminar series, *Art and Science*, Dept of History of Art, University of Cambridge).

November 2014

Sachiko Kusukawa, "The Body in the Book: the *Fabrica* and the *Epitome* (1543)" (keynote lecture at a conference, *Vesalius and the Invention of the Modern Body*, Washington University and St Louis University).

February 2015

Sachiko Kusukawa, "The Body in the Book: the *Fabrica* and the *Epitome* (1543)" (keynote lecture at a symposium, *Vesalius and the Invention of the Modern Body*, Washington University and St Louis University, 26-28 February, 2015)

March 2015

Sachiko Kusukawa, "William Courten (1642-1702): naturalia as currency and credit" (invited paper for a meeting, *Migration of natural historical knowledge between media, 1550-1680*, Max-Planck Institute for the History of Science, Berlin).

Sachiko Kusukawa, "Illustrating the *Philosophical Transactions*: the first fifty years" (paper given at a meeting, *Publish or Perish? The past, present and future of the scientific journal*, at the Royal Society, London, 19-21 March, 2015).

April 2015

Sachiko Kusukawa, "Vivitur ingenio: the Vesalian Spirit" (invited lecture, The Mütter Museum of the College of Physicians of Philadelphia)

Sachiko Kusukawa, "The Body in the Book Vesalius and the *Fabrica* (1543)" (invited lecture, Dittrick Medical Library and Museum and the Cleveland Medical Library Association, Cleveland, Ohio)

Sachiko Kusakawa, "Picturing the *materia medica*: the role of images in the study of medicinal plants in the Renaissance' (invited lecture, *Gideon de Laune Lecture*, Faculty of the History and Philosophy of Medicine and Pharmacy, The Worshipful Society of Apothecaries, London).

May 2015

Sachiko Kusakawa, "Vesalius" (invited speech to open an exhibition on Vesalius curated by Uppsala University Library and the Hagströmer Medico-Historical Library at Karolinska Institutet in Stockholm).

June 2015

Sachiko Kusakawa, "The visual and material cultures of science", (keynote lecture, *Things to Know: Material Culture in Scientific Practice, 6th Gewina Meeting of Historians of Science in the Low Countries*, Woudschoten)

Public Engagement and Impact

Sachiko Kusakawa, "Visual Science" (public engagement lecture on the occasion of *Big Draw: Drawing Science*, The Royal Society, London, October 2014).

Gerald Kutcher

Publications

Reviews

Peter Keating and Alberto Cambrosio, "Cancer on Trial: Oncology as a New Style of Practice," review of *Cancer on Trial: Oncology as a New Style of Practice* review by Gerald Kutcher, *J Hist Med Allied Sci* first published online September 7, 2015 doi:10.1093/jhmas/jrv027

Lectures, seminars and conferences

November 2014

Gerald Kutcher, *High Expectations: A History of Cancer Therapies*, (paper presented at the American Academy in Rome, Italy, November 14, 2014)

Natalie Lawrence

AHRC Award holder.

Publications

Articles in journals

Natalie Lawrence, "Assembling the dodo in early modern natural history," *The British Journal for the History of Science* 48 (2015): 3, 387-408.

Natalie Lawrence, "Exotic origins: the emblematic biogeographies of early modern scaly mammals," *Itinerario* 39 (2015):1, 17-43.

Reviews

Natalie Lawrence, "Entrepreneurial Knowledge-Making: Review of *Commercial Visions: Science, Trade and Visual Culture in the Dutch Golden Age*, by Dániel Margócsy, University of Chicago Press, 2014," *Endeavour* 39 (2015): 2, 83-84.

Natalie Lawrence, "Plumed wonders and ornithological passions," review of *Drawn from Paradise: The Natural History, Art and Discovery of the Birds of Paradise*, David Attenborough, Errol Fuller. Collins, London (2012) and *Ten Thousand Birds: Ornithology since Darwin*, Tim Birkhead, Jo Wimpenny, Bob Montgomerie. Princeton University Press, Woodstock, Oxfordshire (2014). *Studies in History and Philosophy of Science, Part C* 47 (2014): 206-209.

Lectures, seminars and conferences

December 2014

Natalie Lawrence, "Beasts of the Indies: exotic commodities and constructing Indian Ocean fauna" (paper given at the conference *Bodies, Objects and Knowledge Since the Age of Empires*, at Nehru Memorial Museum and Library, New Delhi, December 17, 2014)

January 2015

Natalie Lawrence, "Between objects and emblems: early modern creature histories" (paper presented at BSHS Postgraduate conference, London, January 9, 2015)

February 2015

Natalie Lawrence, "Trade plumes and fallen angels: the museological careers of bird of paradise skins" (paper presented at the workshop *In(ter)ventions: Object Histories Outside and Inside the Museum*, British Museum, February 12, 2015)

June 2015

Natalie Lawrence, "The Prime Minister and the Platypus" (talk at Cabinet of Natural History Garden Party, Cambridge, June 12, 2015)

July 2015

Natalie Lawrence, "Indian monsters in early modern Europe" (paper presented at International Conference of Historical Geographers, London, July 6-10, 2015)

Public Engagement and Impact

Natalie Lawrence, "Scaly mammals and elephant fish: early modern monsters on the Great Chain of Being" (Talk at the Cambridge Natural History Society, Cambridge, November 6, 2014)

Geoffrey Lloyd

In March 2015 I received the Fyssen Prize for 2014 for work on cross-cultural cognition.

In April 2015 I was elected a Fellow of the Learned Society of Wales.

Publications

Books

G.E.R. Lloyd, *Analogical Investigations: Historical and Cross-Cultural Perspectives on Human Reasoning* (Cambridge University Press 2015).

G.E.R. Lloyd, *Aristoteles* (Turkish edition of *Aristotle the Growth and Structure of his Thought*) (Istanbul, Pinhan, 2015)

Articles in journals

G.E.R. Lloyd, "On the very possibility of mutual intelligibility", *HAU: Journal of Ethnographic Theory* 4.2 (2014) 1-15

G.E.R. Lloyd "Notes on the Framework for Comparing Science and Philosophy across Civilizations". *Journal of Chinese Philosophy* 40:5 (2013, publ. 2014) 1-8.

Chapters in books

G.E.R. Lloyd, "Pythagoras" in *A History of Pythagoreanism* ed. C.A. Huffman (Cambridge University Press 2014) 24-45.

Reviews

G.E.R. Lloyd, "Back from the Dead" Review of *Galen: Psychological Writings*, ed. P.N. Singer, *Times Literary Supplement* 5810 August 8 2014, 7-8.

G.E.R. Lloyd, "Aristotle on Circular Motion" Review of *Aristotle's Empiricism* by Jean de Groot, in *Journal of the History of Astronomy* 26.3 (2014) 372-3.

Lectures, seminars and conferences

November 2014

Participant in conference on Galenism at Exeter University, 11-14 November

December 2014

Participant in Second Sawyer Seminar on Comparatism, CRASSH Cambridge, 11-14 December.

G.E.R. Lloyd, "Analogies, Models and Images: Some first-order and second-order observations on their use in Greek and Chinese Ethics" "paper presented to a conference on Greek and Chinese Ethics at the University of Bern, 14-16 December

April 2015

Commentator in Third Sawyer Seminars on Comparatism, CRASSH Cambridge, April 23-25.

G.E.R. Lloyd "Images and Analogies in Greek and Chinese ethics" lecture presented at the Università di Tor Vergata, Rome, 28 April

G.E.R. Lloyd "Cognitive Domestications", lecture presented at the University of Malta, Valletta, Malta, 30 April

June 2015

Participant in Berggruen workshop on Philosophy and Culutre: Cross-Cultural Studies, Cambridge, 24-5 June

Participant in conference on the Legacy of Meyer Fortes, Trinity College Cambridge, 30 June

September 2015

Participant in final Sawyer seminars on Comparatism, CRASSH, 24-26 September.

Scott Mandelbrote

Scott Mandelbrote is one of the directors of the 'Bible and Antiquity in the Nineteenth Century' project, funded by the ERC and based at CRASSH. He is also a director of the Newton Project.

Publications

Articles in journals

Scott Mandelbrote, "The Publication and Illustration of Robert Morison's *Plantarum Historiae Universalis Oxoniensis*", *Huntington Library Quarterly*, 78 (2015): 349-79

Chapters in books

Scott Mandelbrote, "'The Doors shall fly open': Chronology and Biblical Interpretation in England, c. 1630-c. 1730", in *The Oxford Handbook of the Early Modern Bible*, ed. Kevin Killeen et al. (Oxford: Oxford University Press, 2015), 176-95.

Reviews

Scott Mandelbrote, "Left Hanging", review of *Richard Hooker: On the Laws of Ecclesiastical Polity*. ed. A.S. McGrade, in *Times Literary Supplement*, 5824, November 14 2014: 32.

Scott Mandelbrote, review of *Dating the Passion*, by C. Phillip E. Nothaft, in *Isis*, 105 (2014): 831-2.

Scott Mandelbrote, review of *Wicked Intelligence*, by Matthew C. Hunter, in *Isis*, 105 (2014): 843-5.

Scott Mandelbrote, review of *Johann Heinrich Hottinger*, by Jan Loop, in *The Library*, 7th series, 16 (2015): 204-6.

Lectures, seminars and conferences

October 2014

Scott Mandelbrote, "Newton the Scholar" (paper at the Huntington Library, San Marino, California)

January 2015

Scott Mandelbrote, "Isaac Newton, his library, and the history of scholarship" (lecture to the Bibliographical Society, London)

April 2015

Scott Mandelbrote, "Newton's library, his mathematics, and the *Commercium epistolicum*" (paper at the Università degli Bergamo)

Scott Mandelbrote, "Exile and Biblical Understanding" (paper at a conference on Early Modern Ethnic and Religious Communities in Exile, Hebrew University of Jerusalem)

May 2015

Scott Mandelbrote, “Hiob Ludolf and biblical evidences’ (keynote address, conference on Ludolf and Wansleben, Forschungsinstitut, Gotha)

Scott Mandelbrote, “Meanings of the Latin word ‘Genius’” (paper at a workshop held by the research project on the Language of Early Modern Ingenuity, CRASSH, Cambridge)

June 2015

Scott Mandelbrote, “Joseph Beaumont and Isaac Newton” (lecture to the Society for the History of the University of Cambridge)

Anita McConnell

On 2 September 2015 at the Gesellschaft Deutscher Chemiker meeting in Dresden I spoke on behalf of the late Brian Gee whose book, *Francis Watkins and the Dollond Patent Controversy*, had been awarded the Paul Bunge prize for the best book on the history of scientific instruments. Brian had died before the book was quite finished; it was prepared for press by Alison Morrison-Low and myself, and published by Ashgate. The prize money has been given to the Scientific Instrument Society for its fund to assist students.

Richard A. McKay

Working 50% full-time as a Wellcome Trust Research Fellow and the remainder of his time as an academic, career, and life coach at Rich Life Coaching (www.richlifecoaching.co.uk), during the 2014-15 academic year Dr. Richard A. McKay continued in his position as Director of Studies for HPS at Magdalene College and supervised a distinction-earning master’s dissertation for the Department. In his capacity as an executive committee member of the Society for the Social History of Medicine, Dr. McKay assisted in the organisation of the Oral History Society’s annual conference, which took place at Royal Holloway, University of London, in July 2015. He also took up an ongoing position on the Media Reference Group for the London-wide HIV Prevention Campaign, ‘Do It London’, where his role is to provide expert historical background on the campaign’s proposed content.

Publications

Reviews

Richard A. McKay, “HIV/AIDS Histories: Community Service Organizations and the Direct-Action AIDS Movement in Documentary Film,” reviews of *We Were Here* (Peccadillo Pictures, 2011), directed and produced by David Weissman; *United in Anger: A History of ACT UP* (United in Anger, Inc., 2012), directed by Jim Hubbard and produced by Sarah Schulman; and *How to Survive a Plague* (Network Releasing, 2012), directed by David France and produced by Howard Gertler and David France, *Bulletin of the History of Medicine* 88 (2014): 734-77.

Lectures, seminars and conferences

February 2015

Richard A. McKay, “Is My Sexual Orientation Relevant to My Work? Determining Interest for Coaching Aimed at LGB & T Staff at the University of Cambridge” (workshop presented at St. Catharine’s College, Cambridge, 18 February 2015)

May 2015

Richard A. McKay, “‘Evil is in the eyes of the beholder’: Venereal Disease and Homosexual Contact in Vancouver’s Bathhouse Debates” (paper presented at the annual meeting of the American Association for the History of Medicine, New Haven, Connecticut, 1-3 May 2015)

Public Engagement and Impact

Participated as invited member of the Media Reference Group to provide ongoing historical background, analysis, and insight into content for the London HIV Prevention Programme, <http://www.doitlondon.org>.

James Moore

A quiet year for Jim as he continues tracking down the elusive young Alfred Russel Wallace for Iwan Rhys Morus’s new series ‘Scientists of Wales’, with several week-long expeditions into the principality.

Publications

Chapters in books

James Moore, “Getting the Kids Involved – Darwin’s Paternal Example,” in *Darwin-Inspired Learning*, ed. Carol Boulter et al. New Directions in Mathematics and Science Education, vol. 28 (Rotterdam: Sense Publishers, 2014), pp. 89-105

Lectures, seminars and conferences

October 2014

Guest lecture (with Randal Keynes OBE, Alister Hay, London Wildlife Trust and Angela Huxley Darwin), ‘Visit to Down House, the Home of Charles Darwin’, Master Sciences De l’Universe, Environnement, Ecologie (SDUEE) and Departement des langues, Sorbonne-Université Pierre et Marie Curie, Paris 6 (Downe, Kent, 8 October 2014)

December 2014

Guest lecture, Department of History, with Department of Ecology and Evolutionary Biology, University of California at Los Angeles (Los Angeles, 8 December)

February 2015

Inaugural lecture, Cambridge University Charles Darwin Society (Department of Geology, University of Cambridge, 12 February 2015)

July 2015

Guest lecture, Biol S-112 Study Abroad at Oxford: Darwin and the Origins of Evolutionary Biology (Dr Andrew Berry), Harvard University Summer School (Cambridge, England, 17 July 2015)

Public Engagement and Impact

Public lecture, Highlands Biological Station, Western Carolina University of the University North Carolina (Highlands, North Carolina, 3 December 2014)

Public lecture, Bishop's Castle Arts Festival (Bishop's Castle, Shropshire, 21 February 2015)

Ayesha Nathoo

In October 2014 I started a three-year Wellcome Trust Research Fellowship at the Centre for Medical History, University of Exeter, for the project: "Cultivating Relaxation in Twentieth-Century Britain".

I have also been a collaborator with the interdisciplinary Hubbub group, the first residents of The Hub space at the Wellcome Collection, London, investigating notions of rest and busyness in modern life.

Publications

Articles in journals

Ayesha Nathoo, "Healing Broken Hearts: From Surgery to Relaxation", *Viewpoint*, Magazine of the British Society for the History of Science, 106 (2015): 12

Lectures, seminars and conferences

June 2015

Ayesha Nathoo, "Relaxation for Health and Wellbeing" (paper presented at conference, "On Balance: Lifestyle, mental health and wellbeing", Centre for Medical History, University of Exeter, June 25–26, 2015)

September 2015

Ayesha Nathoo, "Rest and Relaxation in the Modern World" (panel discussion, Wellcome Collection, London, September 10, 2015).

Discussant at "Reproduction on Film" conference, Department of History and Philosophy of Science, University of Cambridge, September 23–25.

Public Engagement and Impact

"Mindfulness and Stress Reduction: Learning to Surf on the Underground", *Hubbub Blog*, November 14, 2014.
<http://hubbubgroup.org/2014/11/14/mindfulness-and-stress-reduction-learning-to-surf-on-the-underground-ayesha-nathoo/>

"All we Need is Rest" workshop as part of *Being Human: A Festival of the Humanities*, Wellcome Collection, November 18, 2014.

"An Interactive History of Relaxation", workshop in Guerilla Science tent, *Secret Garden Party*, Huntingdon, July 25, 2015.

“A History of Relaxation”, workshop in NOW Live Events tent, *Wilderness* festival, Cornbury Park, Oxfordshire, August 8, 2015.

“Relaxation Then and Now”, workshop as part of *Friday Late Spectacular: Hubbub*, Wellcome Collection, London, September 4, 2015.

Jesse Olszynko-Gryn

Wellcome Trust research fellowship in medical humanities, 36 months starting 01/10/2015.

College Research Associate and Director of Studies, St John’s College, Cambridge, coterminous with Wellcome fellowship.

Editorial board member of *Reproductive BioMedicine and Society Online* from March 2015.

Lectures, seminars and conferences

October 2014

Jesse Olszynko-Gryn, ‘Pregnancy testing before DIY’, paper presented at the Departmental Seminar, Department of History and Philosophy of Science, University of Cambridge, 16 October 2015.

March 2015

Jesse Olszynko-Gryn, graduate seminar on ‘Soylent Green’ at King’s College London, 24 March 2015.

May 2015

Jesse Olszynko-Gryn, lunchtime seminar on ‘Medicine in film’ at Highgate School, London.

June 2015

Jesse Olszynko-Gryn, ‘Science fiction cinema in the Malthusian moment: *Z.P.G.* and *Soylent Green*’, paper presented at ‘Stories about science: exploring science communication and entertainment media’, a research symposium at the University of Manchester, 4-5 June 2015.

July 2015

Jesse Olszynko-Gryn, ‘As simple as buying a lipstick’? The market for pregnancy testing in Britain, 1965-88’, paper presented at the International Society for the History, Philosophy and Social Studies of Biology’, Université du Québec à Montréal, 5-10 July 2015.

August 2015

Jesse Olszynko-Gryn, ‘The Émigré Biography of Hamburg GP and Pregnancy Tester Edward Elkan’, paper presented at ‘Writing the History of the Forced-Migration of German-Speaking Neuroscientists and Biomedical Researchers between 1933 and 1989’, Oxford Workshop at Wadham College, 27-30 August 2015.

September 2015

Jesse Olszynko-Gryn, ‘Activist Pregnancy Testing in 1970s Britain’, paper presented at ‘Women’s History Network Annual Conference: Female Agency, Activism and Organisation’, University of Kent (Canterbury), 4-6 September 2015.

Jesse Olszynko-Gryn, 'Thin Blue Lines: Clearblue and the Rise of Pregnancy Testing in British Cinema and Television', paper presented at the 'Reproduction on Film' conference, Department of History and Philosophy of Science, University of Cambridge, 23-25 September 2015.

Public Engagement and Impact

'Reproduction on Film: Outlaws', a series of public film screenings held at the Umney Theatre, Robinson College, and St Philip's Church Centre, Mill Road, 4 February – 11 March 2015.

Alison M. Pearn

Associate Director, Darwin Correspondence Project. Associate, Clare Hall. Trustee, Menagerie Theatre Company, Cambridge. Member, Digital HPS Consortium.

Publications

Books

Alison M. Pearn, *Darwin: All That Matters* (London: John Murray Learning, 2015)

Edited works

Frederick Burkhardt, James A. Secord, Janet Browne, Samantha Evans, Shelley Innes, Francis Neary, Alison M. Pearn, Anne Secord, Paul White (eds), *The Correspondence of Charles Darwin*, vol. 22 (1874) (Cambridge: Cambridge University Press, 2015)

Lectures, seminars and conferences

July 2015

Alison M. Pearn, "'We are arriving at very curious results": Charles Darwin's curiosity', Cambridge University International Programmes guest lecture, 7 July 2015

Alison M. Pearn, 'Networking Victorian style: Charles Darwin's circle of influence', Cambridge University Interdisciplinary Summer School plenary lecture, 14 July 2015

Alison M. Pearn, 'Evolution or revolution? Darwin's impact on science', IARU Global Summer Programme plenary lecture, 16 July 2015

Public Engagement and Impact

'Charles Darwin in public and private', Madingley Lecture Series, Madingley Hall, Cambridge, 2 July 2015

J. Brian Pitts

For the ongoing Templeton grant to reconsider space-time philosophy in light of particle physics, two papers were nearly completed. Two contributions to conference proceedings were also made. Articles were reviewed for a variety of journals.

Lectures, seminars and conferences

October 2014

Four lectures on constrained Hamiltonian dynamics at DAMTP for the seminar (with Nicholas J. Teh) Foundations of Classical Dynamics, Mathematical Tripos Part III, Michaelmas 2014. Explored the “problem of time” and found that the Hamiltonian formalism really does have change when made equivalent to the Lagrangian formalism.

November 2014

‘Historical and Philosophical Insights about General Relativity and Space-time from Particle Physics’, PSA 2014: Philosophy of Science Association 24th Biennial Meeting (Chicago, Illinois), 7 November 2014, Chicago.

‘Einstein’s Physical Strategy and Massive Gravity from Seeliger & Neumann till Now’, Max-Planck-Institut für Wissenschaftsgeschichte, Berlin, Germany, 26 November 2014.

December 2014

‘Einstein’s Physical Strategy and Energy Conservation’, Department of Applied Mathematics and Theoretical Physics, University of Cambridge, 9 December 2014.

January 2015

Einstein’s Physical Strategy for General Relativity in Light of Energy Conservation, Symmetries and Stability: An HPS Case Study’, Department of Philosophy, University of Bristol, 28 January 2015.

March 2015

‘Einstein’s Physical Strategy, Energy Conservation, Symmetries and Stability’, 18 March 2015, at ‘100 years of General Relativity: On the Foundations of Spacetime Theories’, The Working Group ‘Philosophy of Physics’ (Arbeitsgruppe Philosophie der Physik) of the Deutsche Physikalische Gesellschaft, Technische Universität Berlin, 15-20 March 2015.

April 2015

‘Space-time Theory, Particle Physics and Evidence’, 17 April 2015, at the 10th UK Integrated History and Philosophy of Science Workshop, University of Durham, 16-17 April 2015.

July 2015

‘Changing Observables in Canonical General Relativity from Hamiltonian-Lagrangian Equivalence’, Problem of Time Workshop, Ludwig-Maximilians-Universität München, Munich, Germany, 4 July 2015, invited.

‘Real Change in Hamiltonian GR Observables from Equivalence to the Lagrangian’, LOOPS '15, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, 7 July 2015.

‘Einstein, Particle Physics, Kant and Schlick’, SLMCE-8 (VIII Congreso de la Sociedad de Lógica, Metodología y Filosofía de la Ciencia en España), Universitat de Barcelona, Spain, 9 July 2015.

‘Changing Observables in Hamiltonian General Relativity’, Cambridge Summer Workshop: Philosophy of Physics, University of Cambridge, 17 July 2015.

‘Empirical Significance in Some (Nearly) Fundamental Physical Theories’, The Making of Measurement, CRASSH (Centre for Research in the Arts, Social Sciences, and Humanities), University of Cambridge, 23 July 2015.

September 2015

'Einstein's Physical Strategy, Energy Conservation, Symmetries and Stability', EPSA 2015: The Fifth Biennial Conference of the European Philosophy of Science Association, Düsseldorf, Germany, 23-26 September 2015.

James Poskett

James Poskett works on the global and imperial history of science, from 1750 to 1900. He also has research interests in the history of the book and the history of race. In 2014-2015 he co-convoked the Global Science seminar series at the Centre for Research in the Arts, Social Sciences, and Humanities (CRASSH). From October 2015 he will be the Adrian Research Fellow at Darwin College, University of Cambridge.

Publications

Articles in journals

James Poskett, 'Sounding in silence: men, machines and the changing environment of naval discipline, 1796-1815', *The British Journal for the History of Science* 48 (2015), 213-232.

James Poskett, 'Forgotten dreams: recalling the patient in British psychotherapy, 1945-1960', *Medical History* 59 (2015), 241-254.

Lectures, seminars and conferences

November 2014

James Poskett, 'Casts of minds: the social life of Rammohun Roy's skull' (paper presented at History and Cultures Workshop, University of Birmingham, UK, 27 November 2014)

James Poskett, 'Metropole of the mind: the making of phrenology in nineteenth-century Bengal' (paper presented at Colonial and Postcolonial New Researchers' Workshop, Institute of Historical Research, London, UK, 10 November 2014)

December 2014

James Poskett, 'A world in print: global histories of science and the book, 1845-2006' (paper presented at The Global History of the Book, University of Oxford, UK, 4 December 2014)

James Poskett, 'Lost in transit: failures of circulation in nineteenth-century science' (paper presented at Bodies, Objects and Knowledge from the Age of Empire, Nehru Memorial Library, New Delhi, India, 16 December 2014)

April 2015

James Poskett, 'Paper minds: science in nineteenth-century Bengali print culture' (paper presented at Print Media in the Colonial World, University of Cambridge, UK, 17 April 2015)

July 2015

James Poskett, 'Phrenology on the plantation: correspondence, character and the abolition of slavery' (paper presented at British Society for the History of Science Conference, University of Swansea, UK, 5 July 2015)

Public Engagement and Impact

James Poskett, 'Science and race in colonial India', outreach lecture for Sutton Trust, August 20, 2015.

James Poskett, 'Stamping out slavery', *Royal Museums Greenwich Collections Blog*, August 17, 2015,

<http://blogs.rmg.co.uk/collections/2015/08/17/stamping-out-slavery/>

Christopher David Preston

I have been an Affiliated Research Scholar since May 2015, so this is a transitional year and most entries below reflect my earlier existence as an employee of CEH (retired 31 March 2015).

Publications

Books

Clive A. Stace, Christopher D. Preston & David A. Pearman, *Hybrid Flora of the British Isles* (Bristol: Botanical Society of the British Isles, 2015)

Edited works

Tom L. Blockeel, Sam D.S. Bosanquet, Mark O. Hill & Christopher D. Preston, *Atlas of British & Irish Bryophytes Volumes 1-2* (Newbury: Pisces Publications, 2014)

Helen E. Roy, Christopher D. Preston & David B. Roy, *Special issue: Fifty years of the Biological Records Centre. Biological Journal of the Linnean Society* 115(3) (2015)

Articles in journals

Duarte S. Viana, Luis Santamaría, Klaus Schwenk, Marina Manca, Anders Hobaek, Marit Mjelde, Christopher D. Preston, Richard J. Gornall, Jane M. Croft, R. Andrew King, Andy J. Green & Jordi Figuerola, "Environment and biogeography drive aquatic plant and cladoceran species richness across Europe," *Freshwater Biology* 59 (2014): 2096-2106

Helen E. Roy, Chris D. Preston, Colin A. Harrower, Stephanie L. Rorke, David Noble, Jack Sewell, Kevin Walker, John Marchant, Becky Seeley, John Bishop, Alison Jukes, Andy Musgrove, David Pearman & Olaf Booy, "GB Non-native Species Information Portal: documenting the arrival of non-native species in Britain," *Biological Invasions* 16 (2014): 2495-2505

Helen E. Roy, Jodey Peyton, David C. Aldridge, Tristan Bantock, Tim M. Blackburn, Robert Britton, Paul Clark, Elizabeth Cook, Katharina Dehnen-Schmutz, Trevor Dines, Michael Dobson, Francois Edwards, Colin Harrower, Martin C. Harvey, Dan Minchin, David G. Noble, Dave Parrott, Michael J.O. Pocock, Chris D. Preston, Sugoto Roy, Andrew Salisbury, Karsten Schonrogge, Jack Sewell, Richard H. Shaw, Paul Stebbing, Alan J.A. Stewart & Kevin J. Walker, "Horizon scanning for invasive alien species with the potential to threaten biodiversity in Great Britain," *Global Change Biology* 20 (2014): 3859-3871

Duarte S. Viana, Jordi Figuerola, Klaus Schwenk, Marina Manca, Anders Hobaek, Marit Mjelde, Christopher D. Preston, Richard J. Gornall, Jane M. Croft, R. Andrew King, Andy J. Green & Luis Santamaría, "Assembly mechanisms determining high species turnover in aquatic communities over regional and continental scales," *Ecography* (2015): DOI 10.1111/ecog.01231

Helen E. Roy, Christopher D. Preston & David B. Roy, "Fifty years of the Biological Records Centre," *Biological Journal of the Linnean Society* 115 (2015): 469-474

- Michael J.O. Pocock, Helen E. Roy, Christopher D. Preston & David B. Roy, “The Biological Records Centre: a pioneer of citizen science,” *Biological Journal of the Linnean Society* 115 (2015): 475-493
- Christopher D. Preston & David A. Pearman, “Plant hybrids in the wild: evidence from biological recording,” *Biological Journal of the Linnean Society* 115 (2015): 555-572
- Mark O. Hill & Christopher D. Preston, “Disappearance of boreal plants in southern Britain: habitat loss or climate change?” *Biological Journal of the Linnean Society* 115 (2015): 598-610
- Francisco J. Valtuena, Markus S. Dillenberger, Joachim W. Kadereit, Abigail J. Moore & Christopher D. Preston, “What is the origin of the Scottish populations of the European endemic *Cherleria sedoides* (Caryophyllaceae)?,” *New Journal of Botany* 5 (2015): 13-25
- William D. Pearse, Mark W. Chase, Michael J. Crawley, Konrad Dolphin, Michael F. Fay, Jeffrey A. Joseph, Gary Powney, Chris D. Preston, Giovanni Rapacciuolo, David B. Roy & Andy Purvis, “Beyond the EDGE with EDAM: prioritising British plant species according to evolutionary distinctiveness, and accuracy and magnitude of decline,” *PLoS ONE* 10 (5) (2015): e0126524

Chapters in books

- Christopher D. Preston, “Derek Ratcliffe and the Atlantic bryophytes of Britain and Ireland,” in *Nature’s Conscience: the life and legacy of Derek Ratcliffe*, ed. Des B.A. Thompson, Hilary H. Birks & H. John B. Birks (Kings Lynn: Langford Press, 2015), 123-148

Reviews

- Christopher D. Preston, review of *Methodus Plantarum Nova: John Ray (1682)*, by S.A. Nimis, K. Tschantz Unroe and M.A. Vincent (translators), *Annals of Science* (2015). DOI: 10.1080/00033790.2015.1064601. <http://dx.doi.org/10.1080/00033790.2015.1064601>

Lectures, seminars and conferences

November 2014

- Christopher D. Preston, “Natural history on the move: John Ray’s continental travels, 1663–1666” (paper presented to Cabinet of Natural History, Cambridge, November 10, 2014)

September 2015

- Oli L. Pescott & Christopher D. Preston, “The ‘magnificent achievement’ of the BBS: the 2014 Atlas and its applications” (paper presented to British Bryological Society, Shrewsbury, September 5, 2015)

Jennifer Rampling

At Princeton, Jenny received two David A. Gardner ’69 Magic grants: the first for *Recreating Alchemical Experiments*, a two-year, interdisciplinary project to recreate medieval alchemical practices; the second, with Anthony Grafton, for *Knowledge in the Margins: Annotating the Winthrop Library, 1570-1730*, a project to edit early-modern marginalia in books belonging to the Winthrop family. She continued to edit the journal *Ambix* and to co-edit *Sources of Alchemy and Chemistry*, and also joined the editorial boards of the *BJHS* and *Early Science and Medicine*.

Publications

Articles in journals

Jennifer M. Rampling, 'Transmuting Sericon: Alchemy as "Practical Exegesis" in Early Modern England,' *Osiris* 29 (2014): 19-34.

Jennifer M. Rampling (transl.), Cristina Viano, 'Mixis and *diagnôsis*: Aristotle and the "Chemistry" of the Sublunary World,' *Ambix* 62 (2015): 203-214.

Reviews

Jennifer Rampling, 'Women at the Edge of Science,' review of *Daughters of Alchemy: Women and Scientific Culture in Early Modern Italy* by Meredith K. Ray, *Nature*, 520 (9 April 2015), 154-155.

Jennifer Rampling, review of *Animal, Vegetable, Mineral: How Eighteenth-Century Science Disrupted the Natural Order*, by Susannah Gibson, "Summer Books," *Nature*, 523 (30 July 2015), 530.

Lectures, seminars and conferences

November 2014

Jennifer Rampling, 'Alchemy between City and Cloister: Poetry, Blackmail, and Expertise in English Religious Houses' (History of Science Society Annual Meeting, Chicago)

June 2015

Jennifer Rampling, 'What is Mercury? Interpretation and Substitution in Alchemical Practice' (*Alchemy from Antiquity to Early Modernity*, National Hellenic Research Foundation/University of Athens)

July 2015

Jennifer Rampling, 'Between City and Cloister: The Place of Alchemy in Pre-Reformation England' (BSHS Annual Conference, Swansea)

Jennifer Rampling, 'Substituting Alchemy: The *quid pro quo* of Experimental Reconstruction' (*The Senses and the Methodology of Reconstruction*, MPIWG, Berlin)

September 2015

Jennifer Rampling, 'Paradise and the Purgation of Bodies in Medieval Alchemical Poetry' (*Medicine of Words: Literature, Medicine, and Theology in the Middle Ages*, St Anne's College, Oxford)

Nicky Reeves

Nicky is still the curator of scientific and medical history collections at The Hunterian, University of Glasgow.

Publications

Chapters in books

Nicky Reeves, "Maskelyne the Manager," in *Maskelyne: Astronomer Royal*, ed. Rebekah Higgitt (London: Robert Hale, 2014) pp. 97-123

Lectures, seminars and conferences

October 2014

Nicky Reeves, "Visible storage, visible labour?" (presentation at *Tales from the Crypt: Museum Storage and Meaning*, a workshop organised by the Indian-European Advanced Research Network (IEARN) Research Group on Museums and History, October 30-31, 2014, Victoria and Albert Museum, London)
<http://iearn.iea-nantes.fr/rtefiles/files/iearn-museum-storage-workshop-2014-report-copy.pdf>

September 2015

Nicky Reeves, "Contemporary Science in Museums" (Panellist, *Where Science and Society Meet*: University Museums Group and University Museums in Scotland joint conference, September 23-24, University of Durham)

Public Engagement and Impact

Nicky Reeves, "Playing with Museum Representations of 18th-Century American Encounters", *On Display*, October 25, 2014, <https://ondisplayblog.wordpress.com/2014/10/25/playing-with-museum-representations-of-18th-century-american-encounters/>

Nicky Reeves, "Destroyed Snowden Laptop: the Curatorial View", *The H Word*, April 03, 2015, <http://www.theguardian.com/science/the-h-word/2015/apr/03/destroyed-snowden-laptop-the-curatorial-view>

Martin Rudwick

My book *Earth's Deep History: How it was Discovered and Why it Matters* (2014) was awarded the Dingle Prize for 2015 by the British Society for the History of Science

Publications

Books

Martin J. S. Rudwick, *Earth's Deep History: How it was Discovered and Why it Matters* (Chicago: University of Chicago Press, 2014)

Lectures, seminars and conferences

October 2014

Martin Rudwick, "The King of Siluria: How the Marches came to be known to geologists everywhere" (lecture to the South-West Shropshire History and Archaeology Society, Bishop's Castle, Shropshire, 14 October 2014)

Martin Rudwick, "Fossils and History: Recollections across Two Cultures" (talk to 'Coffee with Scientists' group, Department of History and Philosophy of Science, University of Cambridge, 24 October 2014)

July 2015

Martin Rudwick, "Earth's Deep History" (lecture at annual conference of the British Society for the History of Science, University of Swansea, 3 July 2015, on acceptance of Dingle Prize)

Public Engagement and Impact

See above. The British Society for the History of Science awarded my book *Earth's Deep History: How it was Discovered and Why it Matters* (2014), the Dingle Prize for 2015, which is specifically for "the best book in the history of science ... which is accessible to a wide audience of non-specialists"; the book has been reviewed positively in general periodicals such as the *Times Literary Supplement* and the *London Review of Books*. I also gave a lecture to a local history society, open to the public, on a topic in the history of science of local interest.

Christine F. Salazar

As mentioned last year, I am currently working on a translation with commentary of book II of the *Tetrabibloi* of Aetius of Amida (6th century CE), as a Research Associate at the Humboldt-Universität, Berlin. This is within the project "The Transfer of Medical Knowledge in the Medical 'Encyclopaedias' of Late Antiquity", part of a so-called *SFB* (*Sonderforschungsbereich*, a cluster of about a dozen projects, "Episteme in Motion"). This post (which will end in July 2016) has now become 0.65, and at the moment I also have another 0.35 post for finishing the translation with commentary of Galen's *Prognosticon* Commentary, for the earlier Newcastle project. The head of both projects is Prof. Philip J. van der Eijk. (Both translations have been delayed by the enormous amount of administrative work that the Berlin job entails.)

One of my two students at the Medizinische Universität Wien (Vienna) has now graduated, and for the time being I am unable to take on any new students along with my other work.

Publications

Reviews

Christine F. Salazar, review of *Les médecins dans l'Occident romain (Péninsule Ibérique, Bretagne, Gaules, Germanies)* by B. Rémy, *Gnomon* 86 (2014): 467-469.

Christine F. Salazar, review of *Herbs and Healers from the Ancient Mediterranean through the Medieval West: Essays in Honor of John M. Riddle*, by A. Van Arsdall and T. Graham (eds), *Isis* 106.1 (2015): 159-160.

Christine F. Salazar, review of *The Archaeology of Medicine in the Greco-Roman World*, by P. A. Baker, *Journal of Roman Studies* (online: June 2015):
<http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=9731598&fileId=S0075435815000829>

Lectures, seminars and conferences

November 2014

Christine F. Salazar, "Galen's Commentary on Hippocrates' *Prognosticon*" (paper presented at the *Interpreting Galen* conference, Exeter, November 12-14, 2014).

June 2015

Christine F. Salazar, "Oribasius on preserving one's health by exercising – how to do it and why it works" (paper presented at the workshop: *Transferprozesse propositionalen und nicht-propositionalen Wissens in der Antike. Theorie – Übung – Praxis*. Freie Universität Berlin, 18 June 2015).

July 2015

Christine F. Salazar, “Aetius of Amida on the medical uses of earths and minerals – reception and transformation” (paper presented at the *CHAM International Conference, Knowledge Transfer and Cultural Exchanges*, Universidade Nova de Lisboa, Lisbon, Portugal, 15-18 July 2015).

September 2015

Christine F. Salazar, “Treating the commander – and everyone else; rank and survival” (paper presented at the *International Symposium Soldiers and Surgeons: Wounds of War and their Treatment from Prehistory to the Crusades*, Hainburg, Austria, 17-18 September 2015).

Public Engagement and Impact

Christine F. Salazar, “Treating the commander – and everyone else; rank and survival” (paper presented at the *International Symposium Soldiers and Surgeons: Wounds of War and their Treatment from Prehistory to the Crusades*, Hainburg, Austria, 17-18 September 2015). [= above] This was a keynote lecture and open to the public.

Simon Schaffer

Simon Schaffer was awarded the Caird Medal of the National Maritime Museum for 2015. During 2014-15 he completed tenure as principal investigator on the AHRC project *The Board of Longitude 1714-1828: science, innovation and empire in the Georgian world*, jointly with the National Maritime Museum, and as co-investigator on the AHRC project *Exploring traditions: sources for a global history of science*. Under the auspices of *Exploring traditions*, he co-organised an international conference at the Nehru Memorial Library in Delhi in December 2014. From October 2014 he supervises a Collaborative Doctoral project, held by Jenny Bulstrode, with the National Maritime Museum on “Instrumentation and the magnetic crusade”. In March 2015



he continued as Directeur d'Études invité at the École des Hautes Études en Sciences Sociales. In 2014 he joined the editorial board of the journal *History of Science*. He contributed to BBC Radio 4 “History of Ideas” in November 2014 (“Why are things beautiful?”) and in January 2015 (“What makes us human?”). In June 2015 he broadcast for BBC Radio 4 “Science Stories” (“Seeing is Believing: the Leviathan of Parsonstown”). In November 2014 he gave the inaugural STS Haldane Lecture at UCL, in January 2015 he delivered the Swedenborg Birthday lecture in London, and in June 2015 was a plenary lecturer at the International Conference of Historical Geographers. In 2014-15 he acted as chair of the Board of HPS and Senior Examiner of HPS Part 1B.

Publications

Articles in journals

Simon Schaffer, "Chronometers, Charts, Charisma: On Histories of Longitude," *Science Museum Group Journal* 2 (2014) [dx.doi.org/10.15180/140203](https://doi.org/10.15180/140203)

Simon Schaffer, "Fontenelle's Newton and the Uses of Genius," *L'Esprit Créateur* 55 (2015): 48-61

Simon Schaffer, "Les Cérémonies de la Mesure: Repenser l'Histoire Mondiale des Sciences," *Annales: Histoire Sciences Sociales* 70 (2015): 409-35

Lectures, seminars and conferences

October 2014

Simon Schaffer, "Longitude and empire" (paper presented at Science and Empire Study Day, National Maritime Museum, 18 October 2014)

Simon Schaffer, "Why trust public experiments?" (Paper presented at Trinity College Cambridge Science Society, 28 October 2014)

November 2014

Simon Schaffer, commentary on Peter Galison, "Science, secrecy and the public self" (Tanner Lectures, Clare Hall, Cambridge, 12-13 November 2014)

Simon Schaffer, "Mutability, mobility and meteorites: on some material cultures of the sciences" (First STS Haldane Lecture, UCL, 20 November 2014)

December 2014

Simon Schaffer, co-organiser of conference on "Bodies, Objects and Knowledge from the Age of Empire: Global Histories and Beyond" and plenary lecture "The Silent Trade: beyond global histories" (Nehru Memorial Library, Delhi, 16-17 December 2014)

Simon Schaffer, "Approaches to the Study of the Sciences' Past" (Presidency University, Kolkata, 19 December 2014)

Simon Schaffer, "Enlightenment Automata and Disciplinary Negotiations" (Centre for Studies in Social Sciences, Kolkata, 20 December 2014)

January 2015

Simon Schaffer, "Swedenborg's Lunars" (Swedenborg Society, 24 January 2015)

February 2015

Simon Schaffer, "L'Astrophysique, les Observatoires Coloniaux et la Pluralité des Mondes" (Archives Henri Poincaré, Université de Lorraine, 4 February 2015)

Simon Schaffer, "Isaac Milner and his Times" (Queens' College Cambridge)

Simon Schaffer, "Histories of science" (European University Institute, Department of History)

March 2015

Simon Schaffer, "Faits accomplis à la fin de l'Âge des Lumières" (Historiographie des Lumières, EHESS, 6 March 2015)

Simon Schaffer, “L’orientalisme écossais et les usages de l’astronomie” (Centre Koyré, EHESS, 10 March 2015)

Simon Schaffer, “L’astronomie et l’Empire Britannique” (Institut de l’Histoire Moderne et Contemporaine, 12 March 2015)

Simon Schaffer, “The Cavendish and Victorian Cambridge: founding a laboratory, finding a role” (Whipple Museum, Cambridge Science Festival, 16 March 2015)

Simon Schaffer, “Régimes de savoir et les voyageurs scientifiques au 18e siècle” (Centre Koyré, EHESS, 24 March 2015)

Simon Schaffer, “Cosmologies de circulation et l’agronomie des lumières” (Conference on “Régimes de circulation et construction du savoir XVIIe – XVIIIe siècles”, Collège de France, 25 March 2015)

Simon Schaffer, “Politics of science” (SPEAP, Sciences Po, Paris, 26 March 2015)

Simon Schaffer, “Les cérémonies de la mesure” (Conference on Expérience-Limite, Université de Paris-Ouest-Nanterre, 27 March 2015)

April 2015

Simon Schaffer, “Digital Longitude” (National Maritime Museum, Greenwich, 23 April 2015)

Simon Schaffer, closing remarks, Conference “On being the right size: science, technology and scale” (STS, UCL, 29 April 2015)

May 2015

Simon Schaffer, commentary on Sanjay Subrahmanyam, “One Asia or many? Reflections from connected history” (Modern Asian Studies Lecture, Trinity College Cambridge, 1 May 2015)

Simon Schaffer, “La machine à voyager: colonialisme et temporalité” (Conference on “Les techniques du faire croire”, EHESS, Paris, 29 May 2015)

June 2015

Simon Schaffer, “The silent trade: reveries of global science” (Conference on “Dreaming of Health and Science in Africa: Aesthetics, Affects, Politics”, Hinxton Hall, 13 June 2015)

Simon Schaffer, “Soft matter and mobile objects” (Conference on “Objects in Motion: material cultures in transition”. CRASSH, 20 June 2015)

July 2015

Simon Schaffer, “The Manchurian automaton” (Conference on “Brainwash: history, cinema and the psy professions”, Birkbeck, University of London, 4 July 2015)

Simon Schaffer, “Astronomy at the Imperial Meridian”, plenary lecture (International Conference of Historical Geographers, Royal Geographical Society, 9 July 2015)

Anne Secord

Lectures, seminars and conferences

May 2015

Anne Secord, “Containing the World: Boxes, Books, and Botany in late C18th and C19th Britain” (paper presented in the session on “Containing Things” at the “Things that Matter, 1400–1900” seminar, CRASSH, University of Cambridge, May 6, 2015)

Jim Secord

For his teaching over many years, Jim Secord was awarded a Pilkington Prize from the University of Cambridge. He also received the Founder's Medal of the Society for the History of Natural History for lifetime contributions to the history of natural history. His book, *Visions of Science*, was short-listed for the best book prize of the British Society for Literature and Science, and for the Dingle Prize of the British Society for the History of Science, which is awarded every two years to a book aimed at reach a non-specialist readership. As Head of Department until 1 September 2015, he served on a variety of University committees, and also chaired the Board of Gender Studies.

Publications

Books

James A. Secord, *Visions of Science: Books and Readers at the Dawn of the Victorian Age* (Chicago: University of Chicago Press, 2014), xix + 306 pp. (the UK edition was published earlier in the year by Oxford University Press.)

Edited works

Frederick Burkhardt, James A. Secord et al., *The Correspondence of Charles Darwin* (Cambridge: Cambridge University Press, 2014), vol. 22.

Lectures, seminars and conferences

October 2014

Response to Felix Driver, 'The Albums of a Victorian Naval Surgeon', Global Science Research Group seminar, CRASSH, Cambridge.

November 2014

Response to magicians Rhys Morgan and Robert West, Public History seminar, Sidney Sussex College, Cambridge.

May 2015

Opening plenary address at conference 'Perish or Publish', Royal Society of London, London.

June 2015

Interviewed for 'The Bone Wars', opening episode of new series 'Science Stories, BBC Radio 4.

July 2015

Summer school on Victorian science, German Historical Institute, London.

Andreas Sommer

In August 2015 I was offered a book contract by Stanford University Press for my study *Psychical Research and the Formation of Modern Psychology*.

Publications

Edited works

Andreas Sommer (ed.), 'Psychical Research in the History of Science and Medicine'. Guest-edited special section, *Studies in History and Philosophy of Biological and Biomedical Sciences* 48 (2014): 38-111.

Articles in journals

Andreas Sommer, Psychical research in the history and philosophy of science. An introduction and review. *Studies in History and Philosophy of Biological and Biomedical Sciences* 48 (2014): 38-45

Lectures, seminars and conferences

December 2014

Andreas Sommer, "Geisterglaube und Wissenschaft" (invited guest lecture, University of Basel, December 16, 2014).

April 2015

Andreas Sommer, "Standards of evidence and the reception of unorthodox science. A fundamental challenge for integrated HPS?" (paper presented at the annual meeting of the Integrated History and Philosophy of Science Workshop, University of Durham, April 17, 2015).

Andreas Sommer, "The last Romantic? Carl du Prel (1839-1899) and the Formation of German Experimental Psychology" (invited lecture, Department of Philosophy and History of Science, Charles University, Prague, Czech Republic, April 24, 2015).

Andreas Sommer, "Histories of Science and the Occult: A Methodological and Historiographical Challenge" (invited lecture, University of Pardubice, Czech Republic, April 27, 2015).

July 2015

Andreas Sommer, "Science versus Superstition? Problems in the Historiography of Psychical Research" (paper presented at the annual conference of the British Society for the History of Science, University of Swansea, July 4, 2015).

September 2015

Andreas Sommer, "Science vs. Spirits? New Insights from the History of Psychology" (invited lecture, Scottish Society for Psychical Research, University of Glasgow, September 3, 2015).

Public Engagement and Impact

October 2014

Andreas Sommer, "Free Access to Studies in History and Philosophy of Science C Special Section, 'Psychical Research in the History of Science and Medicine'" (blog post, 24 October, 2014, <http://forbiddenhistories.com/2014/10/24/free-access-to-studies-in-history-and-philosophy-of-science-c-special-section-psychical-research-in-the-history-of-science-and-medicine>).

November 2014 to January 2015

History advisor on upcoming BBC World drama, *The Living and the Dead*.

February 2015

Andreas Sommer, "Temple Medicine, Oracles and the Making of Modernity: The Ancient Greek Occult in Anthropology and Psychology" (blog post, 23 February, 2015, <http://forbiddenhistories.com/2015/02/23/temple-medicine-oracles-and-the-making-of-modernity-the-ancient-greek-occult-in-anthropology-and-psychology/>).

March 2015

Andreas Sommer, "Carl Gustav Jung and the Clairvoyant, Mrs. Fäbber" (blog post, 29 March, 2015, <http://forbiddenhistories.com/2015/03/29/carl-gustav-jung-and-the-clairvoyant-mrs-fasler/>).

June 2015

Andreas Sommer, "The Occult Roots of Modern Psychology" (invited lecture. York Festival of Ideas: Secrets and Discoveries, University of York, June 13, 2015).

Andreas Sommer, "Reincarnation Research and Myths of Scientific Practice" (blog post, 25 June, 2015, <http://forbiddenhistories.com/2015/06/25/reincarnation-research-and-myths-of-scientific-practice/>).

August 2015

Andreas Sommer, "It's Happening: 'Psychical Research and the Formation of Modern Psychology'" (blog post, 21 August, 2015, <http://forbiddenhistories.com/2015/08/21/its-happening-psychical-research-and-the-formation-of-modern-psychology/>).

September 2015

Andreas Sommer, "Two Years of 'Forbidden Histories'" (blog post, 14 September, 2015, <http://forbiddenhistories.com/2015/09/14/two-years-of-forbidden-histories/>).

Eran Tal

This year I have been awarded a Vice-Chancellor's Fellowship at the University of Sheffield, which will pay my salary for three years (2016-2019) along with £10,000 in research expenses.

I have co-organized The Making of Measurement, an international conference held at CRASSH, University of Cambridge on July 23-24 (along with Hasok Chang and Daniel Mitchell).

I have been awarded a British Society for the Philosophy of Science Conference Grant worth £1,000 for the organization of the above conference.

Publications

Articles in journals

Eran Tal, "Measurement in Science", *Stanford Encyclopedia of Philosophy* (2015).

(<http://plato.stanford.edu/entries/measurement-science/>)

Eran Tal, "Making Time: A Study in the Epistemology of Measurement," *British Journal for the Philosophy of Science* (2014) (<http://doi.org/10.1093/bjps/axu037>).

Lectures, seminars and conferences

November 2014

Eran Tal, "Measurement, Models and Coherence" (paper presented at the meeting of the Philosophy of Science Association, Chicago, November 2014)

December 2014

Eran Tal, "Making Measurement Data into Scientific Evidence" (paper presented at What Is Data-Intensive Science? a workshop at the Exeter Centre for the Study of the Life Sciences, December 2014)

January 2015

Eran Tal, "Making Time: A Study in the Epistemology of Standardization" (paper presented at the Department of Philosophy, University of Edinburgh, January 2015)

February 2015

Eran Tal, "The Shifting Economies of Measurement Uncertainty" (paper presented at the HPS Departmental Seminar, University of Cambridge, February 2015)

April 2015

Eran Tal, "A Coherentist Account of Measurement" (paper presented to the Department of Philosophy at the University of Sheffield, April 2015)

May 2015

Eran Tal, "The Shifting Economies of Measurement Uncertainty" (paper presented at the Seminar in Science and Values, Centre for Humanities Engaging Science and Society (CHESS), Durham University, May 2015)

July 2015

Co-organizer of *The Making of Measurement*, an international conference held at CRASSH, University of Cambridge on July 23-24 (along with Hasok Chang and Daniel Mitchell).

Public Engagement and Impact

Eran Tal, "Making Time: A Study in the Epistemology of Standardization", paper presented at the Department of Philosophy, University of Edinburgh, January 2015 with a video made freely available online at <https://www.youtube.com/watch?v=q3OXd7mnYJI>

Economies of Uncertainty, my current research project, has a dedicated webpage with an exposition of the topic aimed at lay readers: <http://people.ds.cam.ac.uk/et382/>

Audio recordings of the three keynote lectures of *The Making of Measurement* are freely available online at <http://upload.sms.cam.ac.uk/collection/2036103>

The Making of Measurement conference Twitter feed is freely available online at <https://twitter.com/hashtag/crasshmeasure>

Eran Tal, “Measurement in Science”, *Stanford Encyclopedia of Philosophy* (2015). Paper published with open access at <http://plato.stanford.edu/entries/measurement-science/>

Liba Taub

Liba Taub is Director and Curator of the Whipple Museum of the History of Science, and Professor of History and Philosophy of Science. She is a Fellow of Newnham College, where she is Director of Studies in HPS; she is also Director of Studies at Trinity Hall. During 2014 she served as Goal Group Co-Leader (Meetings/Networking) for the History of Science Society, as it developed its new Strategic Plan. In 2014 she completed her long-term service as a member of the Beirat of the Deutsches Museum (Munich). She continues to serve on the UK Spoliation Advisory Panel, as well as numerous University and College committees.

Publications

Articles in journals

Emma Perkins and Liba Taub, "'Perhaps irrelevant': the iconography of Tycho Brahe's small brass quadrant" *Iconography of Scientific Instruments*, thematic issue of *Nuncius: Journal of the Material and Visual History of Science* 30 (2015), 9–36.

Chapters in books

Liba Taub, "'Problematising' the *Problems*: The *Problemata* in relation to other question-and-answer texts", in R. Mayhew (ed.), *The Aristotelian Problemata: Philosophical and Scientific Investigations*, Leiden: Brill, 2015, 413–36.

Reviews

Liba Taub, 'Manilius Elucidated, Forgotten Stars: Rediscovering Manilius' *Astronomica*, ed. Steven J. Green and Katharina Volk, *Journal for the History of Astronomy* 44 (2013): 368.

Lectures, seminars and conferences

April 2015

Liba Taub, “Anchoring innovation in the history and historiography of ancient science: Innovation and Tradition” (paper presented at the OIKOS Workshop on Ancient Science, Medicine and Technology, Radboud Universiteit Nijmegen, April 24, 2015)

Anke Timmermann

Anke Timmermann is an antiquarian bookseller at Bernard Quaritch Ltd. (London), historian of alchemy and medicine, and Affiliated Research Scholar in the Department of History and Philosophy of Science at Cambridge. This year Anke continued to research and publish on commenced during her Munby Fellowship in Bibliography (2013-2014). She is a member of the Bibliographical Society and Affiliated Scholar at the Gabriele Possanner Institute for Interdisciplinary Research, as well as a peer reviewer for key journals on medieval and early modern history and history of science.

Articles in journals

Anke Timmermann, "Alchemy in Cambridge. An Annotated Catalogue of Alchemical Texts and Illustrations in Cambridge Repositories," *Nuncius* 30 (2015): 345-511.

Chapters in books

Anke Timmermann, "Prescriptions of alchemy: Austrian medical doctors and their alchemical manuscripts," in *Bridging Traditions: Alchemy, Chemistry, and Paracelsian Practices in the Early Modern Era: Essays in Honor of Allen G. Debus*, ed. B. Moran et al. (Kirkville: Truman State University Press, 2015), 159-185.

Anke Timmermann, "Anleitung zum gesunden Wissen: Medizin und Alchemie in Handschriften der frühen Universität Wien," in *Wien 1365: Eine Universität entsteht*, eds H. Rosenberg and M. V. Schwarz (Vienna: Christian Brandstätter Verlag, 2015), 216-229.

[English version: "Healthy Knowledge: The written legacy of medicine and alchemy at the early University of Vienna"]

Anke Timmermann, "Die Grenzen der Wissenschaft: Medico-alchemische Schriften im Wien des 15. und 16. Jahrhunderts als historiographische Herausforderung," in *Artes – Artisten – Wissenschaft: Die Universität Wien im Spätmittelalter und Humanismus*, ed. Thomas Maisel et al. (Vienna: Praesens, 2015), 243-277.

Anke Timmermann, "Ungereimtes um Sol und Luna: Die Prosarezepte des Cod. 3001 der Österreichischen Nationalbibliothek," in *Minera Discipulorum: Vorstösse in das Fachschrifttum der frühen Neuzeit*, eds Laura Balbiani and Kathrin Pfister (Heidelberg: Mattes-Verlag, 2014), 279-299.

Reviews

Anke Timmermann, review of *Art and Alchemy: The Mystery of Transformation*, exhibition at Düsseldorf, Museum Kunstpalast, 5 April–10 August 2014, *Renaissance Studies* 29 (2015), 459-465.

Anke Timmermann, review of *Manuscripts chemica in Quarto. Universitätsbibliothek Kassel* by Hartmut Broszinski, *Ambix* 61 (2014), 412-413.

Lectures, seminars and conferences

October 2014

Anke Timmermann, "Bottled Knowledge: Drawings of flasks and vessels in alchemical manuscripts" (paper presented at the Wellcome Institute Premodern Seminar, London)

Anke Timmermann, "Science Before 1650" (with Catherine Eagleton and Liba Taub) (Primary Source at HPS, Cambridge)

January 2015

Anke Timmermann, “Colour me alchemical, or: form, execution and function in alchemical illustrations” (paper presented at the Departmental Seminar, Department of History and Philosophy of Science, University of Cambridge)

April 2015

Anke Timmermann, “Alchemy, Science and the Visualisation of Knowledge in Manuscripts in the 15th and 16th centuries” (Graham Pollard Memorial Lecture, presented to the Bibliographical Society, London)

July 2015

Anke Timmermann, “Texte, Bilder und Objekte: Die Geschichtsschreibung der Alchemie und ihre Probleme” (paper presented at the conference ‘Alchemie,’ Halle, Germany)

Public Engagement and Impact

Consultant, exhibition ‘Begreifen der Schöpfung’, based on the archaeological find of an alchemical laboratory of the 16th century (Landesamt für Archäologie/Landesmuseum für Vorgeschichte Sachsen-Anhalt, Halle, Germany, 2015-2016)

Interview (‘English alchemists’) in TV documentary ‘Enquête d'ailleurs’ (episode on alchemy), interviewer Philippe Charlier, producer Christophe Killian. Screened on arte, September 17, 2015, <https://www.youtube.com/watch?v=NtrkidjWKy4>

Laurence Totelin

This year, I was on a research leave, which has proved most productive. As part of an inter-disciplinary team, I was awarded £18,450 by ISSF Wellcome, Cardiff University, for a project entitled ‘Nain, Mam and Me: Infant Feeding in Wales, Social History and Modern Practices’. I co-organised a conference on ‘Technologies of Everyday Life in Ancient Greece’ with Tracey Rihll at Swansea University. The edited book *Addressing Difficult Topics in the Classics Classroom*, to which I contributed, was awarded the first ‘Teaching Literature Book Award’, awarded by The Idaho State University Department of English and Philosophy. I was one of the judges for the Medical History William Bynum Prize 2014. I also became one of the editors of the international academic blog, The Recipes Project.

Publications

Articles in journals

Laurence M.V. Totelin, “When Foods become Remedies in ancient Greece: the curious Case of Garlic and other Substances,” *Journal of Ethnopharmacology* 167 (2015): 30-37.

Chapters in books

Laurence M.V. Totelin, “L’odeur des autres: femmes et odeur à l’intersection de la pratique hippocratique et de la pratique religieuse,” in *Hippocrate et les hippocratismes : médecine, religion, société*, ed. Jacques Jouanna and Michel Zinz (Paris : Académies des Inscriptions et Belles Lettres, 2015), 83-98.

Laurence M.V. Totelin, “Smell as Sign and Cure in ancient Medicine,” ed. Mark Bradley (London: Routledge, 2014), 17-29.

Patty Baker, Helen King and Laurence M.V. Totelin, "Teaching ancient Medicine: the Issues of Abortion," in *From Abortion to Pederasty: Addressing Difficult Topics in the Classics Classroom*, ed. Nancy S. Rabinowitz and Fiona McHardy (Columbus, Ohio: the Ohio State University Press, 2014), 71-91.

Reviews

Laurence M.V. Totelin, review of *Greek Medicine from Hippocrates to Galen*, by Jacques Jouanna, *Isis* 105, 2014, 206.

Laurence M.V. Totelin, review of *Herbs and Healers from the ancient Mediterranean through the medieval West: Essays in Honor of John M. Riddle*, by Anne Van Arsdaal and Timothy Grahma (eds.), *Social History of Medicine* 27, 2014, 165-166.

Lectures, seminars and conferences

October 2014

Laurence M.V. Totelin, "Metamorphosing narratives: plant metamorphosis in poetry and natural sciences from Ovid and Pliny to Goethe" (paper presented at Kyknos conference 2014, Swansea University, October 18, 2014)

November 2014

Laurence M.V. Totelin, "Because they are worth it: Bloom of Youth and other wonderful ancient Drugs" (paper presented at the departmental seminar, Classics Department, University of Glasgow, November 2014)

Laurence M.V. Totelin, "Retail Therapy: Selling and Buying Drugs in the ancient World" (paper presented at the Pre-modern medicine series, Wellcome Library, November 2014)

December 2014

Laurence M.V. Totelin, "Gone with the Wind: Laughter and the Audience of the Hippocratic Treatises" (paper presented at the Greek medical Texts and their Audience, Perception, Transmission, Reception, King's College London, December 13-14, 2014)

January 2015

Laurence M.V. Totelin, "Back to Cleopatra's Kitchen: what I have learnt Experimenting with ancient Medical and cosmetic Recipes" (paper presented at Remaking History: using Re-Enactment in historical Research and Engagement, Art Workers Guild, London, January 27, 2015)

April 2015

Laurence M.V. Totelin, "Crying over spilt Milk: Analogies between Tears and Milk in ancient Literature" (paper presented at the Classical Association 2015, University of Bristol, April 10-13, 2015)

May 2015

Laurence M.V. Totelin, "Easy Remedies – difficult Texts: the pseudo-Galenic Euporista" (paper presented at Pseudo-Galenic Texts and the Formation of the Galenic Corpus, Warburg Institute, May 14-15, 2015)

June 2015

Laurence M.V. Totelin, “Castoreum or the Testicle of the Istrian Beaver: Ingredient Presentation Strategies in ancient Recipes” (paper presented at Towards a History of Epistemic Genres: the Textbook, the Commentary, the Case and the Recipe in the Making of medical Knowledge, Max-Planck Institut für Wissenschaftsgeschichte, Berlin, June 26-17, 2015)

July 2015

Laurence M.V. Totelin, “Baah baah black Sheep, have you any Wool: wool in ancient medicine” (paper presented at Technologies of Daily Life in Ancient Greece, Swansea University, July 2-3, 2015)

Public Engagement and Impact

Seven blog posts for the Recipes Project: <http://recipes.hypotheses.org/category/laurence-totelin>

Victoria Leonard and Laurence M.V. Totelin, “Megetia’s Jaw: a rare historical Insight into Hyperemesis

Gravidarum”, *Perceptions of Pregnancy Blog*, November 14, 2014,

<http://perceptionsofpregnancy.com/2014/11/17/megetias-jaw-a-rare-historical-insight-into-hyperemesis-gravidarum/>

Laurence M.V. Totelin, “Ancient Hangover Cures to get you through the New Year”, *The Conversation*, December 31, 2014, <https://theconversation.com/ancient-hangover-cures-to-get-you-through-the-new-year-35089>

Laurence M.V. Totelin, “Russian Whistleblower poisoned with Heartbreak Grass – an ancient Perspective”, *The Conversation*, May 19, 2015, <https://theconversation.com/russian-whistleblower-poisoned-with-heartbreak-grass-an-ancient-perspective-41930>

Day of activities with Welsh school children on ancient Greek Technologies of Daily Life, Swansea, July 2, 2015, <http://swwclassicalassociation.weebly.com/todl-technology-workshop.html>. See report at the Recipes Project: <http://recipes.hypotheses.org/6374>.

Exhibition on the history and sociology of infant feeding in Wales at the National Eisteddfod, Meifod, August 1-4, 2015, <http://www.cardiff.ac.uk/news/view/125898-major-presence-at-eisteddfod>

Rick Welch

Rick Welch is Dean of Arts and Sciences Emeritus and Professor of Biological Sciences at the University of Maryland, Baltimore County. He is a Resident Member of Clare Hall and an Affiliated Research Scholar in the Department of History and Philosophy of Science at Cambridge.

Rick Welch continues with a research project, funded by the Wellcome Trust, dealing with the lexical aspects of the history of physiology.

Publications

Chapters in books

G. Rickey Welch, “Cell Theory,” in *Discoveries in Modern Science: Exploration, Invention, Technology*, Vol. 1, ed. James Trefil (Farmington Hills MI: Macmillan, 2015), 158-161. [Invited encyclopedia entry]

Paul White

Publications

Edited works

Paul White et al. eds., *The Correspondence of Charles Darwin*, vol. 22 (Cambridge: Cambridge University Press, 2015)

Lectures, seminars and conferences

October 2014

Paul White, “The Blush of Love”, Emotional Bodies Conference, Geneva

Paul White, “The Evolution of the Blush”, English Department, Birkbeck College, London

July 2015

Paul White, “Darwinian Sympathy”, Empathy workshop, HPS

Paul White, “Modelling the Blush”, Arts and Feeling Conference, Birkbeck College

Public Engagement and Impact

Paul White, “What Darwin Believed”, Science Festival, Christ’s College, Cambridge, March 14, 2015

Paul White, “Darwin and the Evolution of Emotion”, Royal Society of London, September 19, 2015

Catherine Wilson

Publications

Articles in journals

‘The Doors of Perception and the Artist Within,’ *Proceedings of the Aristotelian Society Supplementary Volume*, 89 (2015): 1-19.

Chapters in books

‘Aesthetic Appreciation of Nature in Early Modern Science,’ in *Vision and its Instruments in Early Modern Europe*, ed. Alina Payne, State College, Penn State University Press, 2015: 49-65.

‘What was Kant’s Critical Philosophy Critical Of?’ in *Conflicting Values of Inquiry: Ideologies of Epistemology in Early Modern Europe*, ed. T. Demeter, K. Murphy, and C. Zittel, Leiden: Brill, 2014.

Lectures, seminars and conferences

October 2014

Catherine Wilson, ‘The Living Individual: Leibniz and Buffon’ (paper presented at a conference on the 300th anniversary of Leibniz’s ‘Monadologie’ Hanover, Germany).

November 2014

Catherine Wilson, 'Managing Expectations: Locke on Moral Motivation' (keynote presented at the Dutch Research School of Philosophy annual conference, Nijmegen).

December 2014

Catherine Wilson, 'Managing Expectations: Locke on Moral Motivation' (paper presented at the Royal Institute of Philosophy, London).

January 2015

Catherine Wilson, 'Managing Expectations: Locke on Moral Motivation' (paper presented at Departmental Colloquium, Leeds University).

April 2015

Catherine Wilson, 'Experimental and Speculative Revisited: What was Behind the Rejection of Hypotheses?' (Plenary lecture for the Integrated History and Philosophy of Science annual conference, Durham University).

Catherine Wilson, 'From the Biological Self to Psychological Self,' (paper for Departmental Seminar History and Philosophy of Science, Cambridge University).

Catherine Wilson, 'Hume and Materialism,' (paper for Departmental Seminar, Philosophy, Sheffield University).

May 2015

Catherine Wilson, 'Natural Law and the Laws of Nature' (paper for Workshop on Natural Law, European University Institute, Florence, Italy).

June 2015

Catherine Wilson, 'The 'Hard Problem' of Consciousness: Scientific Explanation and Philosophical Ineffability,' (paper for workshop in the Philosophy of Science, Univ. of Bergen, Bergen, Norway).

Catherine Wilson, 'The Concept of 'the Organism' in the Philosophy of Biology,' (paper for Workshop on Organisms, University of Paris I, Paris, France).

Catherine Wilson, 'Kant's Teleology of Living Nature' (paper for Kant and the Laws of Nature Conference), Edinburgh University.

July 2015

Catherine Wilson, 'The Doors of Perception and the Artist Within,' (Presidential Address, Joint Session of the Aristotelian and Mind Associations, Warwick University)

Public Engagement and Impact

Catherine Wilson, Letter 'Women in Philosophy,' *TLS* July 2015

Daniel C.S. Wilson

I was appointed to a Research Associate position at CRASSH on the ‘Technology & Democracy’ project, jointly led by the political scientist David Runciman and the engineer John Naughton, which will run until 2017.

Publications

Articles in journals

Daniel C S. Wilson, “Arnold Toynbee and the Industrial Revolution: The Science of History, Political Economy and the Machine Past,” *History and Memory* 26.2 (2014): 133-161.

Daniel C S. Wilson, “J.A. Hobson and the Machinery Question,” *Journal of British Studies*, 54.2 (2015): 377-405.

John Young

Publications

Articles in journals

Michael Hawkins, Robert Ralley and John Young, 'A Medical Panorama: the Casebooks Project', *Book 2.0* 4 (1 + 2) (2014): 61-69

Lectures, seminars and conferences

July 2015

Joanne Edge and John Young, "Networks of Health and Healing" (paper presented at the conference ‘Social networks 1450–1850’, University of Sheffield, 29 July 2015)

Gabriella Zuccolin

Gabriella Zuccolin is Wellcome Trust Research Fellow, working on a project on the intersection of print culture, women's medicine and the role of vernacularisation in science, 1450–1600. She was appointed Research Associate at King’s College in October 2014. This year she has continued with lecturing and undergraduate supervision for Part II, Paper 2 (Early Medicine).

Publications

Reviews

Gabriella Zuccolin, review of the book *Médecine et religion: Collaborations, compétitions, conflits, XII-XX siècle*, (Rome: École Française de Rome, 2013), by Maria Pia Donato et al., *Isis. Journal of the History of Science Society*, 106.1 (2015), 210-12.

Lectures, seminars and conferences

February 2015

Gabriella Zuccolin, “A 15th Century Physician and its Bilingual Production: Michele Savonarola as Self-Translator” (paper presented at the seminar series Multilingualism and Exchange in the Ancient and Medieval World, CRASSH, University of Cambridge)

April 2015

Gabriella Zuccolin, “Teoria della generazione nel Medioevo: aspetti filosofici, teologici, scientifici e medico-terapeutici” (A series of three lectures for the Annual History of Medieval Philosophy Seminar Series, University of Pavia, Italy, given on April 7, 8 and 10, 2015).

Public Engagement and Impact

Gabriella Zuccolin, “Spontaneous Bleeding, Health and the Humoral Economy of Bodies in Pre-modern Medicine” (Talk presented at The Pint of Science Festival - session on Medicine from Superstition to Scientific Reason, Cambridge, May 20, 2015).

Seminar Programmes

Michaelmas Term 2014

Seminars

Departmental Seminars

Seminars are held on **Thursdays from 4.30 to 6.00pm in Seminar Room 2**, Department of History and Philosophy of Science, Free School Lane, Cambridge. There is tea beforehand from 4pm in Seminar Room 1. Organised by Richard Staley.

16 October **Jesse Olszynko-Gryn (HPS, Cambridge)**

Pregnancy testing before DIY: rethinking the patient-doctor-laboratory relationship

23 October **Boris Jardine (HPS, Cambridge)**

Meso-science and modernism: work at the Royal Society Mond Laboratory, 1933–1972

30 October **Geoffrey Cantor (University College London)**

New perspectives on the Great Exhibition

6 November *No seminar*

12 and 13 November at 5pm, Robinson College Auditorium – *note unusual times and place*

Peter Galison (Harvard University) delivering the Clare Hall Tanner Lectures:

‘Science, secrecy and the private self’

Commentators include John Forrester and Simon Schaffer

20 November **Howard Hotson (University of Oxford)**

Age of iron, age of gold: the Thirty Years War, the German reformed diaspora, and the golden age of the Dutch universities

27 November **Brendan Clarke (University College London)**

Not-knowing about the aetiology of cervical cancer: a puzzle about absence of evidence

15 January 2015 at 4.30pm

Tenth Cambridge Wellcome Lecture in the History of Medicine

Rebecca Flemming (Classics, Cambridge)

One-seed, two-seed, three-seed? Reassessing ancient theories of generation

Seminar Programmes are sent out at the start of every term to the names on our mailing list. Please contact the Department if you would like to be added to or removed from the mailing list, or if you change your address.

Seminar information is also available at www.hps.cam.ac.uk/seminars

Department of History and Philosophy of Science, University of Cambridge
Free School Lane, Cambridge CB2 3RH

Abstracts

16 October **Jesse Olszynko-Gryn (HPS, Cambridge)**

Pregnancy testing before DIY: rethinking the patient-doctor-laboratory relationship

Pregnancy testing has never been easier. For countless women, the home pregnancy test, a ubiquitous diagnostic tool/retail product, mediates between the uncertainty of a missed period and the decision either to prepare for motherhood or to terminate an unwanted pregnancy. Yet, although home testing has transformed the experience of pregnancy as much as ultrasound or amniocentesis, very little is known about its history. This talk will tell the story of laboratory pregnancy testing in Britain before the first DIY tests of the 1970s. It will argue that the market for a then controversial diagnostic service was sustained less by imposed medicalisation or the managerial state than by the entrepreneurial testers and consumers who helped to create and maintain demand. It will also rethink the patient-doctor relationship by placing routine testing more centrally in our historical understanding of modern laboratory medicine.

23 October **Boris Jardine (HPS, Cambridge)**

Meso-science and modernism: work at the Royal Society Mond Laboratory, 1933–1972

In February 1933 the great and good of Cambridge physics gathered for the opening of the Royal Society Mond Laboratory, an ‘ultra-modern’ building in which, as Ernest Rutherford was at pains to point out, the atom would definitely not be split. But soon enough even the low-temperature work that the Mond was made for was scuppered by an international scandal: in 1934 Piotr Kapitza, the head of the lab, was detained by the Soviets and Rutherford had to fight to keep science and politics apart. This story is well known, but the Mond itself tends to get lost in the telling. So the first part of my talk consists in a close reading of the building: the site, the training of the architect and the nature of the work done there are key to its striking form, and its distinctive place in inter-war physics. My argument here, which has consequences for notions of scientific heritage and material culture, is that the Mond was itself a scientific instrument – all of its parts working together for the execution of a single experimental programme. After Kapitza left, the function of the building became ambiguous, yet through the work of two generations of scientists the Mond remained important as a site for experiment and also for the planning of research. The second half of my talk is taken up with this period. Here questions of scale become important, and I pursue two lines of inquiry: first, I describe the Mond as an intermediary stage in the development of Big Science; second, I show that it has a key role in the history of ‘meso-scale physics’ – a role that has much to do with the nature of the building and its (literal) place in the Cavendish Laboratory.

30 October **Geoffrey Cantor (University College London)**

New perspectives on the Great Exhibition

The Great Exhibition of 1851 is widely regarded as a major public event that has provided a common focus for scholars studying diverse aspects of 19th-century history. However, despite an extensive secondary literature the meaning of the Exhibition has proved elusive and research has concentrated on a few disparate areas to the neglect of many others. In gathering material for a recently-published documentary history of the Exhibition I became increasingly aware of the vast range of meanings that contemporaries attributed to it – scientific, technological, social, political, religious, etc. – while historians have added further perspectives. The problem of engaging the Exhibition is compounded by the extensive range of sources that it generated, some of which have been neglected by historians; in particular commentaries in the contemporary periodical literature and the accounts written by visitors. Thus, for example, in contrast to the narratives manufactured by the Exhibition’s organisers, visitors’ accounts show how individuals with different backgrounds and interests navigated the

Exhibition. Drawing on a variety of sources this paper will offer some new perspectives on the Exhibition and its significance for the history of the mid-19th century.

20 November **Howard Hotson (University of Oxford)**

Age of iron, age of gold: the Thirty Years War, the German reformed diaspora, and the golden age of the Dutch universities

The 17th century is characterised by two enormous ruptures. One is military: the overlapping series of protracted wars which range from the Baltic via central Europe and the Low Countries to the British Isles. The other is intellectual: the interconnected movements once confidently known as the scientific revolution and the birth of modern philosophy. Although each has attracted a vast historical literature, these two phenomena – one brutally concrete, the other seemingly disembodied – appear at first sight incommensurable, attract very different kinds of historians, and are rarely studied together. One point at which these two parallel historiographies intersect, however, is the university, an enduring institution which grounds the history of ideas firmly in time and space. This paper argues that the most celebrated chapter in the 17th-century history of European universities is unintelligible without reference to the endemic warfare of the period. Sketching the evidence in support of this statement serves to broach a larger thesis about the relationship between the military and intellectual histories of the 17th century, and to prompt some methodological reflections on the value of geography to intellectual historians.

27 November **Brendan Clarke (University College London)**

Not-knowing about the aetiology of cervical cancer: a puzzle about absence of evidence

What's the difference between *absence of evidence* and *evidence of absence*? This paper explores this question via a biomedical case that involved a protracted absence of evidence. Cervical cancer is now thought to be caused by infection with *human papillomavirus* (HPV). However, for the two decades between about 1965 and 1984, cervical cancer was thought to be caused by infection with an unrelated virus known as *herpes simplex virus* (HSV). From the first suggestion that HSV might cause cervical cancer, its causal role was thought to be highly plausible, largely because of the roles played by herpes viruses in causing cancers in animals. By analogy with these animal tumours, an extensive research programme developed around HSV that was predicated on investigating its (possible) aetiological role in cervical cancer. While this research led to many publications, few of them appeared to implicate HSV in the genesis of cancer of the cervix. Despite this, HSV remained by far the most plausible cause of cervical cancer to cancer-virus researchers at the time.

The aim of this paper is come to an understanding of this persistent absence of evidence in the context of recent research into agnotology – culturally induced ignorance or doubt. However, the emphasis in much of this work is firmly on ignorance as ‘something that is made, maintained, and manipulated’ (Proctor and Schiebinger 2008:8). Typical cases discussed in the agnotology literature – such as military classification of documents, or the doubt deliberately cast on the causal link between smoking and lung cancer – are characterised by the deliberate obscuring of knowledge by individuals or organisations. This is not so for cervical cancer, in which a persistent absence of knowledge seems to have been ignored, rather than manufactured. Here, I therefore explore an epistemic thesis concerning agnotology: ‘when should persistent absence of evidence make us think sceptically about a particular hypothesis?’

Cabinet of Natural History

This research seminar is concerned with all aspects of the history of natural history and the field and environmental sciences. Seminars are held on **Mondays at 1pm in Seminar Room 1**. You are welcome to bring your lunch with you. Organised by Margaret Carlyle.

- 13 October **Susannah Gibson (HPS, Cambridge)**
Jean André Peyssonnel and the coral island
- 20 October **Christof Dejung (History, Cambridge)**
Historical time, primitive peoples and the abyss of race: conceptions of temporality in
German anthropology and folklore studies (1850s–1930s)
- 27 October Cabinet Annual Fungus Hunt
- 3 November **Jane Wess (University of Edinburgh)**
The role of instruments in exploration: the RGS and its explorers, c.1830–1900
- 10 November **Christopher D. Preston (Centre for Ecology & Hydrology)**
Natural history on the move: John Ray's continental travels, 1663–1666
- 17 November **Emma Pyle (HPS, Cambridge)**
W.B. Carpenter and the wonder of microscopy
- 24 November **Victoria Pickering (Queen Mary University of London and Natural History Museum, London)**
Collecting natural history: Sloane's 'vegetable substances'
- 1 December **Alexi Baker (CRASSH and HPS, Cambridge)**
Jane Squire's early modern adventures: 'I see not why I should confine myself to needles, cards, and dice'

Twentieth Century Think Tank

Visual Arguments: Science on Film and other Media

The Twentieth Century Think Tank (TCTT) offers broad coverage of 20th- and 21st-century topics in the history, philosophy and sociology of science, technology and medicine. The regular programme of papers and discussions takes place on Thursdays over lunch.

Think Tank meetings are held on **Thursdays, 1–2pm in Seminar Room 2**. All welcome! Organised by Richard Staley.

- 30 October **Charlotte Bigg (Centre National de la Recherche Scientifique, Centre Alexandre Koyré, Paris)**
Brownian motion pictures
- 13 November **Peter Galison (Harvard University)**
Visual STS
- 20 November **Tim Boon (Science Museum, London)**
Performing and mediating science on television
- 27 November **David A. Kirby (University of Manchester)**
Indecent science: religion, science and movie censorship, 1930–1968

Early Medicine Seminars

Seminars are on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**. Tea and biscuits are available from 4.40pm. All welcome!

Organised by Lauren Kassell.

- 14 October **Margaret Pelling (University of Oxford)**
John Graunt and the health of children in mid-17th-century London
- 4 November **Sophie Page (University College London)**
Medicine and learned magic in the late middle ages
- 25 November **Jonathan Barry and Peter Elmer (University of Exeter)**
Patterns of medical practice in urban and rural England, c.1500–1720: a case-study of the South West

History of Modern Medicine and Biology Seminars

Seminars are on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**. Tea and biscuits are available from 4.40pm. All welcome!

Organised by Nick Hopwood and Helen Curry.

- 28 October **Joanna Radin (Yale University)**
Off the reservation: how indigenous bodies became big data
- 11 November **Carlos López Beltrán (UNAM, Mexico, visiting HPS)**
Mestizo genomics: race mixture, nation and science in Latin America
- 2 December **Stephen Mawdsley (Clare Hall, Cambridge)**
'Operation ouch': America's response to polio before a vaccine

Generation to Reproduction Seminars

These seminars, on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**, are funded by our Wellcome Trust strategic award in the history of medicine (www.reproduction.group.cam.ac.uk). Tea and biscuits are available from 4.40pm. All welcome!

Organised by Nick Hopwood and Lauren Kassell.

- 21 October **Cathy McClive (Durham University)**
Menstrual time and the blood of stigmata: Catherine Cadiere and Father Girard, an 18th-century menstrual cause célèbre
- 18 November **Claire Jones (King's College London)**
Under the covers? Commerce, condoms and consumers in Britain, 1860–1960

Seminars at CRASSH

Global Science

Seminars are held on **alternate Tuesdays, 12.00–2.00pm in Room SG1, Alison Richard Building, West Road**. Organised by James Poskett, James Hall and others.

Website: www.crassh.cam.ac.uk/programmes/global-science

- 21 October **Felix Driver (Royal Holloway University of London)**
Respondent: **Jim Secord (HPS, Cambridge)**
Material memories of travel and encounter: the albums of a Victorian naval surgeon
- 4 November **Zujaja Tauqeer (University of Oxford)**
Medical intervention and political autonomy on British India's hostile Afghan border
- 18 November **Branwyn Polykett (CRASSH, Cambridge)**
Respondent: **Emma Hunter (History, Cambridge)**
Scientific capacity building in East Africa: heads and hands in global science
- 2 December **Cam Sharp-Jones (University of Kent)**
Respondent: **Shinjini Das (CRASSH, Cambridge)**
Visualising difference: ethnographic imagery and the tribes of India, 1850–1900

Things that Matter, 1400–1900

Seminars are held on **alternate Wednesdays, 12.00–2.00pm in Room SG1, Alison Richard Building, West Road**. Organised by Margaret Carlyle, Michelle Wallis and others. Website:

www.crassh.cam.ac.uk/programmes/things

- 8 October **Jane Hamlett (Royal Holloway University of London)**
Alastair Owens (Queen Mary University of London)
Reading institutional and domestic things
- 22 October **Julia Poole (Fitzwilliam Museum and Wolfson College, Cambridge)**
Craig Cessford (Archaeology, Cambridge)
Household things
- 5 November **Simon Werrett (University College London)**
Haileigh Robertson (University of York)
Explosive things
- 19 November **Chris Wingfield (Museum of Archaeology and Anthropology, Cambridge)**
Leah Clark (Open University)
Collected things
- 3 December **Adam Smyth (University of Oxford)**
Nicholas Smith and Colin Clarkson (University Library, Cambridge)
Printing things

Graduate workshops and seminars

HPS History Workshop

Need help writing a tricky part of your argument? Need some fresh ideas and references? Or simply want to see how your early-career colleagues approach the writing process? The History Workshop is an informal setting to discuss our written works-in-progress on any area of the history of science, technology and medicine, and share feedback. A draft PhD chapter, article or conference paper will be circulated by email before each meeting. We'll then discuss it together over tea and biscuits at **5pm on alternate Wednesdays in Seminar Room 1**. Contact Andreas Sommer and/or Seb Falk if you are interested in sharing your work in this forum, or would like to be added to the mailing list.

- 15 October **Stephen A. Courtney (HPS, Cambridge)**
'Illuminating effects': visual culture and the exhibition of lighthouses in Victorian London
- 29 October **Sophie Ritson (University of Sydney)**
'Crackpots' and 'active researchers': the string wars, arXiv and the blogosphere
- 12 November **Timothy Rees Jones (HPS, Cambridge)**
Newton's chronology and the tradition of universal history
- 26 November **Steve Irish (HPS, Cambridge)**
Crystals and optics: Huygens and Wollaston

CamPoS

CamPoS (Cambridge Philosophy of Science) is a network of academics and students working in the philosophy of science in various parts of Cambridge, including the Department of History and Philosophy of Science and the Faculty of Philosophy. For further details of the composition and activities of CamPoS, see **www.camposgroup.org**. The Wednesday afternoon seminar series features current research by CamPoS members as well as visitors to Cambridge and scholars based in nearby institutions. If you are interested in presenting in the series, please contact Christopher Clarke. If you have any queries or suggestions for other activities that CamPoS could undertake, please contact Huw Price, Jeremy Butterfield or Hasok Chang. Seminars are held on **Wednesdays, 1.00–2.30pm in Seminar Room 2**.

- 15 October **Richard Pettigrew (University of Bristol)**
- 22 October **Christopher Clarke (HPS, Cambridge)**
- 29 October **Kim Sterelny (Australian National University)**
- 5 November *No seminar*
- 12 November **Adrian Boutel (HPS, Cambridge)**
- 19 November **Eleanor Knox (King's College London)**
- 26 November **Shyane Siriwardena (Philosophy, Cambridge)**
- 3 December **Alex Broadbent (University of Johannesburg)**

Science in Print: Understanding Book Production from the Sixteenth to the Nineteenth Centuries

A series of five sessions led by Roger Gaskell, Anna Jones and Jim Secord on **Tuesdays, 11am–12.30pm in the Whipple Old Library**, starting on 4 November.

Understanding how the book is made is vital to the study of its contents, helping to locate its economic and social context, its audience, and ultimately its historical significance. Using examples from the Whipple Library's rare book collections and the University Library's Historical Printing Collection, this workshop series will explore some bibliographical techniques to identify and describe the structure and production of printed material from the handpress (16th–18th centuries) and mechanized (19th century) periods, and consider the uses and abuses of online derivatives. Although the focus will be on scientific texts and illustrations, these sessions will be of interest to book historians in all disciplines, and all are welcome.

For further information and to book a place, please contact Anna Jones.

- 4 November Survey of the handpress period
- 11 November Book production in the handpress period and bibliographical analysis
- 18 November The technology of book production in the handpress period (*this session takes place in the Historical Printing Room at the University Library*)
- 25 November The production and analysis of images in handpress period books
- 2 December Book production in the 19th century

Aims and Methods of Histories of the Sciences

A series of six workshops led by Nick Jardine, with Hasok Chang and Cristina Chimisso, on **Mondays, 11am–12.30pm in Seminar Room 1**, starting on 27 October.

These six workshops are for discussion of the history, aims, methods and problems of the history of science. In the first Nick Jardine will give an overview of the origins of the discipline and its current problems and prospects. Topics to be discussed in subsequent meetings include H       Metzger and French historiography of the sciences (10 November, introduced by Cristina Chimisso, Open University) and the relations between history of science and philosophy of science (17 November, introduced by Hasok Chang). Suggestions for themes and readings for the remaining sessions will be welcome as will volunteers to introduce topics.

Graduate and Postdoc Training

Training workshops for the Department's graduate students and postdoctoral researchers are held throughout the academic year. A calendar of this term's events is on the back page; the full programme is at www.hps.cam.ac.uk/students/training.

Reading and discussion groups

Coffee with Scientists

The aim of this new group is to explore and enhance the interface between HPS and science. Many of us in HPS already have close engagements with science and scientists, but we do not often pull together our activities in those directions. We could benefit from more explicit discussions about the relationship between HPS and the sciences themselves, and from encouraging HPS-scholars and scientists to help each other's work. Many of our

graduate students and postdocs currently work in isolation from scientists; they may benefit from the stimulation of interactions with colleagues and mentors from various scientific disciplines (in Cambridge and elsewhere), which are difficult to include in our regular seminars and reading groups infused with standard HPS expectations, assumptions and customs.

During Michaelmas Term 2014 we will meet on **Fridays, 2.30–4.00pm in Seminar Room 2**. The following sessions have been confirmed, and more will be organised if possible. Further information and reading materials will be distributed through the email list of the group; please contact Hasok Chang if you would like to be included on the list.

24 October 'Fossils and history: recollections across two cultures'

In this session Professor **Martin Rudwick** makes a very welcome return to the HPS Department to discuss his career as a scientist and a historian of science.

14 November 'Rayleigh's re-determination of the ohm'

In this session we welcome Professor **E.A. (Ted) Davis**, Distinguished Research Fellow, Department of Materials Science and Metallurgy, who will discuss part of his ongoing work on the history of physics at the Cavendish Laboratory.

Nature and Culture Reading Group

This term, we will be reading selected chapters from *Value-Free Science: Ideals and Illusions?* (2007), edited by Harold Kincaid, John Dupré and Alison Wylie (Oxford University Press). Please contact Beth Hannon if you have any difficulty locating the readings.

Meetings will take place on **Tuesdays, 1.00–2.00pm in Seminar Room 1**. Everyone welcome!

14 October How Should Sociologists Study Social Problems? – Michael Root

21 October Coming to Terms with the Value(s) of Science: Insights from Feminist Science Scholarship – Lynn Hankinson and Allison Wylie

28 October Evaluating Scientists – Brad Wray

4 November Evidence and Value Freedom – Elliott Sober

Rejecting the Ideal of Value Free Science – Heather Douglas

11 November Is Logical Empiricism Committed to the Ideal of Value Free Science? – John Roberts

18 November Constructive Empiricism and the Role of Social Values in Science – Sherri Roush

25 November The Value Ladenness of Scientific Knowledge – Gerald Doppelt

2 December Contextualist Morals and Science – Harold Kincaid

History and Theory Reading Group

Paper Tools

Meetings take place **every other Friday, 2.30–4pm in Seminar Room 3**. Organised by Boris Jardine.

17 October 1. David Kaiser, 'Making tools travel: pedagogy and the transfer of skills in postwar theoretical physics', in David Kaiser (ed.), *Pedagogy and the Practice of Science* (Cambridge, MA: MIT Press, 2005), pp. 41–74

2. Ursula Klein, 'Paper Tools in Experimental Cultures', *Studies in History and Philosophy of Science* 32 (2001), pp. 265–302

Supplementary:

Andrew Warwick, 'A mathematical world on paper: written examinations in early 19th

century Cambridge', *Studies in History and Philosophy of Modern Physics* 29 (1998), 295–319

- 31 October 1. Lisa Gitelman, Introduction and Chapter 3 in *Paper Knowledge: Toward a Media History of Documents* (Durham, NC: Duke University Press, 2014)
Supplementary:
Markus Krajewski, *Paper Machines: About Cards and Catalogues, 1548–1929*, translated by Peter Krapp (Cambridge, MA: MIT Press, 2011)
- 14 November 1. Ben Kafka, 'Paperwork: the state of the discipline', *Book History* 12 (2009), pp. 340–53
2. Ann Blair, Chapters 1 and 2 in *Too Much to Know: Managing Scholarly Information before the Modern Age* (New Haven, CT: Yale University Press, 2010)
Supplementary:
Lisa Jardine and Anthony Grafton, "'Studied for Action": How Gabriel Harvey Read His Livy', *Past & Present* 129 (1990), pp. 30–78
Jeffrey Todd Knight, "'Furnished" for Action: Renaissance Books as Furniture', *Book History* 12 (2009), pp. 37–73
- 28 November 1. Nick Hopwood, Simon Schaffer and Jim Secord, 'Seriality and scientific objects in the nineteenth century', *History of Science* 48 (2010), pp. 251–85
2. James Delbourgo and Staffan Müller-Wille, 'Introduction: Listmania', *Isis* 103 (2012), pp. 710–15
Supplementary:
Papers in both special issues, especially Volker Hess and J. Andrew Mendelsohn, 'Case and Series: medical knowledge and paper technology 1600–1900', *History of Science* 48 (2010), pp. 287–314

Twentieth Century Reading Group

This term, we will explore the themes of science in film to complement talks given at the Twentieth Century Think Tank, which meets on alternate Thursdays. Readings will be made available in advance in our Whipple Library box.

Meetings are held on **Thursdays, 1.00–2.00pm in Seminar Room 3.**

Organised by Jesse Olszynko-Gryn, Dmitriy Myelnikov and Kathryn Schoefert.

- 9 October Introduced by **Jesse Olzynko-Gryn**
Oliver Gaycken, *Devices of Curiosity* (Oxford: Oxford University Press, forthcoming)
– Introduction
– Chapter 2, Juggling Flies and Gravid Plants: Percy Smith's Early Popular-Science Films
- 23 October Introduced by **Nick Hopwood**
Scott Curtis, *Shape of Spectatorship: Art, Science, and Early Science in Germany* (New York City: Columbia University Press, forthcoming)
– Introduction
– Chapter 1, Science's Cinematic Method: Motion Pictures and Scientific Research
- 4 December Introduced by **Helen Curry**
Janina Wellman, 'Science and Cinema', *Science in Context* 24:3 (2011), 311–328
Hannah Landecker, 'Creeping, Drinking, Dying: The Cinematic Portal and the Microscopic World of the Twentieth-Century Cell', *Science in Context* 24:3 (2011), 381–416

Science and Literature Reading Group

The Brain

This term features four sets of readings on cerebral themes from the past, present and future. For full reading lists please see the links available from the beginning of October on the HPS seminars website at www.hps.cam.ac.uk/seminars/slrgr.html; hard copies will also be made available in the reading group's boxfile in the Whipple Library.

We return to **Darwin College**, the original home of the Reading Group, for meetings on **Monday evenings from 7.30–9pm**. All are very welcome to join us!

Organised by Melanie Keene (Homerton) and Adrian Kent (DAMTP). To join the mailing list, email Melanie; for further updates and information please see our blog: www.sci-lit-reading-group.blogspot.com.

- 13 October Phrenological genres
- 3 November Cerebral forms
- 17 November Nervous states
- 1 December Beyond the brain

Kant Reading Group

In Michaelmas 2014 we will focus on the theory of aesthetics Kant developed in his *Critique of Judgment*. We will discuss issues arising from the text including the form and possibility of judgments of taste, the role of understanding and imagination in aesthetic experience, and the notions of art and genius. Interested undergraduates, graduates, researchers and faculty members are all welcome!

Meetings are on **Wednesdays, 11.00am–12.30pm in the Philosophy Board Room, Faculty of Philosophy, Sidgwick Site**.

Please contact Angela Breitenbach or Thomas Land for more information or if you would like to be added to the mailing list.

- 15 October Introduction to the *Critique of Judgment*, §§IV–VIII (5:179–94)
- 22 October Analytic of the Beautiful – First Moment, §§1–5 (5:203–11), and Second Moment, §§6–9 (5:211–9)
- 29 October Analytic of the Beautiful – Third Moment, §§10–17 (5:219–36)
- 5 November Analytic of the Beautiful – Fourth Moment, §§18–22 (5:236–40), and General Remark (5:240–4)
- 12 November Deduction of Pure Aesthetic Judgments, §§30–38 (5:279–291)
- 19 November Deduction of Pure Aesthetic Judgments, §§39–42 (5:291–303)
- 26 November Deduction of Pure Aesthetic Judgments, §§43–50 (5:303–320)
- 3 December TBC

Philosophy and History of Physics Reading Group

Organised by Daniel Mitchell, Hasok Chang and Jeremy Butterfield.

This year's meetings will have one common theme: measurement. We will investigate the development of physical measurements in recent centuries, paying attention to their epistemological significance, their institutional and social settings, and their relation to measurements in other sciences.

We will be discussing works in progress by various members of the group, as well as selected works by others. The year's activities will culminate in an international interdisciplinary conference on 'The Making of Measurement' held at CRASSH on 23–24 July 2015, organised by Daniel Mitchell, Eran Tal and Hasok Chang. The group will meet weekly at the usual time of **2.00–3.00pm on Tuesdays in Seminar Room 1**. Readings for the following meetings are confirmed, and the remainder will be determined in consultation with the wider group. Further information and reading materials will be distributed through the email list of the group; please contact Daniel Mitchell if you would like to be included on the list.

14 October Eran Tal, 'Measurement in Science', *Stanford Encyclopedia of Philosophy* (in press)

21 October Hasok Chang, 'Operationalism: Old Lessons and New Challenges' (draft)

AD HOC

The Cambridge branch of AD HOC (Association for the Discussion of the History of Chemistry) meets several times per term, on **Mondays, 5.00–6.30pm in Seminar Room 1**. Our activities are supported by a Subject Development Grant from SHAC (Society for the History of Alchemy and Chemistry).

In Michaelmas Term 2014 we will be focusing on the theme of **chemical bonds** through the ages. Each meeting will discuss a selection of key secondary and primary sources.

Our Michaelmas Term activities will be coordinated by Hasok Chang, Charissa Varma and Sophie Osiecki. For further details, readings, or to join our mailing list, please contact Sophie on adhochistory@gmail.com. The London branch of the group meets at UCL on a monthly basis; travel between the two branches is encouraged, and the SHAC grant provides travel bursaries for students and others with financial need.

13 October Affinity in the 18th century, discussion led by **Georgette Taylor (University College London)**

Readings:

Georgette Taylor, 'Tracing Influence in Small Steps: Richard Kirwan's Quantified Affinity Theory', *Ambix* 55 (2008), 209–231

Selections from Richard Kirwan

27 October Electrochemical notions of the chemical bond, discussion led by **Hasok Chang**

Readings:

Trevor Levere, *Affinity and Matter: Elements of Chemical Philosophy 1800–1865* (Oxford: Oxford University Press, 1971; Gordon and Breach reprint, 1993), ch. 2, 'Humphry Davy: Romantic and Dynamical Chemistry: Electrical Ideas about Affinity', 23–67

Selections from Humphry Davy

10 November Pre-quantum electronic theories of the chemical bond, discussion led by **Georgie Statham**

Readings:

Theodore Arabatzis, *Representing Electrons: A Biographical Approach to Theoretical Entities* (Chicago: University of Chicago Press, 2006), ch. 7, “‘How the Electrons Spend Their Leisure Time’: The Chemists’ Perspective”, 175–199

Selections from G.N. Lewis

24 November The chemical bond in quantum chemistry, discussion led by **Charissa Varma**

Readings:

Martha L. Harris, ‘Chemical Reductionism Revisited: Lewis, Pauling and the Physico-chemical Nature of the Chemical Bond’, *Studies in History and Philosophy of Science* 39 (2008), 78–90

Selections from Linus Pauling and Charles Coulson

Philosophy of Psychology Reading Group

This term we will be reading *The Emotional Construction of Morals* by Jesse Prinz. We meet on **Thursdays, 11am–12noon in Seminar Room 1**. Organised by Riana Betzler.

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| 9 October | Preamble: Naturalism and Hume’s Law
Chapter 1: Emotionism |
| 16 October | Chapter 2: Emotions: Non-moral and Moral |
| 23 October | Chapter 3: Sensibility Saved |
| 30 October | Chapter 4: Against Objectivity |
| 6 November | Chapter 5: Dining with Cannibals |
| 13 November | Chapter 6: The Genealogy of Morals |
| 20 November | Chapter 7: The Limits of Evolutionary Ethics |
| 27 November | Chapter 8: Moral Progress |

Language groups

Latin Therapy

Latin Therapy is an informal reading group. All levels of Latin (including beginners) are very welcome. We meet on **Fridays, 4.00–5.30pm in Seminar Room 3**, starting on 17 October, to translate and discuss a text from the history of science, technology or medicine. If a primary source is giving you grief, we’d love to help you make sense of it over tea and biscuits! Thus we provide a free translation service for the Department, and a means for members to brush up their skills.

More information can be found at our website: www.hps.cam.ac.uk/latintherapy. To be added to the mailing list, or to suggest a text, please contact Tillmann Taape or Natalie Lawrence.

Greek Therapy

Greek Therapy meets **every Wednesday during term time in Seminar Room 3 from 5.30 to 7pm**.

We are an informal group for beginners and for experienced readers of Greek seeking to brush up their skills – all levels are welcome. Sessions usually involve a basic grammar session at the beginning followed by reading through a more advanced text – this term we will be reading Plato’s dialogue *Euthydemus*. For more information or to be added to the mailing list, please email Liz Smith.

Graduate and Postdoc Training Programme: Calendar of events for Michaelmas Term 2014

See www.hps.cam.ac.uk/students/training for the full programme.

Date/time	Event	Notes
Wed 8 Oct, 2–5pm	Induction for MPhil and Part III students	
Wed 8 Oct, 12–5pm	Induction for new PhD students	
Thu 9 Oct, 4–6pm	Induction for second-year PhD students	
Thu 9 Oct, 4–6pm	Induction for late-stage PhD students and new postdocs	
Fri 10 Oct, 1–2pm	How do undergraduate supervisions work?	Required for new supervisors
Wed 15 Oct, 1–2.30	First CamPoS seminar	Weekly thereafter
Wed 15 Oct, 5–6pm	HPS History Workshop	Fortnightly thereafter
Fri 17 Oct, 11–12pm	Jobseekers' coffee morning	Fortnightly thereafter
Fri 17 Oct, 1–2pm	How to supervise examinable coursework	Required for new supervisors
Fri 24 Oct, 1–2pm	How to supervise Part IB and Part II essays	Required for new supervisors
Mon 27 Oct, 11–12.30	Aims and methods of histories of the sciences, session 1	First of a series of 6
Fri 31 Oct, 1–2pm	Working with rare printed books and archives in HPS	
Mon 3 Nov, 11–12.30	Aims and methods, session 2	
Tue 4 Nov, 11–12.30	Science in print, session 1	First of a series of 5
Fri 7 Nov, 11–12pm	Supervisors' coffee morning	Fortnightly thereafter
Fri 7 Nov, 1–2pm	How to apply for a PhD	
Mon 10 Nov, 11–12.30	Aims and methods, session 3	
Tue 11 Nov, 11–12.30	Science in print, session 2	
Fri 14 Nov, 1–2pm	Ethical issues on science and medicine	
Mon 17 Nov, 11–12.30	Aims and methods, session 4	
Tue 18 Nov, 11–12.30	Science in print, session 3	
Fri 21 Nov, 1–2pm	Researching the history of 20C science	
Mon 24 Nov, 11–12.30	Aims and methods, session 5	
Tue 25 Nov, 11–12.30	Science in print, session 4	
Fri 28 Nov, 1–2pm	Researching in museums	Meet at museum
Mon 1 Dec, 11–12.30	Aims and methods, session 6	
Tue 2 Dec, 11–12.30	Science in print, session 5	

Lent Term 2015

Seminars

Departmental Seminars

Seminars are held on **Thursdays in Seminar Room 2**, Department of History and Philosophy of Science, Free School Lane, Cambridge.

The first two seminars of this term will begin at **4.30 with tea at 4pm**; from 29 January the seminar will begin at **3.30 with tea at 3pm**.

Organised by Richard Staley and Marta Halina.

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|-------------|--|
| 15 January | <i>Tenth Cambridge Wellcome Lecture in the History of Medicine</i> |
| 4.30pm | Rebecca Fleming (Classics, Cambridge) |
| | One-seed, two-seed, three-seed? Reassessing ancient theories of generation |
| 22 January | Anke Timmermann (HPS, Cambridge) |
| 4.30pm | Colour me alchemical, or: form, execution and function in alchemical illustrations |
| 29 January | Sherrilyn Roush (King's College London) |
| 3.30pm | The rationality of science in relation to its history |
| 5 February | Julian Reiss (Durham University) |
| 3.30pm | Cause, causatives and theories of causation |
| 12 February | Frank Uekotter (University of Birmingham) |
| 3.30pm | The enigma of environmentalism: the power of knowledge and the power of memory |
| 19 February | Arne Schirmacher (Humboldt University, Berlin) |
| 3.30pm | Towards a history of interactivity (through interactive objects) |
| 26 February | Eran Tal (HPS, Cambridge) |
| 3.30pm | The shifting economies of measurement uncertainty |
| 5 March | Julie Anderson (University of Kent) |
| 3.30pm | From craft to mass production? Design, manufacture and patents for artificial limbs, 1890–1925 |

Seminar Programmes are sent out at the start of every term to the names on our mailing list. Please contact the Department if you would like to be added to or removed from the mailing list, or if you change your address.

Seminar information is also available at www.hps.cam.ac.uk/seminars

Department of History and Philosophy of Science, University of Cambridge
Free School Lane, Cambridge CB2 3RH

Abstracts

15 January *Tenth Cambridge Wellcome Lecture in the History of Medicine*

Rebecca Fleming (Classics, Cambridge)

One-seed, two-seed, three-seed? Reassessing ancient theories of generation

Medical and philosophical theories of generation from the classical world are often classified according to whether the female as well as the male produces ‘seed’, the substance which does the most important work in procreation. Aristotle is usually identified as the most influential proponent of the ‘one-seed model’, while Galen champions the ‘two-seed’ cause, and the debate between them continues, and continues to matter, for centuries. At stake here is not just theoretical efficiency – how well the full complexities of parental resemblance are accounted for by the contending notions, for example – but also, it has been suggested, politics and patriarchy. Two seeds are thus better, more egalitarian, than one, because this model values the female role in generation more positively. The lecture will argue that not only this characterisation, but the division itself, is misleading. Another way must be found to understand the key concepts in these foundational debates.

22 January **Anke Timmermann (HPS, Cambridge)**

Colour me alchemical, or: form, execution and function in alchemical illustrations

Illustrations in alchemical manuscripts have received some scholarly attention in recent years, often with a focus on the colourful and beautiful, and in exploration of a single author’s work, of a specific text and its illustrations, or of an individual manuscript. This talk will provide additional perspectives on alchemy and images through the lens of substantial collections such as those held in Cambridge archives: manuscripts not primarily selected for their artistic qualities, but by their original collectors’ miscellaneous interests, by institutions’ collection strategies and more or less successful attempts at preservation, and generally, by the chance of survival. I will offer an overview of the nature and extent of illustration in alchemical manuscripts, and then present a case study to investigate why, how and how successfully writers of manuscripts in the early modern period illustrated alchemical works. Particular emphasis will be placed on the concepts of movement in drawings and the connection between experimentation, illustration and perception.

29 January **Sherrilyn Roush (King’s College London)**

The rationality of science in relation to its history

Many philosophers have thought that Kuhn’s claim that there have been paradigm shifts introduced a problem for the rationality of science, because it appears that in such a change nothing can count as a neutral arbiter; even what you observe depends on which theory you already subscribe to. The history of science challenges its rationality in a different way in the pessimistic induction, where failures of our predecessors to come up with true theories about unobservable entities is taken by many to threaten the rationality of confidence in our own theories. The first problem arises from a perception of uncomfortably much discontinuity, the second from an unfortunate kind of continuity, in the track record of science. I argue that both problems are only apparent, and due to under-description of the history. The continuing appeal of the pessimistic induction in particular is encouraged by narrow focus on a notion of method that Kuhn was particularly eager to resist.

5 February **Julian Reiss (Durham University)**

Cause, causatives and theories of causation

The aim of this paper is to draw attention to the difficulties the ubiquity of causatives such as oxidise, transduce, dampen and prolong in scientific language raise for truth-conditional theories of causation which have the form ‘C causes E if and only if...’ or a near variant. The difficulties are a consequence of three features of the use of causatives in science: they are ineliminable, they represent causal relations and processes of many different

metaphysical kinds, and they are polysemous. I argue that no truth-conditional theory of causation can do justice to the use of causatives in scientific language. I then sketch an alternative, inferentialist theory of causation and finally show how it deals with causatives.

12 February **Frank Uekotter (University of Birmingham)**

The enigma of environmentalism: the power of knowledge and the power of memory

Few recent phenomena have received more divergent readings than modern environmentalism. Even its general nature is open to debate: was environmentalism a social movement, or a broader cultural force, or even a ‘new enlightenment’, as Joachim Radkau argued in a recent book? This big-picture talk seeks to gain a better understanding of environmentalism as it evolved post-1945 through the combined forces of memory studies and the history of knowledge. More than other movements, environmentalism relied on the cognitive skills and the political pull of scientific expertise. At the same time, environmentalism was perhaps the most powerful transformative force of science in the last third of the 20th century. However, while scientific expertise and its peculiar blinders have received great attention, the power of memory is more of a hidden force – though one that has grown in strength over time. We cannot understand policies on DDT without the legacy of Rachel Carson or the row over genetically modified organisms without the experience of high-risk technologies such as nuclear power and industrial chemistry. So as it stands, environmentalism is about expertise, power, economic interests, and a legacy, with the strains between these forces becoming ever more obvious. In conclusion, this talk will argue that global environmentalism as we know it may prove to be a one-generation project – and that may not even be a bad thing.

19 February **Arne Schirmacher (Humboldt University, Berlin)**

Towards a history of interactivity (through interactive objects)

In the course of the 20th century, science museums stalled, science centres, however, surged. This is presumably due to politics of display or economic constraints; but it is also related to the use of objects. The focus has shifted from artefacts to interactives, as a new paradigm of interactivity greatly influenced how science was exhibited in the public space. In my paper I will discuss some preliminary results of a larger project in preparation, which attempts to write a history of interactivity by studying the development of the science museum in Europe and Northern America between the late 19th and the late 20th century. It appears that a line can be drawn from the Berlin Urania founded in 1888, which leads to the Deutsches Museum and the Science Museum in London as well as to a number of American museums of science and industry opened since the 1920s, which not only carries the idea of interactivity, but which actually is one of ‘objects in transit’. By following push-button experiments, hands-on demonstrations, working models and the like from one place to another, a transatlantic discourse on interactivity may become apparent. While the Exploratorium in San Francisco has absorbed much from East Coast museums and European institutions at the end of the 1960s, the first European science centres imported – or re-imported? – many interactives from there some twenty years later. Clearly, my approach is meant to deconstruct the purported singularity of the Exploratorium and its concept invented by Frank Oppenheimer to some extent by putting it into a wider setting. At the same time this may question the ‘political machines’ pushing the interactive turn, which replaces artefacts of curiosity and narratives of progress, which can be scrutinised, by context-free presentations of entertaining phenomena, which rather cannot.

26 February **Eran Tal (HPS, Cambridge)**

The shifting economies of measurement uncertainty

In 2018 the General Conference on Weights and Measures plans to redefine four of the base units of the International System (SI) – the kilogram, ampere, kelvin and mole – by fixing the numerical values of four fundamental constants. This change is meant to release the uncertainties of metric measurements from their dependence on the idiosyncrasies of particular material artefacts. And yet the planned redefinition raises an epistemological difficulty: in the absence of absolute and concrete standards, what does it mean for a measurement outcome to be more or less accurate? This puzzle is solved, I argue, by acknowledging that measurement uncertainty is a special case of predictive uncertainty, that is, the uncertainty involved in predicting the behaviour of a measurement process with a theoretical and/or statistical model of that process. The uncertainty assigned to a measuring system in the new SI accordingly reflects scientists' ability to use fundamental physical equations to predict the behaviour of that system. Viewed in this light, the planned redefinition of SI units implicitly promotes a new economy of uncertainty in the physical sciences, i.e. a new set of principles for the management of scientific uncertainty that treats measurement as the approximation of ideal theoretical relations. I explore some of the counterintuitive epistemological consequences of this shift.

5 March **Julie Anderson (University of Kent)**

From craft to mass production? Design, manufacture and patents for artificial limbs, 1890–1925

Nineteenth-century artificial limb design and production was a craft based industry. A single prosthesis – a complex construction of wood, leather and fabric – often took longer than six weeks to produce, and each one was individually designed and made for the wearer. The medical profession distanced itself from this work; instead limb makers and fitters took out patents on components and developed new technology to improve the limb's function. The First World War altered this process. As the need for limbs increased with the growing number of amputee soldiers, methods of mass production and standardisation were employed. Yet while the Ministry of Pensions sought standard limbs, the competition between the 22 manufacturers it contracted to provide them created distinct complications, as designs, methods of attachment, and intricate internal machinery were patented. Using a range of sources, including medical manufacturers' catalogues and limb fitters' promotional material, this paper will assess the changing environment of artificial limb production from the late 19th century to the period following the First World War, focusing on the impact of the Ministry of Pensions' interventions on the design, production and patenting process.

Cabinet of Natural History

This research seminar is concerned with all aspects of the history of natural history and the field and environmental sciences.

Seminars are held on **Mondays at 1pm in Seminar Room 1**. You are welcome to bring your lunch with you. Organised by Margaret Carlyle.

19 January **Alexander Iosad (University of Oxford)**

Cabinets, eclipses and lightning rods: the role of curiosity in the perception of science in 18th-century Russia

- 26 January **Allegra Fryxell (History, Cambridge)**
Bringing ancient grains to life: Tutankhamen, Egyptomania and modernist enchantment in interwar Britain
- 2 February **Sophie Waring (HPS, Cambridge)**
'O! How glad I am I have no pendulum': in pursuit of the figure of the earth
- 9 February **Sophie Brockmann (Institute of Latin American Studies, University of London)**
Surveying nature in late-colonial Central America
- 16 February **Alexander Wragge-Morley (University College London)**
Verbal picturing and aesthetic experience in natural history, 1650–1720
- 23 February **Neil Pemberton (University of Manchester)**
The death of the kennel: dog-fouling and dog-walking in 1970s Britain
- 2 March **Michael Bycroft (University of Warwick)**
Jewellers, travellers and the classification of gems, c. 1600–1800
- 9 March **Petter Hellström (Uppsala University)**
Deadwood taxonomies: trees of nature before evolution

Twentieth Century Think Tank

Visual Arguments: Science on Film and other Media

Our exploration of visual arguments will be complemented by readings on related topics in the Twentieth Century Reading Group, which meets on alternate Thursdays.

Think Tank meetings are held on **Thursdays, 1–2pm in Seminar Room 2**. All welcome! Organised by Richard Staley, Jesse Olszynko-Gryn and Helen Curry.

- 22 January **Kelley Wilder (De Montfort University)**
Poster display tactics as photographic arguments
- 5 February **Vanessa Toulmin (University of Sheffield)**
'Mad, bad and dangerous to know' – the myth of the mad scientist in early horror films
- 19 February **Christos Lynteris (CRASSH, Cambridge)**
The epidemiologist as culture hero: visualising humanity in the age of 'the next pandemic'
- 5 March **Tim Boon (Science Museum, London)**
Performing and mediating science on television
- 12 March **Patrick Ellis (University of California, Berkeley)**
The 'Aeroplane Gaze': looking up in 1909

Early Medicine Seminars

Seminars are on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**. Tea and biscuits are available from 4.40pm. All welcome!

Organised by Lauren Kassell.

- 20 January **Rebecca Earle (University of Warwick)**
Casta paintings and the colonial body
- 17 February **Sophie Mann (University of Essex)**
Physic and divinity: the case of Dr John Downes (1626–1694)

10 March **David Shuttleton (University of Glasgow)**

The 'consultations' of Dr William Cullen (1710–1790): creating a digital edition

History of Modern Medicine and Biology Seminars

Seminars are on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**. Tea and biscuits are available from 4.40pm. All welcome!

Organised by Nick Hopwood and Helen Curry.

27 January **Margaret Carlyle (HPS, Cambridge)**

Sizing up the pelvis: birthing technology in late 18th-century France

10 February **Caitjan Gainty (King's College London)**

Autobiography and the crafting of identity in 20th-century American medicine

3 March **María Jesús Santesmases (CSIC, Madrid)**

Women and children first: imaging medical genetics, 1950s–1970s

Generation to Reproduction Seminars

These seminars, on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**, are funded by our Wellcome Trust strategic award in the history of medicine (www.reproduction.group.cam.ac.uk). Tea and biscuits are available from 4.40pm. All welcome!

Organised by Nick Hopwood and Lauren Kassell.

3 February Reading group to discuss chapters from *Reproduction: Antiquity to the Present*

24 February **Alison Bashford (History, Cambridge)**

Malthus and the South Sea

Seminars at CRASSH

Global Science

Seminars are held on **alternate Tuesdays, 12.00–2.00pm in Room SG1, Alison Richard Building, West Road**. Organised by James Poskett, James Hall, Megan Barford and others.

Website: www.crassh.cam.ac.uk/programmes/global-science

13 January **Mark Harrison (University of Oxford)**

Respondent: **Simon Szreter (History, Cambridge)**

Risk and security in the 'age of pandemics'

10 February **Alexandra Ion (University of Bucharest)**

Respondent: **Richard Staley (HPS, Cambridge)**

The historical character of biological bodies: the construction of the anthropological gaze in the beginnings of Romanian anthropology

24 February **Chris Courtney (History, Cambridge)**

Respondent: **Helen Curry (HPS, Cambridge)**

The 1931 Central China flood: an environmental history of a humanitarian disaster

10 March **Valentina Pugliano (HPS, Cambridge)**

Respondent: **Kate Fleet (Skilliter Centre for Ottoman Studies, Cambridge)**

Contact zones/ignoring zones: how to frame knowledge exchanges between early modern Venice and the Ottoman Empire

Things that Matter, 1400–1900

Seminars are held on **alternate Wednesdays, 12.00–2.00pm in Room SG1, Alison Richard Building, West Road**. Organised by Margaret Carlyle, Michelle Wallis and others. Website:

www.crash.cam.ac.uk/programmes/things

- 14 January **Maya Corry (History of Art, Cambridge)**
Christian Kühner (University of Freiburg)
Devotional things
- 28 January **Sara Pennell (University of Freiburg)**
Roisin Inglesby (Victoria & Albert Museum)
Anonymous things
- 11 February **Angela McShane (Victoria & Albert Museum)**
Nigel Jeffries (Museum of London Archaeology)
Drinking things
- 25 February **Robbie Richardson (University of Kent)**
Michael Bravo (Scott Polar Research Institute, Cambridge)
Postcolonial things
- 11 March **Lisa Jardine (University College London)**
Evelyn Welch (King's College London)
Moving things

Graduate workshops and seminars

HPS History Workshop

Need help writing a tricky part of your argument? Need some fresh ideas and references? Or simply want to see how your early-career colleagues approach the writing process? The History Workshop is an informal setting to discuss our written works-in-progress on any area of the history of science, technology and medicine, and share feedback. A draft PhD chapter, article or conference paper will be circulated by email before each meeting. We'll then discuss it together over tea and biscuits at **5pm on alternate Wednesdays in Seminar Room 1**.

Contact Andreas Sommer and/or Seb Falk if you are interested in sharing your work in this forum, or would like to be added to the mailing list.

- 21 January **Kathryn Schoefert (HPS, Cambridge)**
Research in psychiatry at a time of therapeutic optimism
- 4 February **Clare Griffin (HPS, Cambridge)**
Finding drugs: Russia and the early modern global medicines trade, 1550–1750
- 18 February **Susanne Schmidt (HPS, Cambridge)**
The making of the midlife crisis: psychology and feminism in the 1970s
- 4 March **Jason Grier (York University, Canada)**
Newtonian politics

Graduate and Postdoc Training

Training workshops for the Department's graduate students and postdoctoral researchers are held throughout the academic year. The full programme is at www.hps.cam.ac.uk/students/training.

Date/time	Event	Notes
Fri 16 Jan, 11am–12noon	Jobseekers' coffee	Thereafter fortnightly
Fri 16 Jan, 1–2pm	How to supervise examinable coursework	Required for new supervisors
Wed 21 Jan, 1–2.30pm	CamPoS	Thereafter weekly
Wed 21 Jan, 5–6pm	HPS History Workshop	Thereafter fortnightly
Fri 23 Jan, 11am–12noon	Supervisors' coffee	Thereafter fortnightly
Fri 23 Jan, 1–2pm	How to give a research talk and chair a session	
Mon 26 Jan, 5–6.30pm	Philosophy of chemistry	Thereafter fortnightly, 4 sessions
Fri 30 Jan, 1–2pm	Researching the history of 20th century science	
Wed 4 Feb, 3–4pm	How to write a Part III/MPhil dissertation	
Fri 13 Feb, 1–2pm	Science, technology and gender	Thereafter weekly, 4 sessions

CamPoS

CamPoS (Cambridge Philosophy of Science) is a network of academics and students working in the philosophy of science in various parts of Cambridge, including the Department of History and Philosophy of Science and the Faculty of Philosophy. For further details of the composition and activities of CamPoS, see www.camposgroup.org. The Wednesday afternoon seminar series features current research by CamPoS members as well as visitors to Cambridge and scholars based in nearby institutions.

If you are interested in presenting in the series, please contact Christopher Clarke. If you have any queries or suggestions for other activities that CamPoS could undertake, please contact Huw Price, Jeremy Butterfield or Hasok Chang.

Seminars are held on **Wednesdays, 1.00–2.30pm in Seminar Room 2.**

- 21 January **Cheryl Misak (University of Toronto)**
The subterranean influence of pragmatism on the Vienna Circle: Peirce, Ramsey, Wittgenstein
- 28 January **Henk de Regt (VU University Amsterdam)**
Kinds and degrees of (scientific) understanding
- 4 February **Jenny Judge (Centre for Music and Science, Cambridge)**
TBA
- 11 February **Jonathan Knowles (NTNU – Norwegian University of Science and Technology)**
Pragmatism and the possibility of naturalistic metaphysics
- 18 February **Christian List (London School of Economics and Political Science)**
Emergent chance (jointly authored with Marcus Pivato)

- 25 February **Anna Alexandrova (HPS, Cambridge)**
Psychometric validation as theory avoidance
- 4 March **Christopher Clarke (HPS, Cambridge)**
The metaphysics of race: distinctions without any differences
- 11 March **Havi Carel (University of Bristol)**
The philosophical role of illness

Reading and discussion groups

Coffee with Scientists

The aim of this new group is to explore and enhance the interface between HPS and science. Many of us in HPS already have close engagements with science and scientists, but we do not often pull together our activities in those directions. We could benefit from more explicit discussions about the relationship between HPS and the sciences themselves, and from encouraging HPS-scholars and scientists to help each other's work. Many of our graduate students and postdocs currently work in isolation from scientists; they may benefit from the stimulation of interactions with colleagues and mentors from various science departments (in Cambridge and elsewhere), difficult to induce in our regular seminars and reading groups, which tend to be infused with standard HPS expectations, assumptions and customs.

During Lent Term 2015 we will meet on **Fridays, 3.30–5.00pm in Seminar Room 2** (please note slight change of time). Further information and reading materials will be distributed through the email list of the group; please contact Hasok Chang if you would like to be included on the list.

23 January 'Citizen Science', discussion with Dr Kat Austen
There will be further meetings on 6 February, 20 February and 6 March.

Nature and Culture Reading Group

This term we will be looking at selected readings on the philosophy of biology of race. Please contact Beth Hannon if you have any difficulty locating the readings.

Meetings will take place on **Tuesdays, 1.00–2.00pm in Seminar Room 1**. Everyone welcome!

- 20 January Mills, C. 1988. 'But What Are You Really? The Metaphysics of Race', *Blackness Visible*, Ithaca, New York: Cornell University Press, pp. 41–66.
- 27 January Glasgow, J. 2009. 'Breaking Nature's Bones', *A Theory of Race*, Oxford: Routledge, pp. 80–112.
- 3 February Pigliucci, M. and Kaplan, J. 2003. 'On the Concept of Biological Race and Its Applicability to Humans', *Philosophy of Science*, 70, pp. 1161–72.
- 10 February Spencer, Q. 2014. 'A Radical Solution to the Race Problem', *Philosophy of Science*, 81, pp. 1025–38.
- 17 February Appiah, A. 2006. 'How to Decide if Races Exist', *Proceedings of the Aristotelian Society*, 106, pp. 365–82.
- 24 February Mallon, R. 2006. "'Race": Normative Not Metaphysical or Semantic', *Ethics*, 116, pp. 525–51.
- 3 March Haslanger, S. 2005. 'What Are We Talking About? The Semantics and Politics of Social Kinds', *Hypatia*, 20, pp. 10–26.

- 10 March Gannett, L. 2010. 'Questions Asked and Unasked: How by Worrying Less about the "Really Real" Philosophers of Science Might Better Contribute to Debates about Genetics and Race', *Synthese*, 117, pp. 363–85.

History and Theory Reading Group

The Total Archive

Coinciding with the upcoming CRASSH conference 'The Total Archive', this term History and Theory will consider some attempts to theorise a recurrent theme in the history of the natural and human sciences: the dream of universal knowledge. Beginning with Derrida's definitive analysis of archival madness, the group will trace the ever-elusive vision of the total archive from psychoanalysis and cybernetics through to recent developments in the technologies of statecraft.

Meetings take place **every other Friday, 11am–12.30pm in Seminar Room 3**. Organised by Boris Jardine and Matthew Drage.

- 23 January Jacques Derrida, 'Archive Fever: A Freudian Impression', *Diacritics* 25/2 (1995), pp. 9–63
- 6 February Andrew Pickering, 'Beyond Design: Cybernetics, Biological Computers and Hylozoism', *Synthese* 168/3 (2009), pp. 469–491
- N. Katherine Hayles, 'Liberal Subjectivity Imperilled: Norbert Weiner and Cybernetic Anxiety', Chapter 3 in *How We Became Posthuman: Virtual Bodies in Cybernetics, Literature, and Informatics* (University of Chicago Press, 1999), pp. 84–112
- 20 February Simon Schaffer, 'Afterword' to the Proceedings of the 2012 Dialoghi De San Giorgio, 'Re-Visioning the World: Myths of Universal Knowledge and the Aesthetics of Global Imaging' [please contact the organisers for a copy of this text]
- Poovey, 'The Limits of the Universal Knowledge Project: British India and the East Indiamen', *Critical Inquiry* 31/1 (2004), pp. 183–202
- 6 March Foucault, 'American neo-liberalism', Chapters 9 & 10 in *The Birth of Biopolitics: Lectures at the College de France, 1978–1979* (Palgrave Macmillan, 2008) pp. 125–266
- James C. Scott, 'Authoritarian High Modernism', Chapter 3 in *Seeing Like a State: How Certain Schemes to Improve the Human Condition Have Failed* (Yale University Press, 1999), pp. 87–102

Twentieth Century Reading Group

The group discusses books and papers relating to the history and historiography of 20th-century science, technology and medicine, broadly construed.

This term we will explore the themes of film in science, technology and medicine to complement talks given at the Twentieth Century Think Tank, which meets on alternate Thursdays. Readings will be made available in advance in our Whipple Library box.

Meetings are held on **Thursdays, 1.00–2.00pm in Seminar Room 3**.

Organised by Jesse Olszynko-Gryn, Kathryn Schoefert and Susanne Schmidt.

- 29 January Introduced by **Susanne Schmidt**
- Alison Winter, 'Film and the Construction of Memory in Psychoanalysis, 1940–1960', *Science in Context* 19 (March 2006): 111–136.
- Michael Shortland, 'Screen Memories: Towards a History of Psychiatry and Psychoanalysis in the Movies', *British Journal for the History of Science* 20 (October 1987): 421–452.

12 February Introduced by **Josh Nall**

Alison Griffiths, “‘A Moving Picture of the Heavens’: Planetarium Space Shows as Useful Cinema’, in *Useful Cinema*, edited by Charles R. Acland and Haidee Wasson (Durham, NC: Duke University Press, 2011): 230–259.

26 February Introduced by **Jesse Olszynko-Gryn**

Haidee Wasson, ‘Electric Homes! Automatic Movies! Efficient Entertainment!: 16mm and Cinema’s Domestication in the 1920s’, *Cinema Journal* 48 (Summer 2009): 1–21; ‘Suitcase Cinema’, *Cinema Journal* 51 (Winter 2012): 148–52; ‘Protocols of Portability’, *Film History* 25 (Winter 2013): 236–247.

Science and Literature Reading Group

This term we will read a pair of plays which in different ways address the role and responsibilities of the man of science. Both readings are available in the University Library, and copies will also be placed at the beginning of term in the Whipple Library box file.

We meet at **Darwin College on Monday evenings from 7.30–9pm**. All are very welcome to join us!

Organised by Melanie Keene (Homerton) and Adrian Kent (DAMTP). To join the mailing list, email Melanie; for further updates and information please see our blog: www.sci-lit-reading-group.blogspot.com.

9 February (No 1 Newnham Terrace Upstairs Seminar Room)

Maxim Gorky, ‘Children of the Sun’ (1905)

2 March (Newnham Grange Seminar Room)

Stephen Poliakoff, ‘Blinded by the Sun’ (1996)

Philosophy and History of Physics Reading Group

Organised by Daniel Mitchell, Hasok Chang and Jeremy Butterfield.

This year’s meetings will have one common theme: measurement. We will investigate the development of physical measurements in recent centuries, paying attention to their epistemological significance, their institutional and social settings, and their relation to measurements in other sciences.

We will be discussing works in progress by various members of the group, as well as selected works by others. The year’s activities will culminate in an international interdisciplinary conference on ‘The Making of Measurement’ held at CRASSH on 23–24 July 2015, organised by Daniel Mitchell, Eran Tal and Hasok Chang. The call for papers closes on 28 February 2015.

The group will meet weekly at the usual time of **2.00–3.00pm on Tuesdays in Seminar Room 3**. Readings for the first half of the term are confirmed, and the remainder will be determined in consultation with the wider group. Further information and reading materials will be distributed through the email list of the group; please contact Daniel Mitchell if you would like to be included on the list.

20 January N. R. Campbell on the Laws and Practices of Measurement. Extracts from *An Account of the Principles of Measurement and Calculation* (Longman, Green, 1928).

27 January Selected chapters from Percy Bridgman, *Dimensional Analysis* (Yale University Press, 1922).

3 February John Roche, ‘Dimensional Analysis and the Quantity Calculus’, ch. 10 of *The Mathematics of Measurement: A Critical History* (Athlone, 1998).

10 February Daniel Jon Mitchell: 'Measurement and Metrology post-Maxwell: A Historical, Philosophical, and Mathematical Primer', *draft*.

There will be further meetings on 17 February, 24 February, 3 March and 10 March.

AD HOC

The Lent Term meetings of the Cambridge branch of AD HOC will double as this year's graduate seminar on the philosophy of chemistry. These four sessions will introduce key themes from current debates in this rapidly expanding field, with the help of readings that are cutting-edge research papers yet accessible to non-specialists. No readings will be repeated from previous years of the seminar.

We will meet fortnightly on **Mondays, 5.00–6.30pm in Seminar Room 1**. All welcome, especially PhD, MPhil and Part III students. For students and junior scholars who wish to travel to the meetings from outside Cambridge, small travel subsidies are available thanks to a grant from the Society for the History of Alchemy and Chemistry (SHAC). Similar subsidies are also available for those wishing to attend meetings of the London branch of the group.

Organised by Hasok Chang and Sophie Osiecki. To get on the email list for AD HOC, please send a note to adhochistory@gmail.com.

26 January Philosophy of science in the image of chemistry

Alfred Nordmann, 'From Metaphysics to Metachemistry', in Davis Baird, Eric Scerri and Lee McIntyre, eds., *Philosophy of Chemistry: Synthesis of a New Discipline* (Springer, 2006), 347–362. [read closely]

Jaap van Brakel, 'Philosophy of Science and Philosophy of Chemistry', *HYLE — International Journal for Philosophy of Chemistry*, 20 (2014), 11–57. [online, open access] [read selectively]

9 February New conceptual tools for the philosophy of chemistry

Rom Harré, 'New Tools for Philosophy of Chemistry', *HYLE — International Journal for Philosophy of Chemistry*, 20 (2014), 77–91. [read closely]

Pierre Laszlo, 'Chemistry, Knowledge Through Actions?', *HYLE — International Journal for Philosophy of Chemistry*, 20 (2014), 93–116. [read closely]

23 February Chemistry and pluralism

Joachim Schummer, 'The Methodological Pluralism of Chemistry and Its Philosophical Implications', in Eric Scerri and Lee McIntyre, eds., *Philosophy of Chemistry: Growth of a New Discipline* (Dordrecht: Springer, 2015), 57–72. [read closely]

Gaston Bachelard, *La pluralisme cohérent de la chimie moderne* (Paris: Vrin, 1932; reprint 1973). [selections]

9 March Back to the metaphysics of chemistry

Robin Hendry, 'Three Metaphysical Issues in Chemistry', in Jean-Pierre Llored, ed., *The Philosophy of Chemistry: Practices, Methodologies, and Concepts* (Newcastle upon Tyne: Cambridge Scholars Publishing, 2013), 510–526. [read closely]

Mi Gyung Kim, 'Stabilizing Chemical Reality: The Analytic-Synthetic Ideal of Chemical Species', *HYLE — International Journal for Philosophy of Chemistry*, 20 (2014), 117–139. [read closely]

Kant Reading Group

The topic of the Kant Reading Group this term is Kant's philosophy of biology. We'll discuss Kant's notion of the organism, the role and status of teleological principles in the study of nature, and the relationship of teleological considerations and mechanistic explanations. Readings will include passages from the *Critique of Judgment* and related sections from the *Critique of Pure Reason*. Interested students, researchers and faculty members are all welcome.

Meetings are on **Wednesdays, 11.00am–12.30pm in the Philosophy Board Room, Faculty of Philosophy, Sidgwick Site.**

Please contact Angela Breitenbach or Thomas Land for more information or if you would like to be added to the mailing list.

The Critique of Teleological Judgment (Second Part of the *Critique of Judgment*):

- 21 January Analytic of Teleological Judgment, §§61–63 (V 359–369)
- 28 January Analytic of Teleological Judgment, §§64–68 (V 369–384)
- 4 February Dialectic of Teleological Judgment, §§69–73 (V 385–395)
- 11 February Dialectic of Teleological Judgment, §§74–76 (V 395–404)
- 18 February Dialectic of Teleological Judgment, §§75–78 (V 405–415)

The Transcendental Dialectic (Second Part of the *Critique of Pure Reason*):

- 25 February Introduction to the Transcendental Dialectic (A293/B349–A309/B366)
- 4 March Appendix to the Transcendental Dialectic (A642/B670–A668/B696)
- 11 March Appendix to the Transcendental Dialectic (A669/B697–A704/B732)

Philosophy of Psychology Reading Group

Philosophy of Psychiatry, Classification and the DSM-5

We meet on **Thursdays, 11am–12noon in Seminar Room 1.** Organised by Riana Betzler.

- 15 January Chapter 4: The Medical Model and the Foundations of Psychiatric Explanation, in Murphy, D. (2006). *Psychiatry in the Scientific Image*. Cambridge: MIT Press.
- 22 January Chapter 10: Classification in Psychiatry, in Murphy, D. (2006). *Psychiatry in the Scientific Image*. Cambridge: MIT Press.
- 29 January Introduction & Chapter 1 in Cooper, R. (2014). *Diagnosing the Diagnostic and Statistical Manual of Mental Disorders*. London: Karnac Books.
- 5 February Chapters 2 & 3 in Cooper, R. (2014). *Diagnosing the Diagnostic and Statistical Manual of Mental Disorders*. London: Karnac Books.
- 12 February Chapters 4 & 5 in Cooper, R. (2014). *Diagnosing the Diagnostic and Statistical Manual of Mental Disorders*. London: Karnac Books.
- 19 February Chapters 6 & 7 in Cooper, R. (2014). *Diagnosing the Diagnostic and Statistical Manual of Mental Disorders*. London: Karnac Books.
- 26 February Volkmar, F. R. & Reichow, B. (2013). Autism in DSM-5: progress and challenges. *Molecular Autism*, 4(13).

Grzadzinski, R., Huerta, M. & Lord, C. (2013). DSM-5 and autism spectrum disorders (ASDs): an opportunity for identifying ASD subtypes, *Molecular Autism*, 4(12).

Buxbaum, J. D. & Baron-Cohen, S. (2013). DSM-5: The Debate Continues. *Molecular Autism*, 4(11).

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Language groups

Latin Therapy

Latin Therapy is an informal reading group. All levels of Latin (including beginners) are very welcome. We meet on **Fridays, 4.00–5.30pm in Seminar Room 3**, to translate and discuss a text from the history of science, technology or medicine. If a primary source is giving you grief, we'd love to help you make sense of it over tea and biscuits! Thus we provide a free translation service for the Department, and a means for members to brush up their skills.

More information can be found at our website: www.hps.cam.ac.uk/latintherapy. To be added to the mailing list, or to suggest a text, please contact Tillmann Taape or Natalie Lawrence.

Greek Therapy

Greek Therapy meets **every Wednesday during term time in Seminar Room 3 from 5.30 to 7pm**.

We are an informal group for beginners and for experienced readers of Greek seeking to brush up their skills – all levels are welcome. Sessions usually involve a basic grammar session at the beginning followed by reading through a more advanced text. For more information or to be added to the mailing list, please email Liz Smith.

Film series

Reproduction on Film: Outlaws

What do a human fly, alien pod people and talking apes from the future all have in common? They are just some of the transgressively reproductive heroes, antiheroes and villains – at the margins of society and outside the law – featured in the fourth series of 'Reproduction on film', devised by Jesse Olszynko-Gryn and the Generation to Reproduction programme with funding from the Wellcome Trust.

Wednesdays 4 February – 11 March 2015, at the Umney Theatre, Robinson College, and St Philip's Church Centre, Mill Road. All screenings at 7pm, venue alternates weekly.

4 February St Philip's Church

Escape from the Planet of the Apes (1973)

Introduced and with discussion led by **Amy Chambers (University of Manchester)**

11 February Robinson College

Invasion of the Body Snatchers (1956)

Introduced and with discussion led by **David Kirby (University of Manchester)**

- 18 February St Philip's Church
Bed and Sofa (1927)
Introduced and with discussion led by **Anna Toropova (Slavonic Studies, Cambridge)**
- 25 February Robinson College
The Fly (1986)
Introduced and with discussion led by **Sarah Dillon (English, Cambridge)**
- 4 March St Philip's Church
Sparrows Can't Sing (1963)
Introduced and with discussion led by **Lucy Bland (Anglia Ruskin University)**
- 11 March Robinson College
Silent Cinema and the Comedy of Birth: An Evening of Shorts (1896–1935)
Introduced and with discussion led by **Patrick Ellis (University of California, Berkeley)**

Easter Term 2015

Seminars

Departmental Seminars

Seminars are held on **Thursdays from 3.30 to 5pm in Seminar Room 2**, Department of History and Philosophy of Science, Free School Lane, Cambridge. There is tea beforehand from 3pm in Seminar Room 1.

Organised by Richard Staley and Marta Halina.

- 23 April **Greg Radick (University of Leeds)**
Mendel the fraud? A social history of truth in genetics
- 30 April **Simon Naylor (University of Glasgow)**
Log books and the law of storms: maritime meteorology and the British Admiralty in the 19th century
- 7 May **Angela Breitenbach (Faculty of Philosophy, Cambridge)**
The lawfulness of the contingent
- 14 May **Warwick Anderson (University of Sydney)**
Filming Fore, shooting scientists: medical research and documentary film
- 21 May ***Twentieth Annual Hans Rausing Lecture***
McCrum Lecture Theatre, Bene't Street, 4.30pm
Jianjun Mei (Needham Research Institute, Cambridge)
Metallurgy and Chinese civilisation: an historical overview

Abstracts

- 23 April **Greg Radick (University of Leeds)**
Mendel the fraud? A social history of truth in genetics

Two things about Gregor Mendel are common knowledge: first, that he was the ‘monk in the garden’ whose experiments with peas in mid-19th-century Moravia became the starting point for genetics; second, that, despite that exalted status, there is something fishy, maybe even fraudulent, about the data that Mendel reported. In the year marking the 150th anniversary of Mendel’s lectures on his experiments, this talk will explore the cultural politics of this accusation of fraudulence against Mendel. Although the notion that Mendel’s numbers were, in statistical terms, too good to be true was well understood almost immediately after the famous ‘rediscovery’ of his work in 1900, the problem became widely discussed and agonized over only from the 1960s, for reasons having as much to do with Cold War geopolitics as with traditional concerns about the objectivity of science. Appreciating the Cold War origins of the problem as we have inherited it can be a helpful step towards shifting the discussion in more productive directions, for scientific as well as history-of-science purposes.

- 30 April **Simon Naylor (University of Glasgow)**
Log books and the law of storms: maritime meteorology and the British Admiralty in the 19th century

This paper contributes to debates about the relationship between science and the military by examining the British Admiralty’s participation in meteorological projects in the first half of the 19th century. It focuses on

attempts to transform Royal Naval log books into standardized meteorological registers that would be of use to both science and the state. The paper begins with a discussion of Admiralty Hydrographer, Francis Beaufort, who promoted the use of standardized systems for the observation of the weather at sea. It then examines the application of ships' logs to the science of storms. The paper focuses on the Army Engineer, William Reid, who studied hurricanes while stationed in Barbados and Bermuda. Reid was instrumental in persuading the Admiralty to implement a naval meteorological policy, something the Admiralty Hydrographer had struggled to achieve. The paper uses the reception and adoption of work on storms at sea to reflect on the means and ends of maritime meteorology in the mid-19th century.

7 May **Angela Breitenbach (Faculty of Philosophy, Cambridge)**

The lawfulness of the contingent

Kant argues that all empirical phenomena are unified by natural laws. Any appearance of lawlessness in nature is only the result of our ignorance, and this is true whether we consider the inanimate or animate world. Kant also holds that there is an important difference between the physical and biological sciences. He famously claims that the progress made in physics by Newton's laws of motion could never be achieved in biology, and that the study of living nature must instead be guided by a regulative principle of purposive organisation, indicating the 'lawfulness of the contingent'. My aim in this paper is to explore whether and how one might resolve the tension between Kant's claims to the unity of nature and the disunity of the special sciences. I propose that what emerges from Kant's account is a non-reductionist conception of scientific unity that is essentially dependent on a unifying perspective.

14 May **Warwick Anderson (University of Sydney)**

Filming Fore, shooting scientists: medical research and documentary film

During the Cold War, the research film became instrumental in medical science and cultural anthropology, especially in the surveillance and analysis of non-recurring events in isolated or primitive communities. Inspired by the informational cinema studies of Mead and Bateson on Bali and Gesell in New Haven, Gajdusek and Sorenson in the 1960s sought to accumulate a global film archive of primitive communities, focusing on clinical disorders, such as kuru among the Fore people of New Guinea, and patterns of child health and development. Ostensibly objective, the camera was for them a desiring machine, thus relating their archival project to the contemporary experimental film of Warhol and others in New York. Research film should be distinguished from formal documentary film, which flourished in this period, with its emphasis on editorial selection, thematic coherence, and narrative closure. Ironically, and somewhat disappointingly, Gajdusek's and Sorensen's research film archive is now used mostly to provide ornamentation and verisimilitude to 21st-century documentary films about the supposed heroics or presumed priapism of modern scientists.

21 May ***Twentieth Annual Hans Rausing Lecture***

McCrum Lecture Theatre, Bene't Street, 4.30pm

Jianjun Mei (Needham Research Institute, Cambridge)

Metallurgy and Chinese civilisation: an historical overview

The significant contributions of the Chinese people to the development of world civilisation have been well documented in Joseph Needham's monumental *Science and Civilisation in China* series. Over the past two decades, new archaeological discoveries and research have revealed an increasing body of evidence showing that Chinese civilisation did not develop in isolation, but was the result of complex historical processes involving longstanding and extensive cultural and technological interactions with other civilisations. Taking bronze casting, cast iron and *paktong* (white copper) as typical examples, this lecture offers a historical

overview of the role of metallurgical technologies in shaping the growth of ancient Chinese civilisation. It argues from a technological perspective that the interaction between China and the outside world has always been a crucial factor in stimulating the vigorous development of Chinese civilization since its very beginnings. The importance of technological ‘institutionalization’ in a given social context will also be emphasised.

Cabinet of Natural History

This research seminar is concerned with all aspects of the history of natural history and the field and environmental sciences.

Seminars are held on **Mondays at 1pm in Seminar Room 1**. You are welcome to bring your lunch with you. Organised by Margaret Carlyle.

- 27 April **Kathryn Schoefert (HPS, Cambridge)**
Beavers, brains, behaviour: the natural histories of 1950s psychiatry
- 11 May **José Beltrán (European University Institute, Florence)**
The hand of the naturalist: Charles Plumier, images and overseas natural history in late-17th-century France
- 18 May **Melanie Keene (HPS, Cambridge)**
The elephant in the room: presence, practice and pachyderms in Victorian education
Field trip – Friday 22 May
- 8 June **Victor Boantza (University of Minnesota)**
Natural history, chemistry and the mysteries of vegetation in the 18th century
Garden party – Friday 12 June

Twentieth Century Think Tank

Think Tank meetings are held on **Thursdays, 1–2pm in Seminar Room 2**. All welcome! Organised by Richard Staley, Jesse Olszynko-Gryn and Helen Curry.

- 30 April **Dmitriy Myelnikov (HPS, Cambridge)**
Bypassing the brave new world: reporting transgenic mice in the early 1980s
- 14 May **Warwick Anderson (University of Sydney)**
Intolerant bodies: on biological individuality and writing with scientists

Nature and Culture Seminar Series

Seminars take place on **Tuesdays, 1–2.30pm in Seminar Room 1**. Please direct any queries to Beth Hannon.

- 28 April **Gillian Brown (University of St Andrews)**
Evolutionary perspectives on sex differences in human behaviour
- 5 May **Heidi Colleran (Institute for Advanced Study in Toulouse)**
The cultural evolution of fertility decline
- 12 May **Fiona Jordan (University of Bristol)**
The bounded diversity of human kinship: unpacking processes of cultural evolution
- 19 May **Kevin Laland (University of St Andrews)**
The evolution of culture

Seminars at CRASSH

Global Science

Seminars are held on **alternate Tuesdays, 12.00–2.00pm in Room SG1, Alison Richard Building, West Road**. Organised by James Poskett, James Hall, Megan Barford and others.

Website: www.crassh.cam.ac.uk/programmes/global-science

- 21 April TBC
- 5 May **Sophie Brockmann (Institute of Latin American Studies, London)**
Global aspirations and local traditions: discourses of science, technology and progress in Central America, 1790–1840
- 19 May **Christos Lynteris (CRASSH, Cambridge)**
The visual plague: global perspectives
- 2 June **Amy Donovan (Geography, Cambridge)**
Respondent: **Marta Magalhães (Social Anthropology, Cambridge)**
Volcanoes on borders: managing liminal science in Latin America

Things that Matter, 1400–1900

Seminars are held on **alternate Wednesdays, 12.00–2.00pm in Room SG1, Alison Richard Building, West Road**. Organised by Margaret Carlyle and others.

Website: www.crassh.cam.ac.uk/programmes/things

- 22 April **Timothy Wilson (Ashmolean Museum, Oxford)**
Sarah Haggarty (English, Cambridge)
Gifted things
- 6 May **Anne Secord (Darwin Correspondence Project, Cambridge)**
Lucy Razzall (English, Cambridge)
Contained things
- 20 May **Helen King (Open University)**
Michelle O'Malley (University of Sussex)
Reproduced things
- 3 June **Will Fisher (City University of New York)**
Jen Evans (University of Hertfordshire)
Sexy things

Graduate workshops and seminars

HPS History Workshop

Need help writing a tricky part of your argument? Need some fresh ideas and references? Or simply want to see how your early-career colleagues approach the writing process? The History Workshop is an informal setting to discuss our written works-in-progress on any area of the history of science, technology and medicine, and share feedback. A draft PhD chapter, article or conference paper will be circulated by email before each meeting. We'll then discuss it together over tea and biscuits at **5pm on alternate Wednesdays in Seminar Room 1**.

Contact Andreas Sommer and/or Seb Falk if you are interested in sharing your work in this forum, or would like to be added to the mailing list.

- 29 April **Seb Falk (HPS, Cambridge)**
Pedagogy and the vernacular in medieval astronomy
- 13 May **Jonnie Penn (HPS, Cambridge)**
John von Neumann, Alan Turing and the origins of cellular automata
- 27 May **Jenny Bulstrode (HPS, Cambridge)**
Rock, paper, patents: between intellectual property and embodied knowledge
- 10 June **Brandon Jackson (HPS, Cambridge)**
Tuning out knowledge: radio interface design in interwar Britain

Reading and discussion groups

Coffee with Scientists

The aim of this group is to explore and enhance the interface between HPS and science. Many of us in HPS already have close engagements with science and scientists, but we do not often pull together our activities in those directions. We could benefit from more explicit discussions about the relationship between HPS and the sciences themselves, and from encouraging HPS-scholars and scientists to help each other's work. Many of our graduate students and postdocs currently work in isolation from scientists; they may benefit from the stimulation of interactions with colleagues and mentors from various science departments (in Cambridge and elsewhere), difficult to induce in our regular seminars and reading groups, which tend to be infused with standard HPS expectations, assumptions and customs.

During Easter Term 2015 we will meet on **Fridays, 3.30–5.00pm in Seminar Room 2**. Listed below are the meetings confirmed so far, and one further event may be organised. Further information and reading materials will be distributed through the email list of the group; please contact Hasok Chang if you would like to be included on the list.

- 24 April **John Hall:** Reflections on clinical psychology: science, practice and policy
- 1 May **Eric Steig:** Is paleoclimatology science?
- 22 May **Klaus Ruthenberg:** Closed theories and chemistry

Philosophy and History of Physics Reading Group

Organised by Daniel Mitchell, Hasok Chang and Jeremy Butterfield.

This year's meetings have one common theme: measurement. We investigate the development of measurements in various sciences in recent centuries, paying attention to their epistemological significance, their institutional and social settings, and their relation to measurements in other sciences. The year's activities will culminate in an international interdisciplinary conference on 'The Making of Measurement' held at CRASSH on 23–24 July 2015, organised by Daniel Mitchell, Eran Tal and Hasok Chang.

The group will meet weekly at **4.00–5.00pm on Tuesdays in the Board Room** (please note later time). Scholars whose works we will discuss this term include Anna Alexandrova, Jim Grozier, Klaus Ruthenberg, Michael Kershaw and Annette Mülberger, covering the social and psychological sciences as well as the physical

sciences. Further information and reading materials will be distributed through the email list of the group; please contact Daniel Mitchell if you would like to be included on the list.

AD HOC

During the Easter Term AD HOC will have occasional meetings on **Mondays, 5.00–6.30pm in Seminar Room 1**. Further details will be announced as they are confirmed. For students and junior scholars who wish to travel to the meetings from outside Cambridge, small travel subsidies are available thanks to a grant from the Society for the History of Alchemy and Chemistry (SHAC). Similar subsidies are also available for those wishing to attend meetings of the London branch of the group.

Organised by Hasok Chang and Sophie Osiecki. To get on the email list for AD HOC, please send a note to adhochistory@gmail.com.

History and Theory Reading Group

Benjamin's *Arcades Project*

This term the History and Theory Reading Group will tackle the brilliant, monumental *Arcades Project* – Walter Benjamin's unfinished attempt to grapple with the development of modern capitalism through an exploration of Parisian commercial architecture at the end of the 19th century.

Owing to the sheer scale of the *Arcades*, our procedure is to set a small amount of required reading for each session, and to encourage participants to work through the text itself in their own manner, identifying relevant passages and bringing them to the reading group for discussion.

The full text of the *Arcades* is available online (though you are advised to get hold of one of the many print copies available in Cambridge's libraries/bookshops!). The essay at the *Stanford Encyclopaedia of Philosophy* serves as a useful introduction to Benjamin's thought, and provides a good bibliography, especially of more recent work. Links to all the readings are available at www.hps.cam.ac.uk/seminars.

Meetings take place **every other Friday, 11am–12.30pm in the Board Room**. Organised by Boris Jardine and Matthew Drage.

- 24 April Susan Buck-Morss, 'Benjamin's Passagen-Werk: Redeeming Mass Culture for the Revolution', *New German Critique* 29 (Spring–Summer, 1983), pp. 211–240
- 8 May Richard Sieburth, 'Benjamin the Scrivener', *Assemblage* 6 (June, 1988), pp. 6–23
- 22 May Jürgen Habermas, 'Consciousness-Raising or Redemptive Criticism: The Contemporaneity of Walter Benjamin', *New German Critique* 17 (Spring, 1979), pp. 30–59
- 5 June Walter Benjamin, 'Surrealism: The Last Snapshot of the European Intelligentsia'
Walter Benjamin, 'Theses on the Philosophy of History'

Philosophy of Psychology Reading Group

Misbelief

We meet on **Thursdays, 11am–12noon in Seminar Room 1**. Organised by Riana Betzler.

- 23 April McKay, R.T. & Dennett, D.C. (2009). The evolution of misbelief. *Behavioural and Brain Sciences*, 32, 493–561. Article (pp. 493–510) + two commentaries of your choice!

- 30 April Davies, A.M.A. & Davies, M. (2009). Explaining Pathologies of Belief. In M. Broome & L. Bortolotti, eds., *Psychiatry as Cognitive Neuroscience: Philosophical Perspectives*. Oxford: Oxford University Press, pp. 285–324.
- 7 May Fletcher, P.C. & Frith, C.D. (2009). Perceiving is believing: a Bayesian approach to explaining the positive symptoms of schizophrenia. *Nature Reviews Neuroscience*, 10, pp. 48–58.
- 14 May Murphy, D. (2012). The Folk Epistemology of Delusions. *Neuroethics*, 5(1), pp. 19–22.

Language groups

German Therapy

German Therapy meets **every Thursday during term time in Room P19 from 10–11.30am** to discuss German texts from the history and philosophy of science, be that sources or literature.

We are an informal group of beginners and advanced learners of German – all levels welcome. Feel free to bring texts you are struggling with. For more information or to be added to the mailing list, please email Susanne Schmidt.

Latin Therapy

Latin Therapy is an informal reading group. All levels of Latin (including beginners) are very welcome. We meet on **Fridays, 4.00–5.30pm in the Board Room**, to translate and discuss a text from the history of science, technology or medicine. If a primary source is giving you grief, we'd love to help you make sense of it over tea and biscuits! Thus we provide a free translation service for the Department, and a means for members to brush up their skills.

More information can be found at our website: www.hps.cam.ac.uk/latintherapy. To be added to the mailing list, or to suggest a text, please contact Tillmann Taape or Natalie Lawrence.

Arabic Therapy

The Arabic Therapy group meets **every Tuesday, from 3.00 to 4.30pm in Room P19**.

We are an informal group for beginners and more experienced learners who want to improve their Arabic language. Each week we spend a little time discussing some light grammar, before reading through a text together. For more information, or to be added to the mailing list, please contact Seb Falk.

Greek Therapy

Greek Therapy meets **every Wednesday during term time in the Board Room from 5.30 to 7pm**.

We are an informal group for beginners and for experienced readers of Greek seeking to brush up their skills – all levels are welcome. Sessions usually involve a basic grammar session at the beginning followed by reading through a more advanced text. For more information or to be added to the mailing list, please email Liz Smith.

