

Contents

The Department

Introduction.....	2
Staff and affiliates.....	3
Visitors and students.....	4
Comings and goings.....	5
Roles and responsibilities.....	6
Prizes, projects and honours.....	8
Seminars and special lectures.....	9

Students

Student statistics.....	10
Part II essay and dissertation titles.....	11
MPhil and Part III essay and dissertation titles.....	14
PhD theses.....	19

The Library

Annual report of the Whipple Library.....	21
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The Museum

Annual report of the Whipple Museum of the History of Science.....	25
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Individuals

Annual reports of members of the Department.....	33
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Seminar Programmes

Michaelmas Term 2010.....	74
Lent Term 2011.....	87
Easter Term 2011.....	98

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The Department

Introduction

In the academic year 2010-2011 the Department of History and Philosophy of Science has been thriving. Funding in excess of £3 million was successfully secured from the European Research Council, several new members of staff joined the Department and even some new arrivals were welcomed into the world; perhaps potential students in the future! The Department continues to go from strength to strength.

Tim Lewens will be leading one of the new research projects, 'A Science of Human Nature? Philosophical Disputes at the Interface of Natural and Social Science', which will run for five years. This large scale research project focuses on a series of philosophical issues that have arisen in debates over cultural evolutionary theory.

The second of these projects will be managed by Tiago Mata, who will be exploring 'Economics in the Public Sphere: USA, UK, France, Poland and Brazil since 1945' looking at how journalists report the economy.

Liba Taub has been very successful in finding funds to refurbish the wall cases in the Main Gallery, which has allowed the Museum to better display its world-class collection of scientific instruments. The Museum was also involved in a number of outreach events, offering something a little bit special to the community.

The Whipple Library has also had a busy year, in particular with the launch of the book blog which showcases specific books from the Whipple's large collection. The blog has proven popular, with posts from staff and PhD students on these books. The Library has also created a new online directory in order to access the wealth of material that exists in both the Department's library and Cambridge University as a whole.

The Department welcomed Rohan Deb Roy, joining as a Wellcome Research Fellow, Karin Ekholm as a Teaching Associate, Isla Fay as a Research Associate working on the Diagrams project and Louisa Russell as the new Receptionist.

We said goodbye to Elma Brenner, Alex Broadbent, Kevin Brosnan and Jenny Fox. We also said farewell this term to Graham Cunningham who retired at the end of the academic year. Tim Eggington took a new post as Librarian at Queens College and Francis Neary joined the Darwin Correspondence project full-time. We want to thank them for the invaluable contribution that they made to the Department and wish them well in their future endeavours. We would also like to extend a special thanks to Jim Secord who was Head of Department during the calendar year 2011.

As the year comes to a close, it is apparent from the Annual Report that the achievements of the Library, the Museum and the individuals have led to 2010-2011 becoming a most successful year. It is at this point that we would like to thank everyone who has worked hard to ensure that the Department remains at the forefront of education and research. You are the ones who are recognised as the true achievers of success.

January 2011

Staff and Affiliates

Administrative Staff

Jenny Fox
Tamara Hug
Agnieszka Lanucha
Louisa Russell
David Thompson

Computing Staff

Mark Rogers

Library Staff

Tim Eggington
Dawn Moutrey

Museum Staff

Steven Kruse
Derek Scurl
Alison Smith
Claire Wallace

Teaching Officers

Hasok Chang
John Forrester
Nick Hopwood
Lauren Kassell
Tim Lewens
Eleanor Robson
Simon Schaffer
Jim Secord
Liba Taub

Teaching Associates

Kevin Brosnan
Vanessa Heggie
Karin Ekholm
Alexi Baker

Research Fellows

Salim Al-Gailani
Marie-Francoise Besnier
Elma Brenner
Jacqueline Cahif
Andrew Cunningham
Graham Cunningham
Rohan Deb Roy
Isla Fay
Mike Hawkins
Natalie Kaoukji
Francis Neary
Hilary Powell
Ruth Prince
Rob Ralley
Jennifer Rampling
Nicky Reeves
Greta Van Buylaere
Lydia Wilson
John Young

Affiliated Lecturers

Patricia Fara
Marina Frasca-Spada
Sachiko Kusakawa
Deborah Thom
Frances Willmoth

Emeritus Professors

Nick Jardine
Michael Redhead

College Research Fellows

Adam Bostanci
Paul Dicken
David Feller
Stephen John
Melanie Keene
Russell Manning
Ayesha Nathoo
Mark Sprevak

Affiliated Scholars

Jon Agar
Robert Anderson
Lisa Appignanesi
Debby Banham
Andrew Barry
German Berrios
Sanjoy Bhattacharya
Peter Bowler
Angela Breitenbach
Alex Broadbent
Janet Browne
Adelene Buckland
Robert Bud
Tatjana Buklijas
Jeremy Butterfield
Cristina Chimisso
Soraya de Chadarevian
Alix Cohen
Peter Collins
Christopher Cullen
Silvia De Renzi
Mary Dobson
John Durant
Catherine Eagleton
Michael Edwards
Nader El-Bizri
Roger Gaskell
Jeremy Gray
Ole Grell
Philippa Hardman
Anne Harrington
Sonia Horn
Shelley Innes
Catherine Jami
Richard Jennings
Peter Jones

Ludmilla Jordanova
Eli Kingma
Martin Kusch
Gerald Kutcher
Emese Lafferton
David Leith
Chris Lewis
Geoffrey Lloyd
Helen Macdonald
Scott Mandelbrote
Anita McConnell
Christina McLeish
Simon Mitton
James Moore
Adam Mosley
Jaume Navarro
Onora O'Neill
Alison Pearn
Katy Price
Sadiah Qureshi
Chitra Ramalingam
Lisbet Rausing
Hauke Riesch
Leon Rocha
Martin Rudwick
Colin Russell
Christine Salazar
Anne Secord
Richard Serjeantson
Sujit Sivasundaram
Emma Spary
Alistair Sponsel
Jacqueline Stedall
Rebecca Stott
Laurence Totelin
Martin Underwood
Andrew Wear
Rick Welch
Paul White
Sarah Wilmot
Daniel Wilson
Eli Zahar

Other UoC People who do HPS

Rebecca Fleming
Joel Isaac
Martin Johnson
David Leith
Lee Macdonald
Scott Mandelbrote
Peter Mandler
Suji Sivasundaram
Richard Smith
Emma Spary
Simon Szreter

Visitors and Students

Visiting Scholars

Miruna Achim
Mary Fissell
Anja-Silvia Goeing
Nils Güttler
Anne Katrine Hansen
Mimi Kim
Susan Lettow
Cesare Maffioli
Agustín Malón
Josipa Petronic
Xavier Roqué
Babu Thaliath
Catherine Wilson
Weimin Xiong

Visiting Students

Hannah Burgess
Hauke Dopp
Nike Fakiner
Vangelis Koutalis
Francisco Orrego
Myma Perez
Ingrid Schnell
Alessandra Stocchetti
Juan Zaragoza-Bernal

PhD students

Alexandra Bacopoulous-Viau
Jennifer Bangham
Katy Barrett
Geoffrey Belknap
Jonathan Birch
Joanna Burch Brown
Sophie Brockmann
Mirjam Brusius
Michael Bycroft
Will Carruthers
Sean Dyde
Carl Fisher
Susannah Gibson
Natasha Goldberg
Ruth Horry
Jiri Hudecek
Boris Jardine
Jeremy Kessler
Katharina Kraus
Allison Ksiazkiewicz
Daniel Lim
Emily McTernan

Iris Montero-Sobrevilla
Lisa Mullins
Dmitry Myelnikov
Joshua Nall
Signe Nielsen
Jesse Olszynko-Gryn
Emma Perkins
Eoin Phillips
Alix Rogers
Joab Rosenberg
Joe Sandham
Minwoo Seo
Arianne Shahvisi
Katie Taylor
Nicholas Teh
Julie Walsh
Sophie Waring
Nicholas Whitfield
Joeri Witteveen
Alexander Wragge-Morley
Caitlin Wylie
Katharine Zimmerman

MPhil students

Andrena Ball
Christopher Blunt
Richard Gawne
Emma Griffin
James Hall
Oliver Hill-Andrews
Steve Irish
Robert Kubala
Jacob Orrje
Anaïs Rameau
Matthew Sample
Anna Schoefert
Christopher Wagner
Amy Williams
Lena Zuchowski

Part III students

Reuben Binns
Duncan Brannan
Netta Chachamu
Maddy Gregory-Clarke
William Cook
Christopher Donovan
Vashka dos Remedios
Natalie Lawrence
Esther Momcilovic

Joe Ryan
Merlin Sheldrake
Amy Sinclair
Georgina Wheeler
Louise Windo

Part II students

Lucy Akrell
Peter Atkinson
Sean Brennan
Christopher Campbell
Helen Campbell
Anne Carter
Eoin Carter
April Cashin-Garbutt
Natalie Christie
Alistair Cliff
Dora Coventry
Sophie Davies
Faraz Dianat
Craig Docherty
Simon Dyke
Kavi Fatania
Andy Gales
Nicholas Goodwin
Cassia Hare
Pip Johnson
John Kelly
Antonia McLean
Sophia Mohun Kemp
Rory Nath
Anna Nicholson-Lailey
Esther Odida
Thomas Portch
Helen Prasad
Bernard Redman
Michael Reid
Sophie Russell
Reuben Shiels
Neelo Shrivastava
Jack Stevens
Tanmay Suri
Nathan Thomas
Alice Thwaite
Sara Timms
Isabel Wilson
Tristan Withers
Jessica Wong

Comings and Goings

Elma Brenner left us in the summer of 2011 to move on to a Mellon Fellowship at the Pontifical Institute of Mediæval Studies in Toronto and was awarded a one month Dr. and Mrs James C. Caillouette Fellowship at the Huntington Library in San Marino.

Graham Cunningham retired from the Department in September 2011.

Rohan Deb Roy joined us in January as a Wellcome Research Fellow.

Tim Eggington left to take up a new post as Librarian at Queens College

Karin Ekholm started in January as a Teaching Associate and is currently standing in for Lauren Kassell.

Isla Fay became part of the Department in March to work on the Diagrams project.

Jenny Fox left at the end of the year to become an Accounts Clerk in Pharmacology and run a chocolate fountain business!

Vanessa Heggie was appointed to a two-year Teaching Associateship in History of Modern Medicine and Biology.

Francis Neary left to join the Darwin Correspondence project full-time.

Sadiah Qureshi left us in September 2011 to take up a Lectureship in Modern History at the University of Birmingham.

Louisa Russell joined the Department as our new Receptionist in April 2011.

Roles and Responsibilities

Departmental Positions

Head of Department: Professor John Forrester (M), Professor Jim Secord (L, E)

Administrative Officer: Ms Tamara Hug

Director of Graduate Studies: Dr Tim Lewens (M), Professor Simon Schaffer (L, E)

MPhil and Part III Manager: Dr Eleanor Robson

Part II Manager: Dr Lauren Kassell

Part IB Manager: Dr Nick Hopwood

Staff Development Officer: Professor John Forrester (academic staff), Tamara Hug (support staff)

Dignity Officer: Professor Liba Taub

College Liaison Officer: Dr Lauren Kassell

Chair Monitoring Committee: Dr Lauren Kassell

Graduate Training Officer: Dr Eleanor Robson

HPS Board and Degree Committee

Chair of the HPS Board and Degree Committee: Professor Jim Secord (M) and Professor Simon Schaffer (L, E)

Professors and Readers: Professor Hasok Chang, Professor John Forrester (Head), Professor Liba Taub, Dr Eleanor Robson, Dr Tim Lewens

Curator and Director of the Whipple Museum: Dr Liba Taub

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

Librarian: Dr Tim Eggington

General Board Members: Dr Michael Bravo and Professor Megan Vaughan

Co-options: Dr Kevin Brosnan, Professor Tim Crane, Dr Vanessa Heggie, Dr Nick Hopwood, Dr Lauren Kassell

Elected Members: Dr Elma Brenner, Dr Sachiko Kusakawa, Dr Sadiya Qureshi, Dr Sujit Sivasundaram

Junior Members: Undergraduates: Vashka Dos Remedios (Peterhouse), Esther Odida (Jesus). Graduate: Kathryn Schoefert (Downing)

Philosophy Faculty Board

HPS Representative: Professor Hasok Chang

Examiners

NST Part IB History and Philosophy of Science

Senior Examiner: Professor Hasok Chang

Examiners: Dr Salim Al Gailani, Dr Kevin Brosnan, Dr Sacha Golob, Dr Jennifer Rampling, Professor Simon Schaffer

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

Senior Examiner: Dr Eleanor Robson

External Examiner: Dr John Henry (University of Edinburgh)

Examiners: Dr Vanessa Heggie, Dr Nick Hopwood, Professor Nicholas Jardine, Dr Stephen John, Dr Lauren Kassel, Dr Marina Frasca-Spada

MPhil in History, Philosophy and Sociology of Science, Technology and Medicine

Senior Examiners: Professor Jim Secord and Dr Nicky Reeves

External Examiners: Dr Serafina Cuomo (Birkbeck, University of London)

Prizes, Projects and Honours

Student Prizes

Alistair Cliff was awarded the 2011 Jacob Bronowski Prize for best performance in the HPS Part II course.

Nick Goodwin was awarded the Fifth Annual Francis Willmoth Prize for best performance in the dissertation component of the PHS Part II course.

Merlin Sheldrake was awarded the Second Annual Lipton Prize for the best performance on the NST III HPS Course.

Anna Kathryn Schoefert was awarded the 14th Annual Jennifer Redhead Prize for best performance in the essay component of the MPhil course and the 8th Annual Rausing Prize for the best performance in the dissertation component of the MPhil.

New Research Projects

European Research Council:

A Science of Human Nature? Philosophical Disputes at the Interface of Natural and Social Science, Tim Lewens, 2011 to 2016

This project will run under the direction of Tim Lewens (Reader in the History and Philosophy of Biology, Medicine and Bioethics) and will also employ a research assistant, two postdoctoral fellows, and two doctoral students.

European Research Council:

Economics in the Public Sphere: USA, UK, France, Poland and Brazil since 1945, Tiago Mata, 2011 to 2016

Tiago Mata will be directing this project, working alongside two postdoctoral fellows, two doctoral students and a research assistant.

Seminars and Special Lectures

Wellcome Lecture

Mary Fissell (Johns Hopkins University) delivered the sixth Cambridge Wellcome Lecture in the History of Medicine on 20 January 2011 on the subject 'Encountering *Aristotle's Masterpiece*, or how to find a racy book about reproduction'.

Rausing Lecture

Dr Celina Fox delivered the Sixteenth Annual Hans Rausing Lecture at the McCrum Lecture Theatre on 26 May 2011 on the subject of 'Surveying the scene, engineering the machine: Drawing things together in the Age of Enlightenment'.

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

Departmental Seminars in the Department of History and Philosophy of Science organised by Nicky Reeves.

Research Topics and Resources Seminars organised by Tim Lewens and Eleanor Robson.

History of Medicine organised by Nick Hopwood, Lauren Kassell and Francis Neary.

Cabinet of Natural History organised by Caitlin Wylie.

Twentieth Century Think Tank

HPS History Workshop organised by Sophie Brockmann and Alexandra Bacopoulous-Viau.

Philosophy Workshop organised by Sacha Golob and Emily McTernan.

Metaphysics Reading Group organised by.

Science and Literature Reading Group organised by Daniel Friesner, Melanie Keene and Liz Smith.

History and Theory Reading Group organised by Jenny Bangham, Hasok Chang, Katharina Kraus and Jenny Rampling.

Evolution Reading Group organised by Katie Zimmerman.

Generation to Reproduction Reading Group

Latin Therapy organised by Susannah Gibson.

Greek Therapy organised by Liz Smith.

Kant Reading Group organised by Katharina Kraus.

AD HOC organised by Hasok Chang and Jenny Rampling.

Philosophy of Science organised by Hasok Chang and Jonathan Birch.

Philosophy of Biology organised by Joeri Witteveen and Jonathan Birch.

Medieval Medicine Discussion Group organised by Hilary Powell.

Twentieth-Century Biology Reading Group organised by Jenny Bangham and Dmitriy Myelnikov.

Particles and Fields Reading Group organised by Jeremy Butterfield and Hasok Chang.

Student Statistics

Student Numbers

Undergraduates	Part IB	79
	Part II	39
	Part II BBS: History and Ethics of Medicine	31
	Part III	14
Graduates	MPhil.....	14
	PhD.....	47

Examination Results

Part II	1	11 (28%)
	2i	25 (64%)
	2ii	3 (8%)
	3	0
	Fail	0
Part II BBS: History and Ethics of Medicine	1.....	7 (22%)
	2i.....	18 (56%)
	2ii.....	5 (16%)
	3.....	1 (3%)
	Fail.....	0
Part IB	1	3
	2i.....	51
	2ii.....	24
	3.....	1
	Fail.....	0

Graduate Degrees Awarded

MPhil degrees awarded.....	14
Part III degrees awarded	14
PhD degrees award	6

Part II Essay and Dissertation Titles

Primary Source Essays

Paper 1: Classical Traditions in the Sciences

- Balasi – scholar and Royal favourite
- Conflict in correspondence: A survey of disputes and discrepancies in the communications of Assyrian scholars
- Public ceremony and private discretion in the sacrificial divination reports
- Rethinking the ‘grand dichotomy’: scholarly relationships, canonical texts and intimacy within the ancient Assyrian Court
- The Mesopotamian healing profession revisited: asû and asipu in the context of the Neo-Assyrian court
- “These words are rubbish!” Conflict and uncertainty amongst Assyrian scholars

Paper 2: Natural Philosophies: Renaissance to Enlightenment

- A comparison of the historical writings of Joseph Priestly and Sir John Pringle
- Given that the Copley Medal speeches had never previously been printed, why did Pringle’s first discourse as president, about Priestly’s “On the different kinds of air,” get published?
- Pringle, Walsh and the Torpedo Fish
- Sir John Pringle’s disciplinary histories: legitimization, continuity and nationalism
- The Copley Medal discourses as a tool of Sir John Pringle to advance his work on scurvy
- Why might Sir John Pringle have needed to justify his award of the Copley medal to Charles Hutton?

Paper 3: Science, Industry and Empire

- Charles Darwin and the evolution of Joseph Dalton Hooker’s philosophical botany
- Correspondence between Kingsley and Darwin
- Darwin as a mentor: the scientific correspondence between John Scott and Charles Darwin.
- Darwin in a muddle: What was Darwin trying to accomplish in his correspondence with Gray on the subject of design in nature?
- Darwin the Strategist: publication of ‘Origin’ abroad
- Did Edward Blythe’s correspondence help Charles Darwin to overcome key problems outlined in his 1842 and 1844 essays?
- Did Darwin’s political agenda outweigh his science? Why Darwin dismissed Reade’s ideas on the theory of racial origins
- Discuss how and why Darwin wrote differently about religious issues to different correspondents in the 1860s
- Discuss the relationship between Darwin’s life, work and nineteenth century views towards women
- Explore Charles Darwin’s valuation of the female intellect. How are his views regarding gender relations reflected in his private correspondence?
- Friendship and controversy in the correspondence of Darwin and Owen
- Henrietta and William Darwin both contributed to their father’s work, yet only William was acknowledged publicly. Was this a personal matter, or one relating to the period the children were living in?
- How does the early exchange of letters between Charles Darwin and Joseph Dalton Hooker show why Darwin confessed murder to Hooker?
- How and why did Charles Darwin present his argument against the idea that variation had been led, differently in correspondence to Asa Gray and Charles Lyell?
- How true is it to say that the correspondence between Charles Kingsley and Darwin was mutually beneficial?
- How valuable were Christian Gaika’s response to Charles Darwin’s ‘queries about expression’ as evidence for his work on the expression of the emotions in man and animal?
- How was Darwin’s contribution to the late-nineteenth century vivisection debate shaped by attitudes to gender?
- On Charles Darwin’s inclusion of the slave-making instincts of ants in the ‘Origin of the Species’
- The lucky fossil: The importance of the armadillo in the development of Charles Darwin’s transmutation theory

- What, if anything, did Charles Darwin hope to gain from sending an advance copy of ‘On the Origin of Species’ to Adam Sedgwick?

Paper 4: Metaphysics, Epistemology and the Sciences

- An assessment of the observable/unobservable distinction in Bas Van Fraassen’s the scientific image
- Constructive Empiricism and microscopic objects
- Does constructive empiricism add up?
- Does Van Fraassen’s alternative to the Ultimate Argument succeed against Musgrave’s criticisms?
- Is it Bas Van Fraassen or Ian Hacking who used the light microscope correctly?
- Is Musgrave’s criticism of the observable/unobservable distinction a problem for the constructive empiricist?

Paper 5: Science in Society

- Dark matter and modified gravity: A study of how scientific controversies are settled
- Do Latour’s trials of strength fall at the hurdle of hylozoism?
- How can a consideration of education help us to extend Latour’s programme for studying science in society to the realm of “ready-made science?”
- Latour in action: The use of rhetoric to illustrate rhetoric

Paper 6: History and Philosophy of Mind

- Foucault on games (‘jeux’) in psychiatric power
- Foucault on truth in psychiatric power
- Foucault’s panopticon
- How do Foucault’s concepts of disciplinary and sovereign power affect his account of the role of the family in the history of psychiatry?
- How does the asylum cure the mad?
- “Power, it does not exist.” And examination of the analysis of power in psychiatric power
- Saluting the hysterics: Antipsychiatry in psychiatric power

Paper 7: Medicine from Antiquity to the Enlightenment

- Comparison of Helkiah Crooke and John Banister’s anatomical works
- Defining womanhood in Helkiah Crooke’s ‘microcosmographia’ (1615)
- Helkiah Crooke’s microcosmographia (1615) and the ‘one-sex model’
- Man and the universe: The use of the microcosm in Helkiah Crooke’s microcosmographia
- Notions of perfection in Helkiah Crooke’s ‘microcosmographia’
- Objections to the publication of Helkiah Crooke’s microcosmographia: A description of the body of man (1615)
- The effusion of seeds is altogether necessary, otherwise it were not a generation, but a new creation: How did Crooke reconcile conflicting sources regarding the existence of female ‘seed’ in microcosmographia (1615)?
- The epitome of anatomy: early modern understandings of female sexual pleasure and their presentation in Helkiah Crooke’s microcosmographia

Paper 8: Modern Medicine and Biomedical Science

- “An unprecedented photographic feat”. How did ‘Drama of life before birth’ differ from earlier representations of fetuses and embryos in Life magazine?
- Drama of life before birth: The question of iconicity
- Foetal voyager explored: the significance of space in ‘Drama of life before birth’
- How and why were Lennart Nilsson’s photographs from the Life photo-essay ‘Drama of life before birth’ used so widely in the 1960s and 1970s?
- How and to what extent did ‘Drama of life before birth’ differ from earlier representations of embryos and fetuses, especially in Life magazine?
- How does the drama of life before birth compare to earlier and later representations of embryos and fetuses in life?
- In what ways can the 1965 and 1990 photo-essays: ‘Drama of life before birth’ and ‘the first days of creation’ by Lennart Nilsson be compared?
- Sacred images: the ‘divine’ in the production and use of Lennart Nilsson’s foetal photography

- “The easygoing high school science teacher”: Life magazine and the ‘Drama of life before birth’?
- To what extent did Lennart Nilsson’s pictures in the ‘Drama of life before birth’ shape the ideology of foetal personhood?
- To what extent was ‘Drama of life before birth’ ‘made to order’ for the antiabortion cause?
- Were Nilsson’s photographs in ‘Drama’ anti-abortion images in the 1960s?

Paper 9: Images of the Science

- Does the Vienna circle’s manifesto have a national character?
- How did the practical content of the Manifesto get there? Is it consistent with the philosophical position also promoted within the text?
- How does the science of perception add to the problem of theory-ladenness for Logical Positivism?
- How far does the Vienna Circle’s Manifesto reflect Otto Neurath’s social agenda?
- Neurath, Ideology and Wissenschaftliche Weltauffassung
- Tensions in the Vienna Circle’s manifesto regarding the ‘Unity of Science’
- The protocol statement and the unity of the Vienna circle
- To what extent can the downfall of the Vienna Circle Manifesto be attributed to the works of Quine and Kuhn?

Dissertations

- Antarctic exploration: practical science on expeditions and in polar literature
- Beyond Technoutopianism and Neo-Luddism: an analysis of the discourses on Facebook
- Can truth and selectivity exist side by side as explanations for the success of science?
- Comment and critique: evolutionary theories of morality
- Explanation and the realism debate in the context of intelligent design and evolutionary theory
- Given the notion of incommensurability, can Thomas Kuhn still hold that science progresses?
- Images of scientists in recent films
- Medicalising morality: smoking and health in the late nineteenth century
- Model evidence: anecdote and epistemology in Charles Darwin’s exposition and proof of natural selection theory
- Monoclonal antibody therapy
- Oliver Lodge, James Jeans and the relativity debate
- On the role of ‘scientific naturalism’ in the development of professional relationships in late Victorian Britain
- Our duty to protect species in individualistic and holistic ethics
- Police radicalism and philosophical materialism in medicine: how Thomas Wakley and his Lancet brought them together
- Research into everyday life at the Applied Psychology Unit, Cambridge, 1950s-1960s
- Responses to disease and disability in late 13th-century Paris: a study of Guillaume de Saint-Panthus’ ‘Miracles de Saint Louis’
- Science, politics and morality: an exploration of the controversies around HIV/AIDS prevention policy in Uganda
- Science reporting in Kenyan newspapers: the case of male circumcision trials and public health interventions to reduce HIV transmission
- ‘Test-tube babies’ in the British media, 1969-71
- The formation of neurology as a specialism in the United Kingdom
- The impact of the importation of Western medicine into colonial Africa
- The narrative of gender: re-reading the David Reimer case beyond Money and Diamond
- The role of photography in 1920s archaeology
- The switch-on of the large hadron collider as media event
- Why was the coincidence theory of consonance generally accepted in the seventeenth century ahead of Kepler’s?
- Why an evolved morality is free of a will

MPhil and Part III Essay and Dissertation Titles

MPhil Essay and Dissertation Titles

Andrena Ball

Essays

Reading Nicomachus (supervised by Liba Taub)

Scientific societies – women students in late Victorian Cambridge (supervised by Patricia Fara)

John Nicholson – an 18th-century Cambridge bookseller (supervised by Nicky Reeves)

Dissertation

Alchemy and patronage in Elizabethan England (supervised by Jenny Rampling)

Christopher Blunt

Essays

"Failure to discriminate": responses to Stanford's criticisms of Psillos' 'Selective Realism' (supervised by Tim Lewens)

Evaluating 'cohort multiple randomised controlled trials' (supervised by Stephen John)

Scientific pluralism and the problem of demarcation (supervised by Hasok Chang)

Dissertation

Hierarchies of evidence – not what the doctors ordered? The case against hierarchies in evidence-based medicine (supervised by Stephen John)

Richard Gawne

Essays

Rethinking the legacy of J.H Woodger and the history of twentieth-century philosophy of biology (supervised by Kevin Brosnan)

A critical evaluation of thought experimentation in standard analytic philosophy (supervised by Hasok Chang)

Fossil evidence in Darwin's Origin of Species (supervised by Jim Secord)

Dissertation

Rethinking the legacy of J.H. Woodger (supervised by Nick Jardine)

Emma Griffin

Essays

Constructing the scientific expert on 'tobacco control': the politician as scientist in the New York City Smoke Free Air Act of 2002 (supervised by Jim Secord)

Turing's haunted-universe doctrine and the function of interdisciplinarity in cognitive science (supervised by Hasok Chang)

Why is the abandonment objection an objection? Moral intuitions, reflective equilibrium and the problem of providing healthcare to imprudent patients (supervised by Stephen John)

Dissertation

Calculating credibility: Turing's 'On Computable Numbers' and the legitimization of computationalist programmes in cognitive science (supervised by Simon Schaffer)

James Hall

Essays

Controversy and character: mid-Victorian disputes over fossil elephants (supervised by Jim Secord)
Determining the medical and moral character of tea in the eighteenth century (supervised by Emma Spary)
Experimental investigations into the Indian serpents (supervised by Sujit Sivasundaram)

Dissertation

The races of cattle: acclimatization and classification between India and Britain (supervised by Jim Secord)

Oliver Hill-Andrews

Essays

Letters, print and authority in the Valentine Greatrakes controversy (supervised by Nicky Reeves)
William Cecil Dampier Whetham and his racial history of science (supervised by Nick Jardine)
Rayleigh, Tyndall and sensitive flames (supervised by Simon Schaffer)

Dissertation

The constituency of reason: Michael Foster and science in parliamentary politics (supervised by Jim Secord)

Stephen Irish

Essays

The method of indivisibles: infinitistic techniques in Cavalieri's geometry (supervised by Jacqueline Stedall)
Wollaston, crystallography and the atomic theory (supervised by Hasok Chang)
Values and inductive risk in scientific research (supervised by Kevin Brosnan)

Dissertation

Chemical constitution from algebraic analysis: the chemical calculus of Sir Benjamin Collins Brodie (supervised by Hasok Chang)

Robert Kubala

Essays

Models and perspectives: an assessment of Giere's realism (supervised by Hasok Chang)
Fact and value, science and ethics: a pragmatist assessment of Hilary Putnam and Sam Harris (supervised by Nick Jardine)
The evidentiary status of functional neuroimaging for cognitive science (supervised by Kevin Brosnan)

Dissertation

Trope Theory and the philosophy of perception (supervised by Tim Crane)

Jacob Orrje

Essays

Objectivity in literature: images of the artist and scientist (supervised by Katy Price)
Visions of virtual reality (supervised by Hasok Chang)
Craftsmen and Enlightenment science (supervised by Simon Schaffer)

Dissertation

Swedish spies overseas: national identity and the circulation of naval science in 18th-century London (supervised by Simon Schaffer)

Anaïs Rameau

Essays

From GOR to GORD and NERD: a biography of gastro-oesophageal reflux disease (supervised by Nick Hopwood)
Should physicians participate in the debate on the nature of health and disease? (Supervised by Kevin Brosnan)

The limitations of evidence-based medicine as an epistemological paradigm (supervised by Stephen John)

Dissertation

Does scientific pluralism offer a sound epistemological framework for medicine? (supervised by Hasok Chang)

Matthew Sample

Essays

Achieving security, precipitating rupture: Bridgman and Bachelard on the role of operations in science (Hasok Chang)

Performance and trust in the vaccine debates (supervised by Simon Schaffer)

Necessity and truth in Whewell's philosophy of science (supervised by Nick Jardine)

Dissertation

Saving the post-Kantian a priori: an analysis of scientific solutions and their justifications (supervised by Hasok Chang)

Anna Kathryn Schoefert

Essays

Placing a laboratory: botanical buildings in Cambridge around 1900 (supervised by Jim Secord)

Charting a science: Joseph Needham maps the history of biochemistry and physiology (Cambridge, c. 1924) (supervised by Simon Schaffer)

Dissecting a practice: post mortems and general practitioners in 1950s England (supervised by Nick Hopwood)

Dissertation

Researching the brain: the Corsellis collection at Runwell Hospital in the 1950s (supervised by Nick Hopwood)

Christopher Wagner

Essays

Nineteenth-century influences on the early occult thought of Carl Gustav Jung (supervised by John Forrester)

"Into the outer darkness": contagion and the mentally corrupt in Paracelsus's *Liber de lunaticis* (supervised by Jenny Rampling)

The development of Frederic Myers' 'subliminal self' (supervised by German Berrios)

Dissertation

A critique of Carl Jung's reading of the Sol und Luna Bildgedicht (Picture Poem) in 'The Psychology of the Transference' (1946) (supervised by Jenny Rampling/Sonu Shamdasani)

Amy Williams

Essays

Hot stuff: conceptions of sexual difference in early modern England (supervised by Lauren Kassell)

"Be her own physician": a comparison of two early modern English printed and manuscript remedy books (supervised by Peter Jones)

Old before his time: a discussion of Harvey's report on Old Port's autopsy (supervised by Karin Ekholm)

Dissertation

Constructing bodies: a discussion of anatomical teaching in early modern medical education (supervised by Lauren Kassell)

Lena Zuchowski

Essays

The impact of chaos theory (supervised by Hasok Chang)

The silence of the physicists (supervised by Simon Schaffer)

Mental health, the DSM and crime (supervised by Vanessa Heggie)

Dissertation

Defining complexity: a case for a definition by entropy development (supervised by Jeremy Butterfield)

Part III Essay and Dissertation Titles

Reuben Binns

Essays

Who has scientific knowledge? Recent work in social epistemology (supervised by Stephen John)

Multiple realisability and mental causation: a problem for non-reductive physicalism (supervised by Nick Treanor)

Dissertation

Deontological justifications of intellectual property rights: a critique (supervised by Stephen John)

Duncan Brannan

Essays

Recondemning biological essentialism (supervised by Tim Lewens)

Doctor knows best? The mortality of medical testimony in uncertain situations (supervised by Stephen John)

Dissertation

From the edge of extinction: an examination of the virtues of last-ditch species preservation (supervised by Kevin Brosnan and Helen Macdonald)

Netta Chachamu

Essays

Philosophy as drag: performativity and passing in feminist philosophy (supervised by John Forrester)

Operationalizing psychological concepts: a philosophical critique (supervised by Stephen John)

Dissertation

The ethics of research into changing people's sexual preferences (supervised by Stephen John)

William Cook

Essays

Botanical exchange in the Iberian-American world, c.1770–1820 (supervised by Nick Jardine)

Degeneration and Lamarckism in H.G. Wells's *The Island of Dr Moreau* (supervised by Paul White)

Dissertation

The botanical specimens of Thomas Dale in the Martyn Herbarium (supervised by William Cook)

Chris Donovan

Essays

Epistemic values and objectivity (supervised by Hasok Chang)

Is the fact/value dichotomy an illusion?

Dissertation

What is practical knowledge? (supervised by Hasok Chang)

Vashka dos Remedios

Essays

Kuhn's evolutionary epistemology (supervised by Tim Lewens)

Neurath, universal jargon and isotype (supervised by Hasok Chang)

Dissertation

Undermining the foundations of philosophy or cementing the gaps in theories of causation? Lakoff and Johnson's conceptual theory of metaphor (supervised by Hasok Chang)

Madeleine Gregory-Clarke

Essays

Was 'Big Science' a consequence of the Manhattan Project? (supervised by Simon Schaffer)
Risk and nuclear power (supervised by Stephen John)

Dissertation

Nunn May, tacit knowledge and the role of the atom spies (supervised by Simon Schaffer)

Natalie Lawrence

Essays

Collecting culture in the seventeenth and eighteenth centuries: the lepidopterist's perspective (supervised by Jim Secord)
The Prime Minister and the platypus: a paradox goes to war (supervised by Nick Jardine)

Dissertation

Birds of paradise and collecting Eden (supervised by Anne Secord)

Esther Momcilovic

Essays

Romantic genius in early nineteenth-century geology: a literature review (supervised by Jim Secord)
"Arcturus is his other name": Emily Dickinson's use of scientific language in her poetry (supervised by Katy Price)

Dissertation

Riding the Iguanodon to immortality: discovery in 19th-century geology (supervised by Jim Secord)

Joe Ryan

Essays

Towards a history of foetal subjects (supervised by Nick Hopwood)
Race and progress in William Holman Hunt's 'A Converted British Family Sheltering a Christian Priest from the Persecution of the Druids' (supervised by Jim Secord)

Dissertation

The early history of ethology in Cambridge (supervised by Helen Macdonald)

Merlin Sheldrake

Essays

Botanical encounters in the 18th and 19th centuries
"Good old fashioned muck": Albert Howard and the mycorrhizal symbiosis

Dissertation

What's in a name? Hereos and visions in Amazonian ethnobotany

Amy Sinclair

Essays

Two cases of patient activism in twentieth-century America: mental hygiene and AIDS
Issues around medical research and clinical trials in Africa: what is best practice and what are its limitations?

Dissertation

Globalisation and its consequences for the ethical issues surrounding global public health

Georgina Wheeler

Essays

Venereal disease in the interwar period: stories of control and resistance

PhD students' views on the nature of science and their own research

Dissertation

Lesbians and artificial insemination in Britain

Louise Windo

Essays

Communicating global warming

Edward Lear, nonsense naturalist

Dissertation

Boyle's glow-worms: reflections on experiments and experimental reflections

PhD Theses

Awarded

Sophia Davis

'Britain an island again: nature, the military and popular views of the British countryside, 1930-1965'
(Supervised by Nick Jardine)

David Feller

'The hunter's gaze: Charles Darwin and the role of dogs and sport in 19th century natural history'
(Supervised by Jim Secord)

Daniel Lim

'Necessitarian dualism: carving a path between type-B physicalism and property dualism'
(Supervised by Martin Kusch)

Sasha Mudd

'Unity in thought and action: the categorical imperative as the common principle reason in Kant'
(Supervised by Nick Jardine and Onora O'Neill)

Leon Rocha

'Sex, Eugenics, Aesthetics and Utopia in the life and work of Zhang Jingsheng (1888-1970)'
(Supervised by John Forrester)

Alireza Taheri

'An analysis of pathological forms of guilt and aggressivity in the work of Nietzsche, Freud, Lacan and Laplanche'
(Supervised by John Forrester)

Submitted

Geoffrey Belknap

'From a Photograph: Photography and the Periodical Print Press, 1870-1890'.
(Supervised by Simon Schaffer)

Mirjam Brusius

'Preserving the Forgotten: William Henry Fox Talbot, Photography and the Antique.'
(Supervised by Simon Schaffer)

Natasha Goldberg

'selfish genes and nature's joints: the Role of Metaphore in the Realism/Relativism Depate in Philosophy of Science.'
(Supervised by Eleanor Robson)

Jiri Hudecek

'You do yours and I do mine: Wu WenTsun and Traditional Chinese Mathematics.'
(Supervised by Tim Lewens)

Alexander Wragge Morley

'the Work of Representing Natural Things in England 1650-1720'.
(Supervised by Simon Schaffer)

Sam Nicholson

'Pessimistic inductions and the tracking condition'
(Supervised by Tim Lewens)

Signe Nipper Nielsen

'From the 'Workshop of Wonders': observing generation in Danish medicine, 1650-1800)
(Supervised by Lauren Kassell)

Iris Montero Sombrevilla

'Transatlantic Hum: natural history and the itineraries of the torpid hummingbird, c. 1500-1800'.
(Supervised by Nick Jardine)

Joe Sandham

'Worlds Apart: A Defence of Nelson Goodman's Handling of Induction in the Context of his Wider Philosophy'.
(Supervised by Marina Frasca-Spada)

Katie Taylor

'Communicating Mathematics through Vernacular Books in Elizabethan England.'
(Supervised by Nick Jardine and Liba Taub)

Nick Whitfield

'A Genealogy of the Gift: Blood Donation in London, 1921-1946'.
(Supervised by Nick Hopwood)

Lydia Wilson

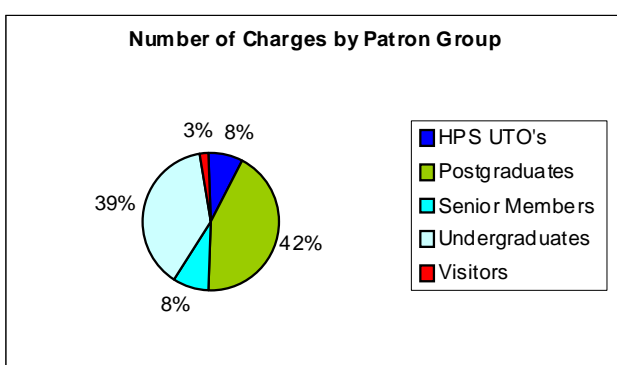
'Ancient medieval structures of knowledge: Situating al-Farabi's 'Enumeration of the Sciences''
(Supervised by Nick Jardine and James Montgomery)

The Library

The increase in student numbers of the past couple of years together with the changing complexion of Library provision more generally is having a marked impact on the services provided by the Whipple Library. Whereas the Whipple previously focused largely upon the acquisition and loan of books on reading lists an increasing proportion of our time is now devoted to user-education, the provision of electronically scanned teaching materials, and collaboration in University-wide initiatives concerning electronic journals and books. This evolving information landscape has helped to make 2011 a busy and interesting year for the Whipple and HPS information resources more generally. This year the Library has been staffed by Tim Eggington (Librarian) and Dawn Moutrey (Library Assistant) and Agnieszka Lanucha (part-time Library Assistant).

Reader Statistics

Despite the considerable escalation in the availability of electronic resources and teaching materials in digitised form, there have been 13,021 book issues this year, only slightly fewer than the average of the past four years (which has been 13,494). An interesting trend has been in the steady increase in postgraduate as opposed to undergraduate issues. Whereas undergraduate borrowers have historically been our biggest user group, this year, for the first time, postgraduate book issues exceeded those to undergraduates by 3%.



Top Five Most Borrowed Books

Charges	Shelf mark	Book
47	S7.MOR 1	I. R. Morus, <i>When physics became king</i>
34	W7.BRU 2.1	D. Brunton (ed.), <i>Medicine transformed : health, disease and society in Europe, 1800-1930</i>
30	W8.COO 7	R. Cooter and J. Pickstone (ed.), <i>Medicine in the twentieth century</i>
27	IA.CUR 1	M. Curd and J. Cover (ed.), <i>Philosophy of science : the central issues</i>
19	V3.JAR 1	N. Jardine, J.A. Secord, & E.C. Spary, <i>Cultures of natural history</i>

Electronic Developments/CamTools

Earlier in the year a significant decision was taken that the Library should undertake the task of administering the provision of HPS teaching resources on the University's virtual learning environment, CamTools. This constituted a logical extension of an initiative introduced last year when the Library scanned and made accessible via CamTools all the MPhil/Part III required readings. This year, scanned readings were also made available to undergraduates, to the extent that for some papers nearly all readings are available electronically. Students are now able to access required readings without ever needing to come into the Library. In addition, we have also changed the appearance of the CamTools interface to better integrate access to HPS library resources (catalogues, e-journals, ebooks, etc.) with teaching materials such as reading lists and lecture handouts. We hope that students will now find it easier to navigate their way around the often confusing array of electronic and printed resources available to them.

This expansion in the Department's provision of teaching materials via CamTools complements the broader, ever-increasing focus upon electronic provision taking place in academia more generally. An area of particular

importance has been the University's burgeoning collection of HPS ebooks which now constitutes an integral element in our teaching provision. As well as proving a welcome convenience to our users, ebooks ease pressure on the Whipple Library's shelf space and books budget. A regularly updated web page of available HPS ebooks is accessible via the ebooks section of the Whipple Library website. The Whipple Library plays an active part in the University's ebooks@cambridge scheme, both in developing HPS related holdings and through a financial contribution.

More generally, further Whipple journal subscriptions became available online this year and some significant enhancements were made to the provision of HPS-relevant electronic resources by the UL. These include the following (links can be found on the Whipple Library web pages):

Illustrated London News Online

Early European Books Online (providing access to works printed in continental Europe before 1701)

The Intelix Past Masters Collection (includes the collected works of Wittgenstein (Blackwell) and Boyle (Pickering & Chatto))

Journals

The Whipple Library continued to benefit from the School's membership of the University's Journals Coordination Scheme, now in its third year. Approximately a third of Whipple journal subscriptions are included in the scheme, thereby achieving a substantial cost saving owing to the fact that Whipple journals in the scheme are paid at 2008 prices (the scheme pays subsequent inflationary increases). The Whipple Library continues to subscribe individually to those journals not included in the scheme. In total we now subscribe to 83 periodicals (including those in the JCS) 72 of which are also available in electronic form.

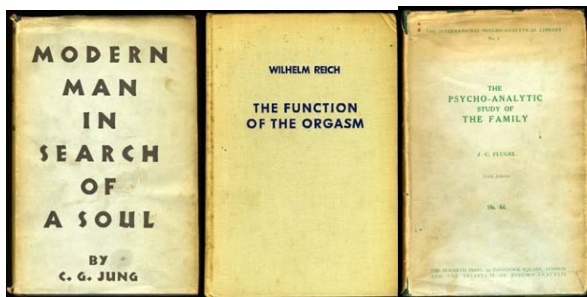
In exchange for a 10% reduction in subscription price from the publisher, The Journals Coordination Scheme this year took the decision to purchase Springer journals in electronic form only. The Whipple Library Committee was happy to endorse this decision.

Gifts and Transfers

Over the Summer Jim Secord and Library staff visited Cambridge University Medical Library to examine a large consignment of important 18th-20th century medical books due for de-accessioning. Of particular interest were an extensive number of huge pamphlet volumes, some of them containing unique items of special interest to historians of medicine and reflective of the University's historic work in this area. Following discussions with UL Special Collections staff these volumes have been moved to The UL where the unique and rare items will be extracted and preserved. In addition, the Whipple was able to take around 60 medicine books, bringing the total transferred from the Medical Library to the Whipple over the past three years to 256. This most recent tranche includes books previously owned by Sir T. Clifford Allbutt (1839-1925), Regis Professor of Physic at Cambridge and inventor of the first short clinical thermometer; Alfredo Antunes Kanthack (1836-1898) who held the Chair of Pathology and after whom Cambridge's Pathology Library is named; and Sir George Murray Humphry (1820-1896) who held professorships in human anatomy and surgery and was the youngest hospital surgeon in England when he started working at Addenbrooke's in 1842. In addition to pathology and anatomy, subjects covered include early studies of medical institutions, such as St Bartholomew's in London and the Radcliffe Infirmary in Oxford. The collection has now been catalogued and can be found on Newton by searching for 'University of Cambridge, Medical Library'.



The Whipple also received an important gift, described by John Forrester as ‘A fine collection of mid-century psychology and sociology books, often first editions, and including some very rare items (first editions of James's Principles, first editions from Wilhelm Reich's first years in the USA, first editions of translations of Jung into English).’ The books have all been catalogued on Newton and are searchable via the name of their former owner ‘D.H. Crompton’ to whose family the Whipple is most grateful.



New Book Acquisitions

The Library's holdings now stand at 43,082 books and pamphlets. The Library continued to benefit from the support offered by Cambridge University Press to College and University libraries, through the allocation of £2,600 for the purchase of Press titles.

Links with the UL

The Whipple Library has continued to develop links with University Library in order to ensure that the University as a whole continues to preserve, and develop its extensive history of science collections. Discussions with UL special collections staff concerning Medical Library books (described above) represent just one element in this strategy. Whipple Library staff have also continued to work closely with the UL's European, English and electronic collections managers in order to ensure that books and resources the Whipple is unable to afford are acquired by the UL.

Whipple Rare Books

2011 was a busy and productive year with regard to our important rare book collections. The first of two Library exhibitions featured hand-painted illustrations of insect larvae, microorganisms and microscopes in a display entitled ‘Early 19th-century natural history and the diamond lens microscope: the microscope books of Dr C.R. Goring and Andrew Pritchard’. The second exhibition, curated by Part II students (Anne Carter, Natalie Christie, Alastair Cliff, Nick Goodwin and assisted by Simon Schaffer and Jenny Rampling), was entitled ‘Isaac Newton (1643–1727) and Newtonianism: Popularisation and canonisation via the medium of print’. Following seminar sessions with Professor Simon Schaffer, our student curators (led by Jenny Rampling) used Whipple Library rare books to show the diverse modes through which the idea of Newton and Newtonianism permeated 18th-century thinking, via books and publishing. Within the confines of our Library display cases four significant themes were

identified in children's literature, popular science, fashion and academia. Online versions of both exhibitions can be accessed via the Whipple Library rare book web pages.

New Whipple Library Book Blog

As a further means of promoting interest in, and use of, Whipple Library rare book collections we set up a blog earlier in the year to showcase particular Whipple books and explore issues relating to them. Posts so far include a piece on Erasmus Darwin's *Botanic Garden* by Dawn, an item by Caitlin Wylie on William Plane Pycraft and Janet Kelman's *Nature Teaching on the Blackboard* and a post by Katie Taylor on Thomas Digges' *Pantometria*. Further contributions by students and staff are warmly invited!

The blog can be accessed via the Library webpages and from this URL: <<http://whipplelib.wordpress.com/>>

Whipple Library Rare Book Workshops

As part of the Department's graduate training programme Roger Gaskell (assisted by the Librarian) conducted a series of workshops demonstrating how physical evidence in printed books, and an understanding of their production history, can be deployed for an historically informed reading of texts, using Whipple rare books as examples. These sessions were well received by the postgraduate students who attended, and offered a good example of how Whipple rare books can play a part in the Department's teaching. The librarian also delivered two sessions for librarians entitled '*Book History for Librarians. Making the most of your rare book collections course*' as part of the University's 'Librarians in Training' programme.

New Whipple e-directory to Cambridge's HPS-related Manuscripts and Rare Books

It is well known that one of the benefits of studying/researching HPS at Cambridge is the vast, world-class range of rare book and manuscript collections that exist in Cambridge as a whole. Unfortunately, these sources are scattered across many libraries and catalogued in all sorts of different ways or not at all, making it difficult to discover what there is and where it is. Assisted by an HPS researchers' focus group, and librarians/academics from across Cambridge, the Whipple Library has now created a new online directory to Cambridge's HPS-related manuscripts and rare books. This acts as a useful starting point for prospective and existing staff and students seeking to navigate the wealth of material that exists in Cambridge, by subject, name and institution.

The directory can be accessed via the Library webpages and from this URL:
<http://www.hps.cam.ac.uk/library/directory/>

Special Projects

Gallery Development

Major Refurbishment of the Main Gallery

January 2011 saw the re-opening of the Main Gallery, following a major refurbishment, financed by a generous (£60,000) grant from the DCMS/Wolfson Fund, with additional support from the School of Humanities and Social Sciences. Amongst other improvements, the refurbishment enabled the replacement of the old, outdated display cases with new cases that comply with modern museum standards. Furthermore, the new cases have greater display capacity, allowing us to showcase more of the collection.



The installation of the new cases gave a special opportunity to re-design the displays. While some old favourites are still there, a number of entirely new ‘case studies’ have been installed, including one devoted to Dillon Weston’s glass fungi models, conceived and installed by Ruth Horry, a current PhD student. Boris Jardine, also a PhD student in the Department, contributed greatly to the overall shape and content of the new display. Striking new introductory panels have been designed and produced by PandIS.

In addition, several cases have been specially designated for exhibits linked to current major research projects in the Department of History and Philosophy of Science: the Wellcome Trust-supported *Generation to Reproduction* Project and the AHRC-supported *Board of Longitude Project*.

The installation of the new cases required the relocation of the Herschel telescope, which is now displayed on the main floor of the gallery, allowing visitors to have a closer look.

The Main Gallery is in a room that is nearly 400 years old, featuring a distinctive Grade II-listed hammer-beam roof. The new cases harmonise well with the character of the Perse Hall, and the 'new' Main Gallery has won many compliments from visitors, as well as from museum specialists.

The Upper Gallery

Special 'black out' blinds were installed in June 2011 in the Upper Gallery, following a conservation review and advice from Deborah Walton, Renaissance Regional Conservation Officer for Cambridgeshire and Peterborough. The new blinds will protect the globe display from natural daylight and harmful UV rays.

The Reserve Gallery

The Reserve Gallery has been re-opened as a visitor-accessible space, having been used for much-needed storage over the last couple of years. New cases dedicated to 'visible storage' have been purchased, allowing objects to be stored in an efficient, secure manner while enabling visitors to see them. The installation of cases and objects was completed five months ahead of schedule and the space can now also be booked for teaching and for research visits.

The Science of Musical Sound Project

Two specially-designed interactives, relating to Helmholtz resonators and Lissajous curves, have been installed on the Explore website (<http://www.hps.cam.ac.uk/whipple/explore/interactives/>); these were accomplished with funding from the Newton Trust for our Science of Musical Sound Project, and additional support from MLA (Museums, Libraries, Archives) for audience development.

The Science of Musical Sound Project was completed at the end of 2010. The Whipple Museum is grateful to Torben Rees and Derek Scurll for their work as project researchers. Both of them contributed to a special exhibition linked to the project, described below.

Exhibitions

The Acoustical Experiments of Lord Rayleigh

To help mark the 350th anniversary of the Royal Society, the Whipple Museum chose Lord Rayleigh as our 'Local Hero'. Rayleigh's extensive involvement in the University of Cambridge (as student and Fellow of Trinity College and as Chancellor of the University), together with his work in the science of acoustics (the focus of our Science of Musical Sound project), made him an ideal choice.

The exhibition, which received generous support from the Royal Society, featured some homemade apparatus from Rayleigh's workshop at Terling Place, Essex. These objects, used in many of Rayleigh's experiments, have not previously been on display. Indeed those objects that had remained at Terling have barely been handled since Rayleigh's death in 1919.

This exhibition presents a brief summary of Rayleigh's life and achievements, with particular focus on his acoustical experiments, which formed the backbone of his work on the subject, much of which remains relevant in the field of acoustics today.

The Whipple is very grateful to the Rayleigh family, the Science Museum and the Cavendish Laboratory for allowing us to have material on loan for this special exhibition. Science Museum staff, especially Jane Wess and Adrian Whicher, were very helpful in facilitating the loan and necessary conservation. This was one of the few occasions on which the Whipple has displayed material not in its own collection.

An illustrated guide, *The Acoustical Experiments of Lord Rayleigh*, with a biographical sketch by Professor Edward A Davis, was published to accompany the exhibition. Professor Davis, Vashka dos Remedios, Nick Whitfield and Neville Taylor each made valuable contributions to the production of the exhibition and guide.

Globes

The temporary Globes exhibition in the Upper Gallery has proved extremely popular with visitors. We are now planning to develop a more permanent display of the Whipple's diverse collection of globes, which includes many kinds of representations of Earth, as well as a variety of astronomical globes. We have begun fund-raising for new cases to display our fine collection of globes and related objects, and are investigating options to display them most effectively.

Outreach Events

Once again, the Community Learning and Outreach fund contributed support to special events at the Whipple; this support was made possible by a grant from MLA Renaissance East of England (<http://www.renaissance-east.org.uk/>).

Festival of Ideas

The Whipple took part in the University-wide Festival of Ideas, in spite of the closure for refurbishment. A Fantastic Fungus day was held on 23rd October 2010, with Kelley Swain, the Whipple's poet-in-residence, offering a 'mushroom' creative writing workshop which was preceded by talks related to mushrooms. PhD student Ruth Horry spoke about the Dillon Weston glass fungi models and Dr. Richard Barnett told the audience about the use of mushrooms in medicine. Real mushrooms were available as writing prompts and many members of the group were inspired to write their own poetry.

Twilight at the Museum

At 4.30pm on 23rd February 2011 the lights were dimmed for Twilight at the Museum. Armed with torches, visitors (especially the very young) enjoyed an unusual and atmospheric experience. A space-themed trail led visitors around the galleries towards a secret codeword written in UV ink hidden with a special display of 'space toys' within the newly refurbished Main Gallery. If successful in finding the codeword, they could claim a prize from one of the Whipple staff members. This was an extremely popular event with over 780 people attending over the course of the evening.

Cambridge Science Festival

In March, the Whipple held two events as part of the Cambridge Science Festival.

On the 16th, The British Society for the History of Science Strolling Players performed 'The Tables Turned'. This short role play focused on the topic of 'supposed supernatural activities to consider the scientific method, and the province of the sciences.'

The Whipple Museum was also open on Saturday March 19th, maintaining its tradition of opening for one Saturday during the Festival. Visitors who cannot ordinarily get to the Whipple during the week had an opportunity to view the collection, and the opening, as ever, was particularly popular with families. Younger visitors ensured that the handling collection was well used and there were queues in *discover* for the interactives.

Claire Wallace, Steve Kruse, Alison Smith, Vashka dos Remedios, Katy Barrett, Derek Scurl and Ruth Horry all volunteered their services. 440 people visited the museum during the day.

Summer at the Museums

On 26th July, Kelley Swain, the Whipple's poet in residence and Lesley Saunders held a poetry discussion in the Museum. They both read recent work inspired by objects from the Whipple.

On 1st and 8th August the Whipple Museum joined forces with the Museum of Archaeology and Anthropology (MAA) for two ‘Summer at the Museums’ events. Heather Donoghue set up MAA’s Cabinet of Curiosity in the New Gallery which children were encouraged to examine and draw their favourite objects. There were also Chinese fans and paper plate Maori masks for children to make and colour.

These events also tied in with the ‘Draw What You Saw’ competition which was rolled out across 11 Cambridge museums. Children could pick up a postcard on which they were able to draw their favourite object at the museum they visited, post it in the box provided, and a winner was picked every week. The best drawings were all posted on the Cambridge University Museum’s Flickr account.

Open Cambridge

The Whipple Museum took part in two events as part of the University’s Open Cambridge festival which promotes local attractions (in particular those belonging to the University) to local people. On Friday 9th September, the Whipple’s Main Gallery was filled with the sound of a Bassoon quartet, ‘Harmonious Bassoons’, who played an ‘eclectic mix of music from pop to classical, TV themes to jazz’.

The Museum was also open on Saturday 10th September allowing visitors to explore the Whipple’s collections and investigate how some of our objects work using the handling trolleys.

Alumni Weekend

The Whipple Museum took part in the University’s Alumni Weekend alongside other members of the Department of History and Philosophy of Science. In ‘The Tools of Science’, Simon Schaffer gave a talk on Herschel’s telescope, Jim Secord gave a talk on Charles Lyell’s Geological Hammer and then Liba Taub lead a tour of the Whipple Museum. The Museum was also open throughout the afternoon for visitors to browse at their leisure.

Other Events

Arts Council England

On the 13th September 2011 Arts Council England held their Museums and Renaissance briefing at the Whipple Museum. This was the launch of the future policy and funding opportunities for museums and Renaissance 2012-2015. The briefing was attended by representatives from museums and county bodies from across the East of England region. Katy Barrett and Vashka dos Remedios very kindly provided help with this event.

SHARE course

On the 28th January, one session of the six week ‘Understanding Museums’ course organized by SHARE (as part of Renaissance in the Regions) was held in the New Gallery.

Book Launch at the Whipple

On the 14th March, the publication of Dr Vanessa Heggie’s book ‘A history of British sports medicine’ was celebrated in the Main Gallery with an evening launch.

Special Visits

The new Vice-Chancellor, Professor Sir Leszek Borysiewicz, paid a special visit to the Museum on 14th October shortly after taking up his new post.

Michael Perry and Alicia Guirao (on behalf of George Loudon and Adam Lowe) photographed Henslow diagrams in April. This project was the first step towards the possible production of high-quality, limited edition prints.

On 14th June Simon Fourney (Head of Arts Programme Grants, Wolfson Foundation) and Deborah Easlick (CUDO) visited the Museum to see the new cases bought by money part-funded by DCMS/Wolfson. Claire Wallace took them on a tour around the Whipple with Jim Secord.

We had four work experience pupils this year. They were Fiona Case from Sawston Village College (28/03/11-08/04/11), James Galvin from Linton Village College (06/06/11-17/06/11), Natasha Cross from Torquay Girls Grammar School (04-08/07/11) and Theo French from Bottisham Village College (04-15/07/11). They created new displays in the *discover* gallery which included globes, ivory sundials and cartographic material. James also helped us with new material for the poster boards at the front of the building and created some new trails.

In July Ruth Horry hosted a tour for International delegates from Royal Society of Chemistry and in September Claire Wallace welcomed a group from the Museum of Technology.

Television Appearances

On 15th March the BBC were filming for 'The Story of Electricity' in the Maxwell Lecture theatre. Some objects from the Whipple were included in the programme, alongside working replicas.

William Twycross visited the Museum on 10th May to film the model of the motion of a particle during an earthquake, made circa 1887 (Wh. 3461). He was particularly interested in this object as he was making a documentary about a relative of his, Professor John Milne, a geologist with a particular interest in seismology, who worked in Japan and was a colleague of Professor Seikei Sekiya in the 1870s and 1880s.

On 13th June Dr Patricia Fara was filmed by Renegade films talking about the Grand Orrery in the Main Gallery.

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, whilst the Director and others, including Dr Catherine Eagleton, offer lecture-demonstration classes on instruments, models and collections for Paper 1 and Paper 2 in particular, amongst others. A consideration of the place of instruments in museums was the focus of the MPhil seminar led by the Director. 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. This year, a special tour of the Museum was offered to IB students in HPS.

Visits from other HE Institutions:

ARU visit

On the 22nd October 2010, Paul Jackson (Head of the Music Department, Anglia Ruskin University) brought a group of students to the HPS department for a seminar led by Derek Scurll, as part of the SMS project. The students were a mix of third-years studying for a BA in music and a BA in creative music technology. Using objects from our main collection—including Lissajous tuning forks (Wh.6229) and a glass Helmholtz resonator (Wh.6268)—and objects from our handling collection, Derek illustrated some basic acoustical principles.

Student and Staff Research

On Friday 12th November, the Whipple Museum was host to an Interdisciplinary Workshop on Reproduction, organized by Salim Al-Gailani, in the New Gallery.

As part of the refurbishment of the Main Gallery, the *Board of Longitude* and *Generation to Reproduction* were each offered two display cases to curate. These should be completed by the end of 2011.

MPhil Essays and Theses

Josefine Baark 'The Art in Science and the Science in Art': Glass Models of Flowers and Fungi (Wh. 5826)
(Josefine Baark is an MPhil student in the History of Art Department, University of Cambridge)

Publications

Whipple Museum *The Acoustical Experiments of Lord Rayleigh: Exhibition Guide*, with a biographical sketch by Professor Edward A Davis. Cambridge: Whipple Museum of the History of Science, 2011.

Grants and Donations

Donations

We are very grateful to Anita McConnell and the Ann D Foundation for their continuing contributions, which support the work of the Whipple in various ways, particularly in helping to fund student internships.

Staff News

Vashka dos Remedios (MPhil) and Nick Whitfield (PhD) both helped with the Rayleigh exhibition guide over the summer vacation. Doctoral students Ruth Horry, Katy Barrett, Josh Nall, and Boris Jardine continued to help in the Museum on a part-time basis. Boris Jardine has since taken up the post of Curator of History of Science at the Science Museum, London.

Training

11th January 2011

The Equality Act: The Implications. This session was held at the Fitzwilliam Museum and was attended by Claire Wallace. This course helped to improve awareness of the Equality Act and how it affects museums.

22nd February 2011

The Dispensation Process: all you need to know. Claire Wallace attended this course, held by the University's Finance Department. She gained knowledge about the situations in which the Dispensation Process should be applied, particularly when making acquisitions to the collection. She also learned that this process is likely to become irrelevant for Museums and Libraries within the University.

7th April 2011

University Museums Emergency Support Network. Claire Wallace visited the Fitzwilliam Museum to go 'behind the scenes' and see where emergency materials are kept and to learn about evacuation routes for objects.

18th July 2011

Providing a Service for visitors who are blind or partially sighted. Alison Smith attended this course which gave a background into common eye conditions, meeting, greeting and guiding blind visitors and museum and gallery access.

Ongoing throughout 2010-11:

The *MAGIC3 (Museums and Galleries in Cambridge)* project was attended by Steven Kruse. This project aims to improve relationships between schools and museums in Cambridge, and to increase staff skills in outreach and education.

Loans

The Whipple Museum continues to receive requests from other museums for the loan of objects from its collection. This is 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 as well as 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

Kettle's Yard Museum, Cambridge

Optics and light tricks workshop, March 2011
HC 69 & 70 'Optics' handling trolley box

Maths Faculty, University of Cambridge

Maths Faculty Open Days, May 2011
HC 48 Replica Sextant

Loans in

Normally, the Whipple does not have objects on loan from other institutions, having its own rich and varied collection. However, for the special exhibition relating to the 350th anniversary of the Royal Society, with its focus on the 'Local Hero' Lord Rayleigh, it seemed appropriate to break this unwritten 'rule'. The Whipple is very grateful to the Rayleigh family, and to the Science Museum and the Cavendish Laboratory for making this exhibition possible.

Science Museum

The Acoustical Experiments of Lord Rayleigh, 20th May 2010 – 2nd June 2011

1930-407	Instrument for measuring the intensity of vibration in the air
1930-418	Zinc Bell
1930-452	Apparatus for the investigation of the perception of sound direction
1930-445	Apparatus for demonstrating the interference of sound waves
1930-443	Horn with elliptical section
1930-444	Horn with elliptical section

Terling Place

The Acoustical Experiments of Lord Rayleigh, January 2010 – June 2011

- Phonic wheel apparatus
- Glass bottle with dried peas
- Electrically maintained tuning fork
- Singing flame apparatus
- Wooden box of bird calls
- Acoustic interference/iridescence analogue equipment
- Self-portrait (glass slide)
- Timpani and iron stand
- Metronome
- Helmholtz resonator and sounder
- Siren
- Stroboscopic cylinder
- Boys apparatus

Cavendish Laboratory

The Acoustical Experiments of Lord Rayleigh May 2010 – November 2010
Portrait of Lord Rayleigh for Rayleigh Exhibition

New acquisitions

- 6388- Wax models of *Asterina gibbosa* Forbes by Adolf Ziegler; c. 1882
6398
- 6399- Wax model of the primordial skull by Adolf Ziegler; c. 1881
6403
- 6404- Wax model of *Rana temporaria* development by Adolf Ziegler; c. 1851
6428
- 6429- Wax model of *Gallus* (chick) development by Adolf Ziegler; c. 1868
6451
- 6452- Wax model of *Gallus* (chick) development by Adolf Ziegler; c. 1868
6474
- 6475- Wax model of *Torpedo ocellata* (electric ray) development by Adolf Ziegler; c. 1892
6479
- 6480 Brass sector by John Mark(e); late 17th century
- 6481 Boxwood slide rule by Isaac Carver; c.1697
- 6482 Brass gunner's calipers by George Adams; late 18th century
- 6483 A Watt-type steam engine indicator; early 19th century
- 6484 A museum microscope by W. Watson; early 20th century
- 6485 Elton's astronomical screen or "Transparent Astrarium"; English; c. 1819
- 6486 Bett's patent portable globe; English; c. 1860
- 6487 "Lord's calculator" by Elliott brothers; English; c. 1880
- 6488 Nickel plated surveying level by A. Berthelemieu
- 6489 "Klima-Globus" by Georg Jeusch; c. 1970
- 6490 Wave machine after E. Mach; Vienna; c. 1890
- 6491 4 printing blocks for Clay & Court's 'History of the microscope'
- 6492 Box camera obscura; 19th century
- 6493 Fresnel's mirror for interference demonstration by V. Fric; 19th century
- 6494 Catalogue of the Mensing collection; R. S. Whipple's copy; c. 1924
- 6495 2 magic lantern slides of Mars
- 6496 Slate globe by Philips; 20th century
- 6497 3 metronomes
- 6498 A resistance box
- 6499 Galvanometer; Atelier Ruhmkorff; by J. Carpentier; Paris; c. 1880

Individuals

Annual Reports of Members of the Department

Salim Al-Gailani

Lectures, seminars and conferences

April 2011

'Antenatal health and the politics of biomedical research on pregnancy in interwar Britain', American Association for the History of Medicine Annual Meeting, Philadelphia

May 2011

The 'Great Ice Age' of anatomy: learning from frozen sections c. 1900, Department of History and Philosophy of Science, University of Cambridge

Dr Jon Agar

I have continued to be a friend of the Department. This year, aside from teaching at the Department of Science and Technology Studies (STS) at UCL, I have been finishing my book on the history of 20th century science. I am also editor of the *British Journal for the History of Science*.

Publications

Jon Agar, 'Thatcher, scientist', Notes and Records of the Royal Society of London, published online May 2011

Jon Agar, 'Plant films', for Secrets of Nature DVD, British Film Institute, 2010

Jon Agar, 'Peas and Cues', British Film Institute Screen online analysis and synopsis, 2010

Lectures, seminars and conferences

'What happened in the sixties?' 11 May 2010. Centre Koyré. Le tournant des années 1960 et 1970: Une histoire globale des transformations contemporaines?

'Sacrificial Experts?' the Volunteers for Ionising Radiation in historical context', British Nuclear Culture, Liverpool

17-18 June 2010

'Dad's Radioactive Army: Scientists, Engineers (and Philosophers) as Volunteers Post-Chernobyl', STS Research Day

16 June 2010

'Dad's Radioactive Army: Scientists, Engineers (and Philosophers) as Volunteers Post-Chernobyl', BSHS Annual Conference Aberdeen, July 2010

Alexi Baker

Alexi Baker is a post-doctoral Research Associate on the project 'The Board of Longitude 1714–1828: Science, Innovation and Empire in the Georgian World'. She is also rewriting her doctoral thesis, "'This Ingenious Business": the socio-economics of the scientific instrument trade in London, 1700–1750', for publication as a book and is in the process of contributing to a book about the academic uses of historical GIS mapping.

Publications

Online

Posts for the blog of the project *The Board of Longitude 1714-1828: Science, innovation and empire in the Georgian world*, <http://www.nmm.ac.uk/blogs/longitude/blog.html> (2010-2011).

Lectures, seminars and conferences

July 2011

'Redefining the early nature and nomenclature of the "Board of Longitude"', *BSHS Annual Conference*, University of Exeter.

September 2011

'Basic tools, brilliant curiosities and black boxes: technology and the search for the longitude at sea', *XXX Scientific Instrument Symposium*, Kassel, Germany.

Presentation on the nature and history of the Board of Longitude, *All a-Board: The Processes of Governmental Administration 1730-1830*, HPS, Cambridge.

Debby Banham

It's been an exciting year for Anglo-Saxon medicine, with my student Conan Doyle finishing his PhD in the Anglo-Saxon, Norse and Celtic Department, and a new PhD student starting, as well as two MPhils in the same Department, so I had plenty of help making Anglo-Saxon herbal remedies with schoolchildren for the Festival of Ideas in October. Since Christmas, Peter Jones and I have been doing our best to keep the Medieval Medicine Discussion Group going while Hilary Powell's been on maternity leave, with excellent presentations from Professors Martha Bayless and Lea Olsan (plus a paper from me). Meanwhile, I've been working hard on my Anglo-Saxon farming book (final – I hope – revisions taking place summer 2011), and of course Latin Therapy continues to be one of the most lively and stimulating parts of my life, and we finally published our fourth booklet in time for Christmas (see below).

Publications

Edited books

with Jennifer Rampling and Nick Jardine, *Recipes for Disaster* (Whipple Museum, Cambridge, 2010)

Articles in books

'The staff of life: cross and blessings in Anglo-Saxon cereal production', in Sarah Larratt Keefer, Karen Louise Jolly and Catherine E. Karkov, eds, *Cross and Cruciform in the Anglo-Saxon World: Studies to honor the Memory of Timothy Reuter*, *Medieval European Studies XI* (West Virginia University Press, 2010), 279–318
with Conan T. Doyle, 'An instrument of confusion: The mystery of the Anglo-Saxon syringe', in Jennifer Rampling et al., eds, *Recipes for Disaster* (Whipple Museum, Cambridge, 2010), 27–38

'England joins the medical mainstream: new texts in eleventh-century manuscripts', in Hans Sauer and Joanna Storey, eds, *Anglo-Saxon England and the Continent* (Arizona Center for Medieval and Renaissance Studies, 2011), 341–52

Articles in journals

with Clare Pilsworth, 'Introduction: medieval medicine, theory and practice', *Social History of Medicine* 24.1 (2011), 2–4

'Dun, Oxa, and Pliny the great physician: attribution and authority in Old English medical texts', *Social History of Medicine* 24.1 (2011), 57–73

Lectures, seminars and conferences

February 2010

'BL Sloane 1621: an eleventh-century medical manuscript at least partly from Bury St Edmunds', Medieval Manuscript Seminar, Institute of English Studies, University of London

March 2010

'Medicine at eleventh-century Bury St Edmunds', Medieval Medicine Discussion Group, HPS

May 2010

'Monastic sign-language: saying "Yes, please" and "No, thank you"', *Acceptance and Rejection of Food*, Medieval Diet Group, Somerville College, Oxford

June 2010

'English vernacular palaeography', London Palaeography Summer School, Institute of English Studies, University of London

July 2010

'Eating like a king, a saint, or a horse: food and status in Anglo-Saxon England', *You are what you eat*, International Medieval Congress, University of Leeds

August 2010

'Anglo-Saxon Cambridge', Sutton Trust Summer School, Dept of Anglo-Saxon, Norse and Celtic, University of Cambridge

Andrew Barry

Andrew Barry is Reader in Geography at Oxford University and Academic Director of the MSc programme in Nature, Society and Environmental Policy.

Publications

Articles in books

'Interaktivität. Konsumentinnen, Bürgerinnen und Kultur' in D Harrasser et al (eds) *Wissen Spielen: Untersuchungen zur Wissensaneignung von Kindern im Museum*, (Transcript, 2011), 43-68

'Technological Zones' in D. Oswell (ed) *Cultural Theory vol 1: Legacies and Innovations*, (Sage, 2010), 123-140

'Transparency as a Political Device', in M Akrich et al (eds) *Débordements: Mélanges Offert à Michel Callon*, (Presses des Mines, 2010), 21-40

'Materialist Politics: Metallurgy' in B Braun and S Whatmore (eds) *Political Matter: technoscience, democracy and public life*, (Minnesota University Press, 2010), 89-118

'Tarde's Method: between statistics and experimentation' in M Candea (ed) *The Social after Tarde: Debates and Assessments*, (Routledge, 2010), 177-190

Articles in journals

'Networks', *Radical Philosophy*, 165, 35-41 (with G Born) 'Art-science: from public understanding to public experiment', *Journal of Cultural Economy*, 3, 1, 103-119

Lectures, seminars and conferences

January 2010

'Interdisciplinarity and Disciplinarity', *Interdisciplinary Research*, Department of Politics and International Relations, Oxford Brookes University

March 2010

'Research Policy in a Technological Society', *A New Mandate? Research Policy in the 21st Century*, Royal Geographical Society, London

'A more than social science', *Challenges of Interdisciplinarity*, INNOGEN, University of Edinburgh

'Forms of Interdisciplinarity', *Challenges in Interdisciplinary Science*, Royal Society, London

April 2010

'Situation and Crisis', *Rethinking Capitalism*, Bruce Center, University of California Santa Cruz

May 2010

Innovation in Governance and Knowledge Controversies', *Second Berlin Forum on Innovation in Governance*, Berlin-Brandenburg Academy of Sciences and Humanities, Berlin

'Situations and actor-networks', *Actor-Network Theory*, School of Law, Birkbeck College, London

Peter J. Bowler

Peter Bowler has at last submitted the manuscript of his book about what might have happened if Darwin drowned on the voyage of the *Beagle* to the publisher (University of Chicago Press). As chair of the programme committee for the forthcoming International Congress of the History of Science (Manchester 2013) he is working with Frank James (chair of the national organizing committee) to assemble an international body of scholars to serve on the programme committee.

Publications

Articles in books

'Rethinking Darwin's Position in the History of Science,' in M. A. Bell et al. (eds.) *Evolution Since Darwin: The First 150 Years* (Sinauer, 2010), 31-48

Reviews

Essay review of T. Dixon, G. Cantor and S. Pumphrey (eds.) *Science and Religion: New Historical Perspectives* and P. Harrison (ed.) *The Cambridge Companion to Science and Religion*, in *British Journal for the History of Science* 44 (2011), 275-280.

Review of P. M. Harman, *The Culture of Nature in Britain, 1680-1890* (2009), in *Annals of Science* 68 (July 2011).

Lectures, seminars and conferences

May 2011

'From Naturalism to Rationalism: E. Ray Lankester, the Rationalist Press Association, and Early Twentieth-Century Scientific Naturalism', *Revisiting Evolutionary Naturalism: New Perspectives on Victorian Science and Culture*, York University, Toronto.

September 2011

'Galton's Saltationism in its Historical Context,' *Francis Galton Centenary Conference*, Royal Statistical Society, London

Elma Brenner

In 2010–11 Elma Brenner lectured for and supervised Part II Paper 7, and supervised a Part II dissertation. She became an Associate Member of the Centre de recherches archéologiques et historiques anciennes et médiévales (CRAHAM) at the Université de Caen Basse-Normandie, France, and was awarded a Mellon Fellowship of \$6000 CAD to study for the Diploma Programme in Manuscript Studies of the Pontifical Institute of Mediaeval Studies, University of Toronto, in Rome in June–July 2011. She acted as a reviewer for *Medieval Archaeology*, and continued work on her monograph, *Leprosy and Charity in Rouen, c.1100–c.1400* (provisionally accepted for publication in the Royal Historical Society's series *Studies in History*). She is also co-editor of two books, *Memory, Commemoration and Medieval Europe* (Ashgate, manuscript currently under external review) and *Society and Culture in Medieval Rouen, 911–1300* (Brepols, manuscript in preparation).

Publications

Reviews

Report on the workshop 'Charity and the city: medieval to early modern', *Wellcome History* 46 (Spring 2011), 18–19

Lectures, seminars and conferences

November 2010

'Leprosy, gender and status in medieval Rouen', Centre for Medieval and Early Modern Research, University of Swansea

December 2010

'Leprosy and the city: civic responses to leprosy in medieval London and Rouen', Shoe Lane Library, London

March 2011

'Leprosy and identity in medieval Rouen', Departmental Seminar, Department of History and Philosophy of Science, University of Cambridge

April 2011

Leprosy, Language and Identity in the Medieval World, International Workshop, King's College, Cambridge, funded by the Wellcome Trust and King's College, Cambridge (co-organizer)

April 2011

'Les léproseries féminines dans l'Angleterre et la Normandie au Moyen Âge: influences et contrastes', Séminaire de recherche, CRAHAM, Université de Caen Basse-Normandie

September 2011

'A perceived threat or a disease in decline? Leprosy and public health in late fourteenth- and fifteenth-century Rouen', *Society in an Age of Plague*, Fifteenth Century Conference, University of East Anglia

September 2011

'Looking beyond leprosy: attitudes towards the leprous in medieval Rouen, France', European Association for the History of Medicine and Health Conference, Universiteit Utrecht

September 2011

Archives of the Body: Medieval to Early Modern, International Workshop, Hughes Hall, Cambridge (co-organizer)

Mirjam Brusius

Publications

Articles in journals

'Impreciseness in Julia Margaret Cameron's portrait photography', *History of Photography* 34 (2010), 342-355

'Experimente ohne Ausgang. Talbot, Fenton und die Fotografie am British Museum um 1850', in *Fotogeschichte* 30 (2011)

'From photographic science to scientific photography. Photographic experiments at the British Museum around 1850', *Preprint* 413 (2011), Max Planck Institute for the History of Science

Lectures, seminars and conferences

March 2011

'"Map of Turkey, a flexible hat, pencils, and the Talbotype": Travelling artists in mid-19th century archaeological expeditions to the Middle East', *Cabinet of Natural History*, University of Cambridge

May 2011

Images of Middle Eastern archaeological expeditions in 19th century Europe', *6th European Spring School in History of Science and Popularization*, Maó (Menorca)

July 2011

'Objects without status – pictures without purpose. The organisation and visualisation of Middle Eastern archaeological findings in 19th century Europe', *British Society for the History of Science Annual Conference*, University of Exeter

August 2011

'Image problems: Photographic (self-) representations of Persia by Nasser Al-Din Shah and European travelling artists in the mid 19th century', *Photography and Cinematography in Qajar Era Iran*, University of St Andrews

Robert Bud

Robert Bud is Principal Curator of Medicine at the Science Museum. He has been awarded an AHRC research fellowship for the period October 2011-June 2012, to study Narratives of science and practice in mid-nineteenth century Britain: applied science, stories and story-telling. The grant is in formal association with the Department of History and Philosophy of Science.

Publications

Articles in journals

'Innovators, deep fermentation and antibiotics: promoting applied science before and after the Second World War', *Dynamis* 11 pt 2 (2011): 47-66

From Applied Microbiology to Biotechnology: Science, Medicine and Industrial Renewal', *Notes and Records of the Royal Society*, 64 (2010), S17-S29

Article in magazines

'Freudian slip Should a science museum hold an exhibition on psychoanalysis? Yes' *New Scientist* 2 October 2010

Lectures, seminars and conferences

February 2011

'How could a bad man be a good king? Konrad Bernhauer – an intentionally forgotten founder of biotechnology?' 3 February 2011. The Royal Society

May 2011

'The challenge of European collaboration', 'Collecting the Genome' HPS, Cambridge
'Antibiotics, animals and talk of resistance', Medical Sciences Historical Society

June 2011

'The strange and philosophic origins of applied science and of science applied to the arts' Department of Science, Technology and Society, UCL
'Stories about chemistry: illuminating folklore' *Renewing the heritage of chemistry in the 21st century*, Paris

July 2011

Stories about science as folklore: Giving meaning to applied science in the 19th century, British Society for the History of Science annual meeting

September 2011

'Constructing the public history of science', *Public History of Science and Technology*, Columbia South Carolina, Plenary lecture
Stories about chemistry in the Industrial Revolution: pathways towards what kind of knowledge? Commission for the History of Modern Chemistry, Rostock

Tatjana Buklijas

Tatjana Buklijas is a research fellow at Liggins Institute, University of Auckland, New Zealand. Since returning from maternity leave at the end of 2010, she has also lectured in medical humanities at the Faculty of Medical and Health Sciences, University of Auckland as well as supervised several medical dissertations at the Medical University of Vienna and two PhD dissertations at the University of Dubrovnik, Croatia.

Publications

Articles in books

(with PD Gluckman and MA Hanson) 'Maternal and transgenerational influences on human health' in E Jablonka and S Gissis (eds) *Transformations of Lamarckism: from subtle fluids to molecular biology* (The MIT Press, 2011), 237–249.

(with PD Gluckman, MA Hanson, AS Beedle and FM Low) 'Epigenetics of human disease' in B Halgrímsson and BK Hall, *Epigenetics: linking genotype and phenotype in development and evolution* (University of California Press, 2011), 398–423.

Lectures, seminars and conferences

October 2010

'A history of embryo images', Founder's Lecture, Auckland Medical History Society

Soraya de Chadarevian

Soraya de Chadarevian is Professor in the Department of History and Center for Society and Genetics at the University of California Los Angeles. During the spring term of 2011 she was on leave in Paris on a Senior Research Fellowship from the Ville de Paris, hosted by the École des hautes études en sciences sociales.

Publications

Books

de Chadarevian, S. *Designs for Life: Molecular Biology after World War II*, Cambridge: Cambridge University Press. Paperback edition.

Articles in journals

de Chadarevian, S. 'The comparative and the exemplary: revisiting the early history of molecular biology', (with B. Strasser), *History of Science* 49 (2011), 317-336.

In press

Articles in journals

de Chadarevian, S. 'The making of an entrepreneurial science: biotechnology in Britain, 1975–1995, *Isis* (December 2011).

de Chadarevian, S. 'Scientists' lives and the history of science' (essay review), *NTM*

Articles in books

de Chadarevian, S. 'Molecular biology', *The Oxford Encyclopedia of American Scientific, Medical, and Technological History*, New York: Oxford University Press.

Lectures, seminars and conferences

Conference organized

Human heredity: biology, anthropology and public health, 1940s-1970s. June 20-21, Maison Suger, Paris

Lectures

October 2010

de Chadarevian, S. 'The making of an entrepreneurial science: Biotechnology in Britain, 1975-1995', History of Science Seminar, Department of History, UCLA

de Chadarevian, S. 'Monod as founder of a new discipline: local and international contexts', colloquium Jacques Monod: a theorist in the era of molecular biology, IHPST, Paris

November 2010

de Chadarevian, S. Session chair, Objects of science, objects of culture: models of specimens in 19th-century natural history, HSS Annual Meeting, Montreal

December 2010

de Chadarevian, S. 'The world as a laboratory: biologists and the bomb', Committee on Conceptual and Historical Studies of Science, University of Chicago

January 2011

de Chadarevian, S. 'Ribosomes', Festkolloquium fuer Hans Joerg Rheinberger, Max Planck Institut for History of Science, Berlin

March 2011

de Chadarevian, S. 'Epistemology and History', Historical and Biological Times: A Festschrift for Hans-Joerg Rheinberger, Residencia de Estudiantes, Madrid

March 2011

de Chadarevian, S. 'LA experimental', at workshop, Designing the Technological Future: The Landscape of Science in Postwar Southern California, Huntington Library

May 2011

de Chadarevian, S. 'Biologie et société: perspectives historiques et philosophiques', at Séminaire Biologie et Société convened by Henri Atlan and Claudine Cohen, École des hautes études en sciences sociales, Paris

de Chadarevian, S. 'A historian's perspective: doing and using interviews', at conference Science Voices: scientists speak about science and themselves, Royal Society London

de Chadarevian, S. 'Biologists and the bomb', conférence doctorale at Institut d'histoire et de philosophie des sciences et techniques, Paris

June 2011

de Chadarevian, S. 'Visualizing mutations: genetics in the atomic age', conférence doctorale at Ecole pratique des hautes études, Paris

de Chadarevian, S. 'The world as a laboratory: radioactive fallout and "unplanned" experiments', conférence doctorale at Conservatoire national des arts et métiers, Paris

de Chadarevian, S. 'Studying human populations post World War II', at workshop Human Heredity: biology, anthropology and human health, 1940s-1970s, Maison Suger, Paris

September 2011

de Chadarevian, S. 'Putting human genetics on a solid basis: human chromosome research, 1950s-1970s', First Fred Sanger Lecture, Wellcome Library, London

Hasok Chang

I started my appointment in HPS on 1 September 2010, so this is my first input to the annual report.

In August 2011 I have made a collaborative agreement with the Cambridge Department of Chemistry, with the sponsorship of Dr Peter Wothers there, to be allowed access to laboratory facilities for the replication of historical experiments. This agreement will last for 5 years.

I have the following work involving the mass media: series Consultant for *The Story of Electricity* (3 episodes), BBC4, 2011; appearance on BBC television, *Horizon: What Is One Degree?* 10 January 2011.

In HPS I have started three new reading groups: Philosophy of Science Reading Group, organised jointly with Jonathan Birch; AD HOC (Association for the Discussion of the History of Chemistry), organised jointly with

Jennifer Rampling, coordinated with monthly meetings in London (at UCL), both series supported by funding from SHAC (Society for History of Alchemy and Chemistry); and from Easter Term 2011, Philosophy and History of Physics Reading Group, organised jointly with Jeremy Butterfield and Nazim Bouatta (and Simon Schaffer from summer 2011).

Publications

Articles in books

- (with G Fisher) 'What the Ravens Really Teach Us: The Intrinsic Contextuality of Evidence', in W Twining, P Dawid, and M Vasilaki (eds) *Evidence, Inference and Enquiry*, Proceedings of the British Academy 171 (Oxford University Press and the British Academy, 2011), 341–366
- 'Beyond Case-Studies: History as Philosophy', S Mauskopf and T Schmaltz (eds) *Integrating History and Philosophy of Science*, Boston Studies in the Philosophy of Science 263 (Springer, 2011) [publication in August 2011, no page numbers yet]

Articles in journals

- 'The Hidden History of Phlogiston: How Philosophical Failure Can Generate Historiographical Refinement', *HYLE – International Journal for Philosophy of Chemistry* 16:2 (2010), 47–79
- 'How Historical Experiments Can Improve Scientific Knowledge and Science Education: The Cases of Boiling Water and Electrochemistry', *Science and Education* 20 (2011), 317–341
- 'The Philosophical Grammar of Scientific Practice', *International Studies in the Philosophy of Science* 25 (2011), 205–221
- 'Compositionism as a Dominant Way of Knowing in Modern Chemistry', *History of Science* 49 (2011) [publication in September 2011]

Reviews

- Review of E Scerri, *Collected Papers on Philosophy of Chemistry*, in *Ambix* 58 (2011), 171
- Review of B Bensaude-Vincent and J Simon, *Chemistry: The Impure Science*, in *Metascience* 19 (2010), 373–377.

Lectures, seminars and conferences

October 2010

- 'Success and Maturity: Re-Framing the Realism Debate', Department of Philosophy, University of Missouri – St. Louis
- 'So You Think Water Boils at 100°C/212°F? Learning Science from History', University of Missouri – St. Louis
- 'Reductionism and Scientific Disciplines', *Battle of the Sciences*, Triple Helix Society, Cambridge
- 'What Does It Mean To Be "Scientific"? Critique vs. Orthodoxy', Institute of Cancer Research

November 2010

- 'Acidity: The Persistence of the Everyday in the Scientific', Biennial Conference of the Philosophy of Science Association, Montreal

January 2011

- 'Active Scientific Realism', Moral Sciences Club, Cambridge
- 'Introduction to the Philosophy of Science', *Theory and Methods: Literature, Science and Medicine, Event 4: Philosophy and Sociology of Science for Literature and History Students*, CHSTM, University of Manchester

February 2011

- 'When Water Does Not Boil at the Boiling Point', Stokes Society, Pembroke College, Cambridge

May 2011

- 'A Case for Scientific Pluralism', Science Studies Colloquium, University of California, San Diego

June 2011

- 'Chemical Atomism: Progress through Pluralism', 3rd Biennial Conference of the Society for Philosophy of Science in Practice, University of Exeter

July 2011

- The Nature of Scientific Evidence*, Vienna Summer International University (2 weeks), University of Vienna/Vienna Circle Institute

September 2011

'Getting Your Hands Dirty', laboratory workshop, Postgraduate Workshop in the History of Alchemy and Chemistry, for the Society for History of Alchemy and Chemistry, at Cambridge
'Chemistry and the Limits of Human Knowledge', Alumni Weekend, Clare Hall, Cambridge

Peter Collins

Based at the Royal Society, my research is focused on the postwar history of the Society. One aspect of this is detailed interviews with major figures within and beyond the Society able to give a perspective of it as an institution. I have so far completed over 50 agreed transcripts of such interviews, lasting typically 90 minutes (c 10 000 words) each, which I plan to put into the public domain in due course.

Publications

Articles in journals

'The story of Chicheley Hall', *Notes and Records of the Royal Society* 65 (2011), 183-196

Articles in journals Online

'Presidential politics: the controversial election of 1945', *Notes and Records of the Royal Society* 65 (published online 9 June 2011)

Lectures, seminars and conferences

November 2010

'Presidential politics: how Henry Tizard did not become PRS in 1945' Lecture at the Royal Society Centre for History of Science, 19 November

January 2011

'The Royal Society and the communication of science', *Communicating Science and Technology France and the United Kingdom, Historical Perspectives*, Maison Francaise, Oxford 14-15 January

February 2011

'The pre-history of the Fellowship of Engineering' Lecture to the Royal Academy of Engineering, 22 February

May 2011

'A history of the Royal Society in the 20th century', *Science Voices conference* Royal Society 13-14 May

September 2011

'Hopkins and the Royal Society' *Hopkins symposium* Department of Biochemistry, Cambridge 26 September

Rohan Deb Roy

Publications

Articles in books

'Maladies of Modernity: Malaria and the Making of Burdwan Fever', in Saurabh Dube (ed.), *Modern Makeovers: Handbook of Modernity in South Asia*, New Delhi: Oxford University Press, 2011, p. 59-75.

'Debility, Diet, Desire: Food in Nineteenth and Early Twentieth Century Bengali Manuals', in Surpiya Chaudhuri and Rimi B Chatterjee (ed.), *The Writer's Feast: Food and the Politics of Representation*, (Orient Blackswan, 2011), 179-205

Reviews

Review of Ka Che-Yip (ed), *Disease, Colonialism and the State: Malaria in Modern East Asian History in Social History of Medicine*, 24 (2011), 172-173.

Lectures, seminars and conferences

October 2010

'Pure' Quinine, Insect pests and Malarial Maladies in British India, 1890-1910', *Public and Private: Lives, Institutions and Practices*, Centre for Studies in Social Sciences Calcutta

January 2011

'Imperial Power and Nonhuman actors', *Commodities and Affect*, Centre for Advanced Studies in English Literature, Jadavpur University

June 2011

Participated as an invited discussant, *Artefacts in Encounter Workshop*, Caius and Gonville College, Cambridge

M.J. Dobson

Mary Dobson is currently writing a book on the history of medicine entitled *The Story of Medicine – Humanity's 3000-year Quest to Conquer Pain, Illness and Disability* which will be published by Quercus in 2012 and will be a companion volume to her recent publication *Disease – the Extraordinary Stories Behind History's Deadliest Killers*.

Publications

Books

Disease – the Extraordinary Stories Behind History's Deadliest Killers (Quercus, 2007; translated into Japanese, 2010, by Igaku-Shoin Ltd., Tokyo; and Chinese, 2010, by Ho-Chi Book Publishing Co., Taipei, Taiwan)

Dr Patricia Fara

The British Society for the History of Science has awarded me the biennial Herbert Dingle prize for the best book taking history of science to general audiences. This year I have appeared on two radio programmes: I was interviewed for *Woman's Hour* about Marie Curie, and participated in, *In our Time* on Women and science in the eighteenth century. I have been interviewed for several TV documentaries, and am acting as consultant on a National Geographic TV series as well as for several children's books on science and its history. I was invited to a dinner hosted by David Cameron at 10 Downing Street to discuss the future of scientific research in Britain, and wrote an article for *House*, parliament's internal magazine.

Publications

Books

Science: A Four Thousand Year History: published in Korean, Spanish and German translation

Articles in journals

'Why Mark Erickson should read different histories of science', *History of the Human Sciences* 23 (2010), 92-4

'Versions of Vesalius,' *Endeavour* 36 (2011), 5-6

'Of moas and men: Richard Owen's Dinosaur Dinner', *Endeavour* 34 (2010) 140-1

Reviews

Review of P M Harman, *The Culture of Nature in Britain 1680-1860*, in *British Journal for the History of Science* 44 (2011), 126-7

Review of L. Redniss, *Radioactive: Marie & Pierre Curie: A Tale of Love and Fallout*, in *Chemical Nature* 3 (2011), 263

Review of C. Fox, *The Arts of Industry in the Age of Enlightenment*, in *British Journal for the History of Science* 43 (2010), 488-9

Lectures, seminars and conferences

November 2010

'Triangulations': British Society for the History of Mathematics, annual lecture at Gresham College

January 2011

'4000 years in 400 pages', lecture at Dillington House, Somerset

February 2011

'Ghosts of Women Past', lecture at the Royal Society, London

March 2011

'Trade-Offs', Seminar series on writing popular histories of science, Barcelona and Valencia (two lectures)

June 2011

'What is Science?' Belief in Dialogic: Science, Culture and Modernity, British Council Conference, University of Sharjah, UAE

'Faces of Genius' Department of Civil Engineering, University of Bucharest

Karin Ekholm

I began my position as Research and Teaching Associate in History of Medicine in January 2011.

In April 2011, I participated in a presentation at the Wellcome Collection outreach event, "Elements".

Lectures, seminars and conferences

May 2010

'Alchemical processes and metaphors in Highmore's theory of generation', *Alchemy and chemistry: continuities and fractures*, Oxford Brookes University, Oxford

June 2010

'The anatomy of generation and its images: from Padua to England, 1600–1651', *Bodies for Knowledge: Perspectives on Anatomy, 1600-1900*, 2nd Open University History of Medicine Workshop, Open University, London

"Reader, stop! Look at the door before you examine the house": Highmore's emblematic title page', *Images in Comparative Perspective: The Use and Interplay of Visual Forms in Astronomy and Allied Sciences, 1450-1650*, Astronomical Diagrams Group Workshop, Cambridge

'Extracting theories of generation from chemical operations', 80th Anglo-American Conference of Historians: *Health in History*, London

July 2010

'The Protean Vegetable Phoenix: Reports of Palingenesis in Seventeenth-century Europe', "Impossible Experiments" in *Early Modern Europe*, British History of Science Society Annual Conference, Exeter

September 2010

"First examine the face to read the man," Highmore's 1651 title page', *Archives of the body*, Hughes Hall, Cambridge

Isla Fay

Isla joined the Department in March as Research Associate on the AHRC-funded project *Diagrams, Figures and the Transformation of Astronomy, 1450-1650*, having previously worked as a computer programmer. She is producing a research database for the project (which already contains 500 images from early-modern printed books) and co-organised a successful summer workshop on early modern scientific diagrams. With Nick Jardine, she is now editing the workshop's proceedings together with those of last year's workshop. She has also received a research award from the Scouloudi Foundation (Institute of Historical Research) towards forthcoming publications on urban sanitation, 1500-1600. She is working on a monograph on urban health culture as well as an edition of Norwich's sixteenth-century *River and Street Accounts* for Norfolk Records Society.

Lectures, seminars and conferences

June 2011

'Research database', *Images in Comparative Perspective: The Use and Interplay of Visual Forms in Astronomy and Allied Sciences, 1450-1650*, Cambridge University Library

September 2011

'Building a healthy environment: Norwich and corporate hygiene in the mid-sixteenth century', *Archives of the Body: Medieval to Early Modern*, University of Cambridge

David Allan Feller

I am currently a junior research fellow at Darwin College, Cambridge, with research interests in natural history, primarily in the nineteenth and twentieth centuries; law and science; extra-visual sensory perception and scientific fieldwork; animals in science, especially animal husbandry and the epistemic consequences of enrolling animals in the scientific enterprise; and intersections of visual art and science.

My current projects include the publication of my doctoral thesis, 'The Hunter's Gaze: Charles Darwin and the role of dogs and sport in nineteenth-century natural history', and a post-doctoral program in the medical roots of British geology, 1780-1840.

Publications

Articles in books

'Heir of the Dog: Canine Influences in Charles Darwin's Theories of Natural Selection', in *Tierische Geschichte*, ed. By D. Bratz and C. Mausch (Paderborn 2010) (English translation forthcoming).

Articles in journals

'Dog Fight: Darwin as Animal Advocate in the Antivivisection Controversy of 1875', in *Studies in History and Philosophy of Biological and Biomedical Sciences*, November 2009.

Private Enforcement of Federal Anti-pollution Laws-A Model.' In *Denver Law Journal*, vol. 60 (1983), 553.

Reviews

Review, 'Darwin Studies: a theorist and his theories in context', by M.J.S. Hodge. In *Pacific Circle Bulletin*, (September 2010)

Review, 'What Animals Mean in the Fiction of Modernity', by Philip Armstrong. In *British Society for Literature and Science* (2009)

Review, 'Charles Darwin, Geologist', by S. Herbert. In *Pacific Circle Bulletin*, (September 2007)

Review, 'The Heretic in Darwin's Court: The Life of Alfred Russel Wallace', by R. Slotten. In *Pacific Circle Bulletin* (2005)

Review, 'Darwin: the Power of Place', by Janet Browne. In *Pacific Circle Bulletin* (2004)

Lectures, seminars and conferences

February 2004

'Einstein in America', presented at the Phi Alpha Theta Historical Conference, University of Hawaii, Honolulu, Hawaii

February 2005

'Darwin as Primitivist: Dogs were best in show', presented at the Phi Alpha Theta Historical Conference, University of Hawaii, Honolulu, Hawaii

May 2005

'Heir of the Dog: Canine Influences in Charles Darwin's Theories of Natural Selection', presented at 'Animals in History', Conference of the German Historical Institute, Cologne, Germany

January 2006

'Darwin and His Dogs', Presentation to the American Museum of Natural History, New York, (In conjunction with AMNH Darwin Exhibition)

August 2008

'Guide Dogs for the Sighted: The Role of *Canis familiaris* in Constructing Images of Victorian Town and Country', co-authored with Allison Ksiazkiewicz. Presented at the 'Animal Minds' Conference, University of Toronto

July 2010

'William Buckland's oral history of deep time: things that made him go mmmmm'. Presented at the BSHS Annual Conference, Aberdeen

July 2011

'Predatory Poetry and the development of nineteenth century natural sciences'. Presented at the BSHS Annual Conference, Exeter

John Forrester

Head of Department. On leave 2011. In Michaelmas 2010 continued to act as co-convenor, with Prof Mary Jacobus of the Faculty of English and Dr Andrew Webber, Department of German, of an interdisciplinary group, *Culture and History of Psychoanalysis*, sponsored by CRASSH, and its reading group. He continues to edit the journal *Psychoanalysis and History*. Participant in *Generation to Reproduction Reading Group*. HPS representative, Council of the School of Humanities and Social Sciences (M10).

Publications

Articles in books

'Wittgenstein und Cambridge. Heimat eines Wanderers', in Drehmel, Jan and Kristina Jaspers (eds.), *Ludwig Wittgenstein. Verortungen eines Genies*, Berlin: Schwules Museum, 2011, pp. 28-33

Articles in journals

'The psychoanalytic passion of J.D. Bernal in 1920s Cambridge' *British Journal of Psychotherapy* 26(4) (2010): 397-404

Lectures, seminars and conferences

October 2010

'Foucault and Laqueur on masturbation' Contribution to a Symposium on the work of Thomas Laqueur, CRASSH, Cambridge, 29th October

November 2010

Leader of discussion, *Brave New World* and early C20 reproductive fictions, *Wellcome Strategic Award Workshop*, HPS, Cambridge, 2nd November

'Falling in and out of love with Philosophy' Contribution to **Philosophy at Cambridge** Conference, 19-20th November, Hughes Hall, Cambridge

'Psychoanalysis and Cambridge Scientists in the 1920s' Lecture to British Psychoanalytic Society/Science Museum, Special Exhibition/Series: **Psychoanalysis: The unconscious in everyday life**, 24th November 2010

'Psychoanalysis and Cambridge Scientists in the 1920s' Psychoanalysis Seminar, St John's College, Oxford, 29th November 2010

December 2010

'Freud, English Psychoanalysis and Twentieth Century Culture' Paper given to conference on **Freud and Twentieth Century Culture**, Centre for Latin American Studies, Princeton, 4th December 2010

'Psychoanalysis and Cambridge Scientists in the 1920s' Program in History of Science, Princeton University, 6th December 2010

March 2011

'Introduction and Discussion' at screening of *The Stepford Wives*, **Reproductive Dystopias** Series, Picturehouse Cinema, Cambridge, 14th March

April 2011

'Psychology, psychoanalysis and sex in the 1920s' Wellcome Trust Strategic Award, 'Generation to Reproduction, Workshop, **Reproduction and the Sciences in Cambridge**, 8 April

'Historical notes on 'the psychiatry complex': market forces, legal imperatives and moral treatment' Conference: **Situating Mental Illness. Between Scientific Certainty and Personal Narrative**, European Neuroscience & Society Network, Berlin, 28-29 April

May 2011

“‘I could have worshiped the abased and mutilated remnant of the Temple’: A Jew in Rome”, Paper contributed to Second Workshop on **Freud’s Rome**, Max Planck Institut für Wissenschaftsgeschichte, Berlin, 2nd May
Three Seminars on pre-circulated papers: John Forrester, ‘Freud in Cambridge: Work in Progress’, King’s College, Cambridge

‘Becoming Freudian in Cambridge after the Great War’; 10 May

‘Discipline Formation: Psychology, Anthropology, English’; 11 May

‘A Psychoanalytic Debate in 1925: Keynes, Wittgenstein, Tansley and others’; 12 May

‘Stoller between gender and pleasure in an era of revolutionary change’, **Robert Stoller Memorial Lecture**, New Center for Psychoanalysis, Los Angeles, 19th May

‘Imperialism, purification and the scientific subject: The epistemological choices of psychoanalysis’. Paper pre-circulated for discussion at Workshop, New Center for Psychoanalysis, Los Angeles, 21st May

June 2011

Round Table on ‘Translation in the Human Sciences’, Conference on **‘Reading against the Grain? National Historiographies in the Human Sciences seen from an outsider perspective’** University of Chicago–Paris Centre, Paris, 9-10 June

‘Why is transcendence a useless category for the history of psychoanalysis?’ **New College Symposium: Transcendence, Idealism and Modernity**, 16-17 June, New College, Oxford

Jeremy Gray

- Confirmed as a member of the French "Laboratories for excellence" evaluation process.
- Invited to join the editorial board of the Manifold Atlas, a web-based resource on the topology of manifolds, including their history, organised through the Hausdorff Institute for Mathematics, Bonn.
- Chair of the committee nominating the winner of the first Neugebauer Prize for the history of mathematics of the European Mathematical Society

Publications

Articles in books

Poincaré and complex function theory, 3—22 in *Construction: Festschrift for Gerhard Heinzmann* (P.E. Bour, M. Rebuschi, L. Rollet (eds) Tributes, vol. 14, College Publications, 2010.

Lectures, seminars and conferences

April 2011

Invited speaker: Paris-Diderot Philosophy of Math Seminar, Session on 19th Century Philosophy of Mathematics; I
Lectured on Poincaré and proof

Books submitted

A history of complex function theory (with Prof. U. Bottazzini, Milan) vol. 1 accepted for publication in HMath, the American and London Mathematical Societies’ series in the history of mathematics for publication in 2011, vol. 2 under review

A History of Mathematics (with June Barrow-Green and Robin Wilson) Volume 1 accepted for publication by the Mathematics Association of America, 2010 on submission of volume 2.

Vanessa Heggie

This year Vanessa has been working on a Wellcome Trust/Isaac Newton Trust sponsored project, researching the history of extreme physiology, scientific exploration, and experimentation in extraordinary environments. The first paper from this project, on Everest and respiratory physiology, will be published next year. She is currently drafting two monographs, one related to her extreme physiology research project, and another on athletes as experimental subjects in the long twentieth century.

Publications

Books

A History of British Sports Medicine (Manchester University Press, 2011)

Articles in journals

‘Testing sex and gender in sports; reinventing, reimagining and reconstructing histories’ *Endeavour* 34 (2010), 157-163

‘Health Visiting and District Nursing in Victorian Manchester; divergent and convergent vocations’ *Women’s History Review* 20 (2011), 401-422

‘Domestic and domesticating education in the late Victorian City’ *History of Education* 40 (2011), 273-290

‘Sport (and Exercise) Medicine in Britain; healthy citizens and abnormal athletes’ *Canadian Bulletin of Medical History* 28 (2011).

Online

‘Guest Post: A History of British Sports Medicine’ *Wellcome History Blog*, 4 March 2011
<http://wellcomelibrary.blogspot.com/2011/03/guest-post-history-of-british-sports.html>

Lectures, seminars and conferences

November 2010

‘Respiratory Physiology and the Climbing of Mount Everest, Both In and Out of the Laboratory’ *History of Science Society Annual Conference*, Montreal, Canada

March 2011

‘Panel Session: the ‘spell’ of the Arctic’ *2011 Scott Polar History Colloquium*, Scott Polar Research Institute, Cambridge

June 2011

‘Why isn’t exploration a science?’ *Cabinet of Natural History (Garden Party)*, HPS, Cambridge

July 2011

‘Exercise, sport and healthy living, from 1930-2011’ (public lecture) *Threads and Yarns Special Event*, Victoria & Albert Museum, London.

Nick Hopwood

Nick Hopwood, a senior lecturer in the Department, served as Part IB manager and a Part II examiner and ran our Wellcome Trust strategic award in the history of medicine on the theme ‘Generation to Reproduction’. Among the outreach activities funded by this grant, he co-curated an exhibition on *Books and Babies: Communicating Reproduction* at the University Library (July–December 2011) and helped put on a series of six films on ‘Reproductive Dystopias’ at the Arts Picturehouse (March). He joined the Wellcome Digital Library programme board and advisory committee, and continued to sit on the Wellcome Trust Research Resources in Medical History funding committee. He also began stints as external examiner for undergraduate and master’s courses at the Manchester Centre for the History of Science, Technology and Medicine and as an advisory editor of *Isis*.

Publications

Articles in books

‘Human embryos’ in *Eine Naturgeschichte für das 21. Jahrhundert: Hommage à, zu Ehren von, in Honor of Hans-Jörg Rheinberger* (Max-Planck-Institut für Wissenschaftsgeschichte, 2011), 193–195

‘Approaches and species in the history of vertebrate embryology’ in Francisco J Pelegri (ed) *Vertebrate Embryogenesis: Embryological, Cellular and Genetic Methods* (Humana Press, 2011), 1–20

Articles in journals

‘Letter to the editor’ (in response to D Gasman), *Isis* 101 (2010), 838

Lectures, seminars and conferences

November 2009

‘Haeckel’s pictures of embryos: alleged forgeries as icons of evolution’, History Faculty, University of Oxford

January 2010

'Making visible embryos', Darwin Society, Christ's College, Cambridge

February 2010

'Icons of evolution and charges of fraud', Cambridge University Biological Society and Trinity College Science Society

April 2010

(With M Johnson, J Forrester and F Neary) Organized *Reproduction and the Sciences in Cambridge*, Department of Physiology, Development and Neuroscience, University of Cambridge

May 2010

'Copying pictures, making icons: from alleged forgeries to textbook illustrations' (lecture), '3-D models: processes of representation and research' (workshop) and comments on seven student papers, *Visual Representations in Science*, 6th European Spring School on History of Science and Popularization, Maó, Menorca

'Pictures of embryos and charges of fraud', keynote lecture, 23rd Nordic Medical History Congress, Oslo

June 2010

'Preserved embryos', public keynote lecture to open *Wet Preparations: Anatomy, Pathology and the Body Contained*, a workshop of the AHRC *Cultures of Preservation* research network, Hunterian Museum, Royal College of Surgeons

(With J Browne, C Groeben and H-J Rheinberger) Organized the week-long Twelfth Ischia Summer School on the History of the Life Sciences, Ischia, Italy, on the theme *Biology and the Public: Participation and Exclusion from the Renaissance to the Present Day*, with support from the Wellcome Trust, Max Planck Institute for the History of Science and Naples Zoological Station

'Introduction to the theme', Ischia Summer School on the History of the Life Sciences

Jiri Hudecek

I have been writing up my PhD dissertation this year. In addition, I have written the article 'Ancient Chinese Mathematics in Action: Wu Wen-Tsun's Ethnic Historicism after the Cultural Revolution' for the special issue on science and nationalism of *East Asian Science, Technology and Society* (accepted, under revision), and reviews of the books O Lomová (ed.), *Paths Towards Modernity: Conference to Mark the Centenary of Jaroslav Průšek*, to appear in *Studia Orientalia Slovaca*, and R Hart, *The Chinese Roots of Linear Algebra*, to appear in *Historia Mathematica*.

Lectures, seminars and conferences

December 2010

'Governing the Queen of the Sciences: the Party, the State and the Institute of Mathematics, Chinese Academy of Sciences, 1949-1966', *Science and State in East Asia*, Needham Research Institute, Cambridge

March 2011

'From Differential Equations to Computer Proofs: Wu-Ritt Method of Polynomial Elimination', British Society for the History of Mathematics Work in Progress Series, Queen's College, Oxford

April 2011

'History of Science in Action: Why Ancient Chinese Mathematics Appealed to Wu Wen-Tsun', Graduate Seminar of the Department of East Asian Studies, University of Cambridge

May 2011

'Ancient Chinese Mathematics in Action: Wu Wen-Tsun's Ethnic Historicism after the Cultural Revolution', History Workshop, HPS Cambridge

July 2011

'The Construction of Traditional Chinese Mathematics: Wu Wen-Tsun and the Rest', 13th International Conference on the History of Science in East Asia, Hefei, China (invited plenary talk)

Nick Jardine

Nick retired in September 2010, but has remained committed to lecturing, graduate supervision, graduate training,

examining and co-organisation of seminars, notably the Latin and Greek Therapy Groups, Cabinet of Natural History and Kant Reading Group. With Marina Frasca-Spada and Renée Raphael he continues to edit *Studies in History and Philosophy of Science* and *Studies in History and Philosophy of Biological and Biomedical Sciences*. He has kept up his work on critical editions of the works of Nicolaus Ursus for the BA and CNRS sponsored project 'Conflict and Priority in Early-modern Astronomy' (2003–). He most deeply regrets the recent death of Alain Segonds, co-director of this project. On a project sponsored by the University of Barcelona he is collaborating with Adam Mosley (University of Swansea) and Miguel Granada (University of Barcelona) on a critical edition, English and Spanish translations, commentaries and essays on Christoph Rothmann's *Scriptum de cometa*. The AHRC project "Diagrams, Figures and the Transformation of Astronomy, 1450–1650" (with Sachiko Kusukawa, Isla Fay, Liba Taub, Isabelle Pantin, Renée Raphael, Chris Lewis, and Katie Taylor), has flourished, holding regular seminars, editorial meetings and translation sessions, as well as a second highly successful international workshop "Images in Comparative Perspective: The Use and Interplay of Visual Forms in Astronomy and Allied Sciences, 1450–1650". Nick has now actively re-engaged with his long-promised book *On Histories of the Sciences*. He is also devoting ever more time to the history, philosophy and sociology of fungi, and has been appointed Senior Treasurer of the Cambridge Mycological Society. Since January 2011 he has greatly enjoyed working as a consultant on the Cambridge Scientific Heritage Project (in association with John Forrester, Liba Taub, Lydia Wilson and others).

Publications

Edited special issues

Forms and Functions of Early Modern Celestial Imagery, Parts I and II, Journal for the History of Astronomy, 41(3), 2010; 42(1), 2011 (with R. Raphael).

Edited collection

Recipes for Disaster, Latin Therapy Group Booklet, Cambridge (ed. and intro. with J. Rampling and D. Banham)

Article in collection

'Avoiding disaster in translation: on the advantages of "old friends"', in J. Rampling et al. (eds.), *Recipes for Disaster*, Latin Therapy Group Booklet, 2010.

Journal articles

'Critical editing of early-modern astronomical diagrams', in N. Jardine and R. Raphael (eds), *Forms and Functions of Early Modern Celestial Imagery, Part 1, Journal for the History of Astronomy*, 41(3), 2010, 393–414 (with B. Jardine).

Essay review

'Objectivity, epistemology and critique: essay review of L. Daston and P. Galison, *Objectivity*', *British Journal for the History of Science*, 44(3).

Lectures, seminars and conferences

October 2010

'"K=K: Koestler's empathetic engagement with Kepler', Journée d'étude internationale sur les Somnambules d'Arthur Koestler', CNRS, L'Observatoire de Paris

May 2010

'Models for the circulation of scientific knowledge', School of Divinity, Philosophy and History, University of Aberdeen

Richard C Jennings

Richard Jennings directs the studies of and supervises about a quarter of the HPS IB students in philosophy of science. He 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. He continues to play an active role in the Ethics Expert Panel of the British Computer Society (BCS), which takes a proactive part in advising the BCS on issues of professional ethics. In the summer he teaches a course on Darwin as part of the Pembroke College International Programme.

Publications

Edited books

(with David Bennett) *Successful Science Communication: Telling It Like It Is* Cambridge University Press, September 2011

Articles in books

'Science: truth and ethics' in D Bennett and R Jennings (eds) *Successful Science Communication: Telling It Like It Is* (Cambridge University Press, September 2011), 45-59

Articles in journals

(with Ian Harris, et. al.) 'Ethical Assessment of New Technologies: A Meta-Methodology' *Journal of Information, Communication and Ethics in Society*, **9** (2011) 49-64

Online

(with M Antoniou, et. al.) *Roundup and birth defects: Is the public being kept in the dark?*
<http://www.scribd.com/doc/57277946/RoundupandBirthDefectsv5> (Earth Open Source, 2011)

Lectures, seminars and conferences

January 2011

"Ethics in/of Physics" two workshops on ethical issues that arise in the practice of physics, Cavendish Laboratory, Cambridge

February 2011

"Ethics in/of Physics" two workshops on ethical issues that arise in the uses of physics, Cavendish Laboratory, Cambridge
Scientists for Global Responsibility stall at "The Works" – Cambridge University's alternative careers fair
"Communication outside the box" Symposium in the Science and Society section of the AAAS Annual Meeting in Washington DC

March 2011

"Science: Truth and Ethics" a Presentation on science communication to the Norwegian Science Festival key-coordinators during the University of Cambridge Science Festival

April 2011

"Key Science Policy Research Questions", a workshop organized by the Cambridge Centre for Science and Policy, Robinson College and Møller Centre Cambridge

May 2011

Workshops on Ethical Conduct of Research, Wellcome Trust Sanger Institute

June 2011

Workshops on Ethical problems in the Use and Practice of Science, Wellcome Trust Sanger Institute

Stephen John

Publications

Articles in books

"Cancer screening, risk stratification and the ethics of apt categorisation: a case study" forthcoming in Strech, D, Hirschberg, I and Marekman, G *Ethics in Public Health and Health Policy* (Springer International: expected publication: 2012)

"Concepts of risk and precaution" in Dawson, A. (ed.) *Public Health Ethics: Key Concepts and Issues in Policy and Practice* (Cambridge: Cambridge University Press)

Articles in journals

(In press) "Why the prevention paradox is a paradox, and why we should solve it: a philosophical view" *Preventive Medicine*

“Expert testimony and epistemological free-riding: a case-study of the controversy over the MMR vaccine” *The Philosophical Quarterly* 61(244), July 2011, pp495-517
“Security, knowledge and well-being”, *Journal of Moral Philosophy* 8(1), Mar 2011, pp68-91

Lectures, seminars and conferences

December 2010

“Why not to socialise our social epistemology” Philosophy Workshop One Day Conference, University of Cambridge

February 2011

“Cancer screening and the ethics of apt categorisation” Public Health Ethics Young EU Scholars workshop, University of Hannover

June 2011

“Public Health policy and political philosophy: some maps” One day workshop on public health policy and political philosophy, University of Keele

“Is medical research more like building a house or more like hitting a nail?” Society for Philosophy of Science in Practice Conference, University of Exeter

August 2011

“Is medical research more like building a house or more like hitting a nail?” European Consortium for Political Research Annual Conference, University of Reykjavik

Peter Jones

The exhibition ‘Books and Babies’ opened at Cambridge University Library in July 2011, and working with the team preparing for this has absorbed a lot of time, but also proved very enjoyable and stimulating. I am working on several articles for the Generation to Reproduction project, and have prepared a bookblog article and vodcast. For the final year I have lectured on ‘Medicine and communications, 1375-1641’ for Paper 7 in HPS Part II, and supervised students taking this paper, which will be replaced by the new Paper 2 next year.

Publications

Articles in books

‘Image and Medicine’, and catalogue entries, in G. d’Andiran (ed.) *Early Medicine, from the Body to the Stars* (Schwabe Verlag, 2010), 50-56.

(with I. Taavitsainen, P. Pahta, T. Hiltunen, V. Marttila, M. Ratia, C. Suhr, J. Tyrkko), ‘Medical texts in 1500-1700 and the corpus of Early Modern English Medical Texts’, in I. Taavitsainen, P. Pahta (ed.) *Medical Writing in Early Modern English* (Cambridge University Press, 2011), 9-29

‘Medical literacies and medical culture in early modern vernacular medicine’, in I. Taavitsainen, P. Pahta (ed.) *Medical Writing in Early Modern English* (Cambridge University Press, 2011), 30-43

‘Medieval Wiki’, in K. Sabbagh (ed.), *A Book of King’s: Views of a Cambridge College* (Third Millennium Information, 2011), 125-128

‘Mediating Collective Experience: the *Tabula Medicine* (1416-1425) as a Handbook for Medical Practice’, in F.E. Glaze, B.K. Nance (ed.) *Between Text and Patient: The Medical Enterprise in Medieval & Early Modern Europe*, Micrologus’ Library 39 (SISMEL, 2011), 279-307

Online

Medicine (Medieval Studies): www.oxfordbibliographiesonline.com/ (2010)

(with Mary Fissell, Nick Hopwood, Francis Neary, Jim Secord) *Books and Babies*: www.lib.cam.ac.uk/exhibitions/Babies/ (2011)

Lectures, seminars and conferences

October 2010

'Medical communication in the eighteenth century', *Medicine in Transition: Late Modern English medical writing in a historical perspective*, Varieng, Helsinki

November 2010

'Quintessence works one hundred times better': Alchemy and the medical practitioners before Paracelsus', Institute for Medieval & Early Modern Studies, Lampeter

'Reproduction: of Books and Babies: An Exhibition at Cambridge University Library, July- December 2011', *Interdisciplinary Workshop on Reproduction 6*, HPS

'Medicine in images, images in medicine', *Medieval Medicine Discussion Group*, HPS

'Medicine in images, images in medicine', *Les signes de la maladie et l'harmonie du monde. Histoire, science, éthique*, Fondation Hardt, Geneva.

March 2011

'Physic for Princes in peril at the English Court, 1454-1554', *Children and their Bodies at Court*, Queen Mary, University of London

Lauren Kassell

Lauren Kassell continued as Part II Manager and College Liaison Officer in HPS; as the HPS representative on the committee setting up the new triposes on the Human, Political and Social Sciences and the Psychological and Behavioural Sciences; and as Director of Studies in HPS and Tutorial Bursar at Pembroke College. She directs 'The Casebooks Project: A Digital Edition of Simon Forman and Richard Napier's Medical Records', funded by a Wellcome Trust Programme Award (2010-13). She completed her term on the Wellcome Trust Medical History and Humanities Funding Committee. She's an External Examiner for the MA in the Social History of Medicine at the University of Warwick and is on the Editorial Boards of *Social History of Medicine* and *Renaissance Studies*. She will be on leave 2011-13, funded by the Wellcome Trust Strategic Award on 'Generation to Reproduction' and Wellcome Trust Research Leave.

Publications

Articles in books

'Almanacs and Prognostications', in Joad Raymond (ed.), *The Oxford History of Popular Print Culture, Volume One: Cheap Print in Britain and Ireland to 1660* (Oxford: Oxford University Press, 2011), 431-42

'*Ludicrum chiromanticum Praetorii; seu, thesaurus chiromantiae* (1661)', in Michael Sappol (ed.), *Hidden Treasure: 175 Years of the National Library of Medicine* (in press)

'Astrology', 'Potions/Drugs', 'Magic', 'Alchemy', 'Simon Forman', Patricia Parker (ed.), *The Greenwood Shakespeare Encyclopedia*, 5 vols. (Westport, Connecticut: Greenwood Publishing, in press)

'Sexual Science 1500-1750', in Kate Fisher and Sarah Toulalan (eds), *The Routledge History of the Body and Sex in the West since 1500* (forthcoming)

Articles in journals

'The Astrologer's Tables', *History Today*, 61 (September 2011), pp. 18-24.

'Secrets Revealed: Alchemical Books in Early-Modern England', *History of Science*, xlviii (March 2011), 1-27 and A1-38

Online

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

Lectures, seminars and conferences

May 2011

Research Grant Workshop, Centre for Material Texts (Cambridge)

Panel on 'Challenges facing the next generation' with Richard Fisher (CUP) and Jane Withers (IHR), 'Humanities Research: The Future Might be Digital', CRASSH

September 2010

Simon Forman: Astrology, Medicine and Quackery in Elizabethan England. A public lecture at the Museum of the History of Science, Oxford

Melanie Keene

This year Melanie continued her Junior Research Fellowship at Homerton College, Cambridge, and was elected to College Council. She lectured in HPS on 'Evolution' and 'Science for All' for part II paper 3, and in the Education Faculty on Froebel and Montessori. She helped organise the Science and Literature Reading Group, with Daniel Friesner and Liz Smith. She edited *Viewpoint*, the newsletter of the British Society for the History of Science, and helped judge their Dingle Prize; she also continued her work turning tables with their Outreach and Education Committee's 'Strolling Players', and she organised a session on 'How the Clothes Got Their Colour' with the History of Science Section of the British Science Association.

Publications

Articles in journals

'Once upon a time...' *New Scientist* (25th December 2010-1st January 2011), 40-42.

Reviews

Sally Shuttleworth, *The Mind of the Child: Child Development in Literature, Science and Medicine, 1840-1900*, BSLs book reviews website www.bsls.ac.uk (Jan. 2011).

Peter Bowler, *Science for All: Popular Science in Early Twentieth-Century Britain*, *Centaurus* **42** (2010), 355-356.

Lectures, seminars and conferences

July 2011

'Fiction and Facts in Fairyland', Literature and Science Workshop, University of Aberdeen

'Fairy Miners: Robert Hunt and the Spirits of Nature', BSHS Annual Conference, Exeter

May 2011

'The Fairy-Tales of Science', History of Childhood Seminar, University of Oxford

'Familiar chemistry', AD HOC, London

'The Fairy-Tales of Science', Cabinet of Natural History, HPS, University of Cambridge

'Reconciling Fact and Fiction in the Study of Children's Literature; or, Is Conversations on Chemistry canonical?', 'Scientific Canons' conference, University of East Anglia

March 2011

'Life after Death: Resurrected Fossils and Immortal Spirits in John Mill's *The Fossil Spirit: A Boy's Dream of Geology* (1854)', Explora 'Extinction' Conference, Toulouse

February 2011

'The Fairy-Tales of Science', Children's Literature Seminar, University of Cambridge

December 2010

'On familiarity: how to learn about science in nineteenth-century Britain', CRASSH work-in-progress seminar, University of Cambridge

October 2010

'The Familiar Production of Scientific Knowledge', 'The Cultural Production of Natural Knowledge' symposium, University of Warwick

'The Science of Common Things', Cardiff Scientific Society

Martin Kusch

Publications

Articles in books

'Social Epistemology' in S. Bernecker and D. Pritchard (eds.), *The Routledge Companion to Epistemology* (Routledge, 2010), 873-884

'Wittgenstein and Einstein's Clocks' in E. Ramharter (ed.), *Ungesellige Geselligkeiten / Unsocial Sociabilities: Wittgensteins Umgang mit anderen Denkern / Wittgenstein's Sources* (Parerga, 2011), 203-218

Articles in journals

'Hacking's Historical Epistemology: A Critique of Styles of Reasoning', *Studies in History and Philosophy of Science, Part A*, 41/2 (2010), 158-73

'Knowledge and Certainties in the Epistemic State of Nature', *Episteme* 8 (2011), 6-23

Lectures, seminars and conferences

October 2010

'Hacking on Wittgenstein and Applied Mathematics--Critical Comments', *Hacking's The Descartes Lectures 2010*, University of Tilburg

'Hacking on Styles of Reasoning--A Critique', *Hacking's Descartes Lectures 2010*, University of Tilburg

November 2010

'Disagreement and Picture in Wittgenstein's "Lectures on Religious Belief"', Department of Philosophy, University of Dundee

'Disagreement and Picture in Wittgenstein's "Lectures on Religious Belief"', Department of Philosophy, University of Edinburgh

February 2011

'Disagreement and Picture in Wittgenstein's "Lectures on Religious Belief"', University of Cork, Department of Philosophy

'Wittgenstein and Einstein', Dublin, Irish Philosophy Club

March 2011

'Hallucinations and Microscopes: Comments on Bas van Fraassen's Recent Work on Observability', *The Theory-Ladenness of Experience*, Düsseldorf, Heinrich Heine Universität

April 2011

'Wittgenstein's Relativism', UNED, Madrid, Department of Philosophy

'Metrology and On Certainty', *On Certainty: Scepticism, Relativism and Normativity*, University of Zaragoza

May 2011

'Microscopes and the Theory-Ladenness of Experience in Bas van Fraassen's Recent Work', Institut Wiener Kreis & Forum für Analytische Philosophie, Vienna

'Genealogie, Metrologie, Historische Epistemologie', *Symposium der Gesellschaft für Wissenschaftsgeschichte: Wissenschaftsgeschichte und Wissenschaftsphilosophie*, Vienna

June 2011

'Computational Science: Non-Human or Social Epistemology', *Knowing and Understanding Through Computer Simulations*, Paris

July 2011

'Naturalised Epistemology and the Genealogy of Knowledge', *Nature versus Normativity? Joining Historical and Contemporary Perspectives on Intentionality and Knowledge*, Humboldt University, Berlin

'Ways of Seeing in Benjamin and Historical Epistemology', *14th Congress of Logic, Methodology and Philosophy of Science*, Nancy

August 2011

'A Defence of Non-Reductionism in the Epistemology of Testimony', *International Wittgenstein Symposium*, Kirchberg

September 2011

'Wittgenstein on Disagreement', *2nd Berlin Conference on Meta-Epistemology*, Tu Berlin

Sachiko Kusukawa

Publications

Articles in books

'Vesalius, the book, and the bones', in D H Westerhof (ed.) *The Alchemy of Medicine and Print* (Four Courts, 2010) 125-144

Articles in journals

'Andreas Nolthius' *Almanach* for 1575', *Journal for the History of Astronomy* 42 (2011): 91-110.

'Picturing knowledge in the early Royal Society: the examples of Richard Waller and Henry Hunt', *Notes and Records of the Royal Society* [published online: doi: 10.1098/rsnr.2010.0094]

Reviews

Review of Michael Hunter, *Boyle: Between God and Science*, in *History* 96 (2011): 110-11.

Lectures, seminars and conferences

June 2011

'The pictorial practices of the early Royal Society', *New perspectives on visibility in the history of science*, CNRS/Centre Koyré, Maison Française, Oxford.

'The arts curriculum c. 1550: evidence from booklists and books', *History of the University*, University of Cambridge

Gerald Kutcher

I was awarded a John Simon Guggenheim Fellowship, January 1, 2011 – December 31, 2011, to work on a book with the working title: *High Expectations: A History of Cancer Therapies*. The aim of this project is to discuss through a series of case studies the development of cancer therapies in the twentieth century. This history will emphasize the mutually reinforcing roles of technology, industry and government in the development of cancer treatments.

Lectures, seminars and conferences

March 2011

'Cancer Therapy with Neutrons: A Case Study of Failure,' *Program in History of Science, Technology and Medicine*, Manchester University

'Neutron Therapy for Cancer: A Study of Failure,' Clare Hall, University of Cambridge

David Leith

David Leith began a 3-year Wellcome Trust Postdoctoral Fellowship at the Faculty of Classics, Cambridge, and was appointed College Research Associate at Jesus. In Lent 2010, he co-lectured on Graeco-Roman medicine for Part II Paper 7. With Isabella Andorlini and Anastasia Maravela, he co-organized a conference on genre in ancient medicine at the University of Oslo.

Lectures, seminars and conferences

October 2010

'Genre and Purpose in the Writings of Soranus of Ephesus', *The Texts of the Medical Profession in Antiquity: Genres and Purposes*, University of Oslo

May 2011

'New Texts: the Evidence of Papyri and Medieval Manuscripts', *New Light on Ancient Medicine*, Panel Discussion, British Academy, London

August 2011

'Pliny the Elder on Asclepiades of Bithynia', *Approaches to Ancient Medicine*, University of Exeter

Geoffrey Lloyd

On 12 January 2011 Geoffrey Lloyd became the first Honorary Fellow of Tembusu College at the National University of Singapore.

On 29 June 2011 he received an Honorary D. Litt. from the University of Oxford

Publications

Book

Disciplines in the Making (revised edition) (Oxford University Press, 2011) viii+215

Articles in books

'The techniques of persuasion and the rhetoric of disorder (luan) in late Zhanguo and Western Han texts', in M.

Nylan and M. Loewe (eds.) *China's Early Empires* (Cambridge University Press, 2010), 451-460

'Epilogue', in A. Feldherr and G. Hardy (eds.) *The Oxford History of Historical Writing*, vol 1 (Oxford University Press, 2011), 601-619

'Techne and Dao: Observations on the Concepts of Art, Techniques and Methods in Ancient Greece and China', in A. Roselli and R. Velardi (eds.) *L'Insegnamento delle technai nelle culture antiche* (Pisa, 2011), 13-22

'Comparative ethics: some methodological considerations', in R.A.H. King and Dennis Schilling (eds.) *How Should One Live? Comparing Ethics in Ancient China and Greco-Roman Antiquity* (Berlin, 2011), 18-21

'The Greeks and the Chinese on the emotions and the problem of cross-cultural universals and cultural relativism', in R.A.H. King and Dennis Schilling (eds.) *How Should One Live? Comparing Ethics in Ancient China and Greco-Roman Antiquity* (Berlin, 2011), 241-258

Articles in journals

'History and Human Nature: Cross-cultural universals and cultural relativities', *Interdisciplinary Science Reviews* 35: 3-4 (2010) 201-214

'Further Thoughts', *Interdisciplinary Science Reviews* 35: 3-4 (2010) 404-405

'Multidimensional Reality', *Common Knowledge* 17:1 (2011) 27-30

Reviews

Review of R.D. Mohr and B.M. Sattler (eds.), *One Book, The Whole Universe: Plato's Timaeus today*, in *Journal of the History of Astronomy* 92:1 (2011) 117-118

Lectures, seminars and conferences

January 2010

'Humanity between Gods and Beasts? Ontologies in Question', National University of Singapore

'History in the Service of the Philosophy of Science', Nanyang Technological University, Singapore

'Humanity between Gods and Beasts? Ontologies in Question', City University, Hong Kong

February 2010

'From analogy to analogism', Sorbonne, Paris

March 2010

'The Scientificity of Ancient Medicine', *Corpus Medicorum Graecorum* lecture at the Berlin Akademie der Wissenschaften

'Aristotle on the Natural Sociability, Skills and Intelligence of Animals', Humboldt University, Berlin

June 2010

'Aristotle on the Natural Sociability, Skills and Intelligence of Animals', Politeia conference in honour of Malcolm Schofield, Cambridge

‘Innovation and Government in Ancient and in Modern Times’, Leadership and Management in a Changing World, Athens University of Economics and Business, Athens
‘Comparing Belief Systems’, Useful and Reliable Knowledge in Global Histories of Material Progress in the East and the West (URKEW), London School of Economics

July 2010

‘Innovation and Government in Ancient and in Modern Times’, China Executive Leadership Programme, Cambridge

Scott Mandelbrote

Scott Mandelbrote is a Fellow and Director of Studies in History at Peterhouse, where he is also Tutor for Undergraduate Admissions and Perne Librarian.

Publications

Books

Codrington’s Benefactions (Oxford: All Souls College, 2010)

Articles in books

‘Origen against Jerome in Early Modern Europe’, in S.-P. Bergjan and K. Pollman (eds), *The Patristic Tradition and Intellectual Paradigms in the Seventeenth Century* (Tübingen: Mohr Siebeck, 2010), 105-35.

‘The library of Peterhouse, Cambridge, and the problem of the spatial arrangement of knowledge during the sixteenth and seventeenth centuries’, in R. Felfe and K. Wagner(eds), *Museum, Bibliothek, Stadtraum. Räumliche Wissensordnungen 1600-1900* (Berlin: Lit Verlag, 2010), 23-76.

Reviews

Review of I. Avramov, M. Hunter, H. Yoshimoto, *Boyle’s Books*, in *Papers of the Bibliographical Society of America* 105 (2011), 243-4.

Review of P. Duris (ed), *Traduire la science*, in *Isis* 101 (2010), 194.

Lectures, seminars and conferences

October 2010

‘The library of Peterhouse, Cambridge’, Early Modern History Seminar, Cambridge

January 2011

‘Science and Religion in Comparative Perspective’, URKEW project seminar, London School of Economics

February 2011

‘The Authorized Version and the Pirates’, Friends of Cambridge University Library

March 2011

‘The King James Bible and the Emergence of Science’, Faraday Research Seminar, St. Edmund’s College, Cambridge

April 2011

‘Authorizing the King James Bible’, Cambridge University Anniversary Celebration for the King James Bible

May 2011

‘Printing and Publishing the King James Bible’, Friends of the John Rylands University Library, Manchester

‘What happened to the Four Senses of Scripture in Early Modern Britain’, Insular Christianities conference, Trinity College, Dublin

June 2011

‘Illustrations in Printed Bibles’, AMARC conference, Lambeth Palace Library

July 2011

‘Early Modern Depictions of the Temple’, Temple Study Day, The Temple Church, London

‘Biblical Chronology in Seventeenth-Century Britain’, King James Bible Anniversary Conference, York University

‘The King James Bible and the History of Scholarship’, King James Bible: The Scholarly Context Conference, Oxford University

Anita McConnell

During the early part of 2011 Anita was employed by the Italian National Institute of Geophysics to gather information on the locations of artefacts and documentary records relating to the British seismologist. John Milne (1850-1913).

Publications

Articles in journals

‘Prince Albert and J.Y Buchanan: Mediterranean investigations’
Newsletter of the Commission of Oceanography, No. 22, January 2011

Reviews:

A. Laughton, J. Gould, T. Tucker and H. Roe, *Of seas and ships and scientists (2010)* in *Journal for maritime research* vol 13/1, pp. 78-80.

Lectures, Seminars and Conferences

June 2011

‘Jesse Ramsden, the man who thought that big was beautiful’. Society for the History of Astronomy, Cambridge

Simon Mitton

A monograph on the history of attempts to understand how structure arises in the universe is currently with Princeton University Press and it will be published in 2012. My current interests include a collection of scientific biography for Cambridge University Press, and a biography of the cosmologist Georges Lemaître. I edited for publication by Springer (Heidelberg) an autobiographic memoir of the cosmologist and geophysicist Thomas Gold FRS (Cornell University) who died in 2004. The memoir required considerable editorial work in order to make it publishable.

Publications

Books

Fred Hoyle: A life in science (Cambridge, 2011)

Reviews

The End of Discovery: are we approaching the boundaries of the knowable? Times Higher Education 30 September 2010

Hidden Reality: Parallel Universes and the Deep Laws of the Cosmos. Times Higher Education 10 March 2011

Lectures, seminars and conferences

October 2010

Four outreach lectures on astronomy and the history of science. Queen Mary 2, Southampton – New York

November 2010

Origin of structure in the universe, (Science meets faith society, Wesley Church, Cambridge)

December 2009

Fred Hoyle: cosmology and controversy. Seminar, Cranfield University, Aerospace engineering.

July 2010

Five Books that changed our view of the Universe. Cambridge Series. Hay-on-Wye Literary Festival

James Moore

With global interest in Darwin temporarily on the wane, Jim contributed to the sage's annual February birthday celebrations in Norway only, where he was interviewed for 'Soft Science' on Studentradioen i Bergen and by *Bergens Tidende Magasinet* and for the national science blogs, *På Høyden* (http://nyheter.uib.no/?modus=vis_nyhet&id=48277) and *Forskning.no* (<http://www.forskning.no/artikler/2011/februar/279536>). Other media contributions were pre-recorded interviews for the Letters and Politics show on KPFA-FM radio, Berkeley, in August and for a Darwin documentary on Japan's NHK television in September.

Publications

Books

(with Adrian Desmond) *Darwin's Sacred Cause: Race, Slavery and the Quest for Human Origins*, first published 2009

U.K. pbk	London, Penguin Books
Kindle edn	London, Allen Lane
U.S. pbk	Chicago, University of Chicago Press

Articles in books

'Creationism' in Daniel Patte (ed) *The Cambridge Dictionary of Christianity* (Cambridge University Press, 2010), 284-85

'Darwin, Charles Robert' in Daniel Patte (ed) *The Cambridge Dictionary of Christianity* (Cambridge University Press, 2010), 305

'Evolution and Christianity' in Daniel Patte (ed) *The Cambridge Dictionary of Christianity* (Cambridge University Press, 2010), 401

Articles in journals

'Darwin Communicates with the Christian World: His Transatlantic Strategy', *Filosofia e História da Biologia* (São Paulo), 5 (2010), 309-26

'Eloge: Ralph Colp, 1924-2008', *Isis*, 101 (2010), 599-602

'Darwin and the "Sin" of Slavery', *Ethical Record* (London), April 2011, 3-15

Lectures, seminars and conferences

October 2010

Personal tribute, memorial evening in honour of Professor Richard Keynes, CBE, FRS (14 August 1919 – 12 June 2010), Churchill College, Cambridge

January 2011

Colonial Science and Its Histories Workshop (sponsored by the Wellcome Trust, the Royal Historical Society and the Institute for Historical Research), Institute for Historical Research, University of London,

February 2011

First Annual H. G. Wells Science and Society Lecture, Centre for the History of the Sciences and Centre for the History of Medicine, Ethics and Medical Humanities, School of History, University of Kent

Sunday Lecture, South Place Ethical Society, Conway Hall, London

Seminar, Darwindagen 2011, sponsored by Institutt for Biologi, University of Bergen

Public lecture, Darwindagen 2011, sponsored by Institutt for Biologi, University of Bergen

Lecture, Dorset Humanists' Darwin Day, Moordown Community Centre, Bournemouth

April 2011

Reproduction and the Sciences in Cambridge workshop, sponsored by the Wellcome Trust and the Department of History and Philosophy of Science, University of Cambridge

June 2011

After-dinner talk (with the Rt Hon. Shirley Williams, Tim Healey, Prof. June Goodfield and Lord Denis Healey),
Mid summer Event: A Tribute to Edna Healey, Alfriston & Cuckmere Valley Historical Society, Alfriston, East
Sussex

August 2011

Guest field trip, BIOL S-112 Study Abroad at Oxford: Darwin and the Origins of Evolutionary Biology (Dr Andrew
Berry), Harvard University Summer School, Cambridge, England

September 2011

Guest lecture (with Prof. Nigel Bell, Imperial College, Angela Huxley Darwin and Randal Keynes), Visit to Down
House, the Home of Charles Darwin, Master Sciences De l'Universe, Environnement, Ecologie (SDUEE) and
Departement des langues, Université Pierre et Marie Curie (Paris 6)

Joshua Nall

As part of the ongoing research for my PhD dissertation, I spent the first five months of 2011 in the United States of
America on an Arts and Humanities Research Council Library of Congress Scholarship, as a Research Fellow at the
John W. Kluge Center of the Library of Congress, Washington, D.C.

Publications

Reviews

Review of P J T Morris (Ed.), *Science for the Nation: Perspectives on the History of the Science Museum*, in
Endeavour 35 (2011), 1–2

Lectures, seminars and conferences

May 2011

'Mars canals in print: late nineteenth-century astronomers and their relationship with mass media', scholar's
presentation, John W. Kluge Center, Library of Congress, Washington, D.C.

July 2011

'The read planet: Mars, New Journalism and Richard Proctor's case for "science as a means of culture"', British
Society for the History of Science Annual Conference, University of Exeter

Alison Pearn

Associate Director, Darwin Correspondence Project. Interviewed by BBC Radio Shropshire in February 2011 in
advance of the Darwin Memorial Lecture; interviewed on behalf of Cambridge University Library on BBC Radio 4,
Material World, 23 June 2011, about the launch of "Charles Darwin's Library" a collaborative online project of the
UL, the Darwin Manuscripts Project at the American Museum of Natural History, and the Natural History Museum,
London.

Lectures, seminars and conferences

October 2010

'Darwin's Women', Wesleyan University, Connecticut, sponsored by the 'Science in Society' and 'Feminist, Gender,
and Sexuality Studies' programs

Multidisciplinary seminar at Wesleyan University, Connecticut, on using Darwin's correspondence in university
teaching

November 2010

Presentation to members of the UK Society of Biologists, on the contribution of Darwin's correspondence to the
understanding of his Darwin's scientific method (with Shelley Innes)

January 2011

'The Darwin Correspondence Project: from archive to classroom', Libraries@Cambridge conference, University of
Cambridge February 2011

February 2011

'Charles Darwin: a life in letters', Darwin Memorial Lecture, Shrewsbury

April 2011

'The Darwin Correspondence Project', Digital HPS workshop, Caltech, Pasadena

Katy Price

I'm collaborating with the Science Museum, London on a co-curation project around their *Oramics to Electronica* exhibition. My involvement consists of running creative writing workshops on the theme of sound technology and listening.

Lectures, seminars and conferences

January 2011

'Dreaming the Future: J.W. Dunne's *An Experiment with Time*'. Twentieth-century think tank, HPS, Cambridge and STS, University College London

Ruth Prince

Publications

Books

(with P.W.Geissler) *The Land is Dying: Contingency, Creativity and Conflict in Kenya* (Oxford and New York: Berghahn, 2010)

Articles in books

'Public debates about "Luo widow inheritance" in relation to Christianity, tradition and AIDS in western Kenya' In H. Englund (ed) *Christianity and Public Culture in Africa* (Athens: Ohio University Press, 2011).

(with P.W.Geissler) 'Purity is Danger: Ambiguities of touch around sickness and death in western Kenya', in U. Luig & H. Dilger (eds.) *AIDS and the Moral Order* (Oxford and New York: Berghahn, 2011).

(with P.W. Geissler) 'Persons and relations in Luo plant medicines' in E. Hsu & S. Harris (eds) *Plants, health and healing. Explorations on the interface of medical anthropology and ethnobotany* (Oxford: Berghahn, 2010).

Lectures, seminars and conferences

September 2010

'Living with ART: an ethnographic study', Centre of Disease Control and Kenya Medical Research Institute, Kisumu, Kenya

'Knowledge for Life? HIV and "empowerment" in Kenya', *Public Understanding of Science in Africa*, British Institute of East Africa, Nairobi in conjunction with Centre of African Studies, Cambridge.

'Biopolitics in East Africa', University of Århus, Denmark

November 2010

'Living on antiretroviral medicines in Kenya', *Rethinking Crises: Vulnerability, Community and State in Development Research*, Norwegian Association for Development Research (NFU) Annual Conference

February 2011

'The moral economy of HIV in an East African city', *London School of Tropical Medicine and Hygiene, Medical Anthropology seminar*

'Healthcare and Welfare in Kenya', *Cabinet of Natural History*, HPS, Cambridge

'Uncertainties around drug-resistant HIV in East Africa', *Beyond the Magic Bullet: Reframing the History of Antibiotics*, University of Oslo (Institute for Health and Society, Section for Medical Anthropology and Medical History) & University of Manchester (Centre for the History of Science, Technology and Medicine)

'Developing an Ethnography of Drug resistance: the case of HIV in East Africa', *Workshop on Histories and Ethnographies of Drug Resistance in the Global South*, HPS, Cambridge

March 2011

‘“We are HIV graduates”: knowledge, science and life in an east African city’, *Medical Diversity and its Spaces*, Max Planck Institute for Religious and Ethnic Diversity, Göttingen.

June 2011

‘Trajectories of health work in an East African city’, (Re)ordering Cities and Histories: African Urban Street-Level Workers, ECAS (European Conference on African Studies), Uppsala

Sadiah Qureshi

In September 2011, I will also be moving to take up a lectureship in modern history at the University of Birmingham. Meanwhile, my first book, which draws on my M. Phil. and Ph. D. work in the Department between 2000 and 2005, will also be published.

Publications

Books

Peoples on Parade: Exhibitions, Empire and Anthropology in Nineteenth-Century Britain (Chicago, IL, 2011)

Articles in books

‘Reading Ephemera’, in S. Towheed and R. Crone, *The History of Reading*, 3 vols (Palgrave Macmillan, 2011), 135–155

Articles in journals

‘Robert Gordon Latham, Displayed Peoples and the Natural History of Race, 1854–1866’, *Historical Journal*, 54 (2011), 143–166

Lectures, seminars and conferences

October 2010

‘Model Peoples: Race, Empire and Anthropology in International Exhibitions, 1851–1886’, *Colonial Science*, Institute of Historical Research, London

June 2011

‘Displayed Peoples and the Natural History of Race at Sydenham, 1854–1866’, *What is to become of the Crystal Palace? The Crystal Palace after 1851*, University of York

Jennifer Rampling

Jenny lectured on Part II, Papers 2 and 7, was an examiner for Part IB, and supervised two ‘alchemical’ MPhil dissertations. She started a research fellowship at Clare Hall, and was Director of Studies in HPS for King’s College and a MA external examiner for the University of Amsterdam. She was appointed deputy editor of *Ambix*, and continued to serve on the Council of the Society for the History of Alchemy and Chemistry (SHAC) and to edit the SHAC newsletter, *Chemical Intelligence*. In spring 2011 she was a visiting fellow at the University of Athens, sponsored by the Hephaestus programme. In August she became a visitor at the Department of Chemistry, where (with Hasok Chang and Peter Wothers) she tried replicating some fifteenth-century alchemical experiments. She organised a panel on ‘The Chemistry of Early Modern Medicine’ at the 80th Anglo-American Conference, and convened the second SHAC annual workshop, ‘The Material Culture of Chemistry’, at HPS. With Lauren Kassell and Peter Jones, she organised the international conference ‘Alchemy and Medicine from Antiquity to the Enlightenment’, sponsored by CRASSH. With Hasok Chang, she coordinated AD HOC, a history of chemistry reading group, and a series on ‘Historiographical Functions of Experiment’ for the History and Theory reading group. She is consulting on an exhibition of alchemical images at the Science Museum, London, and co-curating a forthcoming exhibition of alchemical material at the Museum of the History of Science, Oxford. She took a degree course in Classical Greek.

Publications

Edited books

(with D Banham and N Jardine) *Recipes for Disaster* (Cambridge: Whipple Museum, 2010)

Edited journals

John Dee and the sciences: Early modern networks of knowledge. Special issue of *Studies in History and Philosophy of Science* (2011)

Articles in books

- (with D Banham and K Eagleton) ‘Masters of incompetence: taking the MA in fifteenth-century Oxford’ in J Rampling et al (eds), *Recipes for Disaster* (Cambridge: Whipple Museum, 2010), 3–11
- ‘How not to do alchemy: George Ripley’s *Philoricium*’ in J Rampling et al (eds), *Recipes for Disaster* (Cambridge: Whipple Museum, 2010), 19–26
- ‘Překladatelská činnost alchymistů v rudolfínské Praze: případ Georga Ripleye’ (‘Alchemical translation in Rudolphine Prague: the case of George Ripley’) in I Purš and Vladimír Karpenko (eds. and trans.), *Alchymie a Rudolf II* (Prague: Artefactum, 2011), 293–296

Articles in journals

- ‘The Elizabethan mathematics of everything: John Dee’s ‘Mathematicall Praeface’ to Euclid’s *Elements*’ in *BSHM Bulletin: Journal of the British Society for the History of Mathematics*, 26 (2011), 135–146
- Introduction to J M Rampling (ed.) *John Dee and the sciences: Early modern networks of knowledge*, *Studies in History and Philosophy of Science* (2011)
- ‘John Dee and the alchemists: practising and promoting English alchemy in the Holy Roman Empire’ in J M Rampling (ed.) *John Dee and the sciences: Early modern networks of knowledge*, *Studies in History and Philosophy of Science* (2011), doi: 10.1016/j.shpsa.2011.12.009
- ‘English alchemy abroad: from imperial Prague to Leiden University’ in *Omslag: Bulletin van de Universiteitsbibliotheek Leiden en het Scaliger Instituut*, (No. 2, 2011), 1–3

Outreach

‘The alchemy of *The Alchemist*’. Programme, *The Alchemist* (ADC Theatre, Cambridge) (October 2010)

Lectures, seminars and conferences

October 2010

- ‘John Dee and the Elizabethan mathematics of everything’, British Society for the History of Mathematics Autumn Meeting, Birmingham
- ‘Dee and the alchemists’, The John Dee Society of Mortlake Autumn Meeting, Mortlake, London
- ‘Alchemy vs. chemistry’, AD HOC, HPS, Cambridge

November 2010

- ‘Alchemy and the language of reproduction’, Interdisciplinary Forum on Reproduction 6, HPS, Cambridge
- ‘Alchemy as “practical exegesis” in early-modern England’, Departmental Seminar, HPS, Cambridge

December 2010

- ‘Patronage, polemic and the place of English alchemy in early modern Europe’, *Seminaire Histoire de la chimie aux XVII^e et XVIII^e siècles*, Université de Lille 3

April 2011

- ‘Alchemy in Western Europe: historians and alchemists’, History, Philosophy and Didactics of Science and Technology seminar, University of Athens
- ‘Alchemy in Western Europe: images and practices’, History, Philosophy and Didactics of Science and Technology seminar, University of Athens
- ‘The Ripley Scrolls unrolled’, Getty Research Institute, Los Angeles

May 2011

- (with H Chang) ‘Learning chemistry from books’, AD HOC, HPS, Cambridge
- ‘Alchemy, art, and the essence of heaven’, President’s Lodge, Clare Hall, Cambridge
- ‘When Hermes met Hippocrates: medical alchemy and chemical medicine in early modern England’, *Alchemy and chemistry: continuities and fractures*, Maison Française d’Oxford and Oxford Brookes University

June 2011

- ‘Impossible experiments’, History and Theory Reading Group, HPS, Cambridge
- ‘Astronomia inferior: depicting the medieval alchemical cosmos’, *Images in comparative perspective: the use and interplay of visual forms in astronomy and allied sciences, 1450–1650*, Cambridge University Library
- ‘Definitions: medical alchemy or chemical medicine?’, *Health in History: 80th Anglo-American Conference*, Institute of Historical Research, London

July 2011

'Witnessing alchemical transmutation in early modern England', BSHS Annual Conference, Exeter

'Alchemy and nature in medieval Europe: from transmutation to the prolongation of life', *Man and Nature in the East and the West*, University of Cambridge and University of Science and Technology of China (USTC), Huangshan, China

September 2011

'The "vegetable stone" and alchemical patronage in Tudor England', *Alchemy and medicine from antiquity to the Enlightenment*, CRASSH, Cambridge

Nicky Reeves

Nicky has begun a three year position as a Post-Doctoral Researcher on the AHRC-funded project The Board of Longitude 1714–1828: science, innovation and empire in the Georgian world, a collaboration between HPS and the National Maritime Museum.

Publications

Reviews

Review of W.F.J. Mörzer Bruyns, *Sextants at Greenwich: A Catalogue of the Mariner's Quadrants, Mariner's Astrolabes, Cross-Staffs, Back Staffs, Octants, Sextants, Quintants, Reflecting Circles, and Artificial Horizons in the National Maritime Museum*, Greenwich, 2009, in *Journal for the History of Astronomy* 42(2) (2011), pp.269–271.

Review of B. Bryson (ed.), *Seeing Further: The Story of Science & The Royal Society*, 2010, in *Viewpoint: Newsletter of the British Society for the History of Science* 93 (2010) p.8.

Lectures, seminars and conferences

October 2010

21 October: *John Pringle's Copley Discourses: Practical Science and the British Navy*, a lecture in the series Science and the Maritime Nation: 350 years of the Royal Society and the Royal Navy, National Maritime Museum, Greenwich

Eleanor Robson

This year was the fourth of five for the AHRC-funded research project *The Geography of Knowledge in Assyria and Babylonia* (with Marie-Françoise Besnier, Graham Cunningham and Greta Van Buylaere). A report on our work appeared in the November 2010 issue of the university's *Research Horizons* magazine ('Reading the world's oldest libraries', <http://www.research-horizons.cam.ac.uk/features/-p-reading-the-world-s-oldest-libraries--p-1.aspx>).

In July Greta Van Buylaere and I also began work on a new project, funded by the Leverhulme Trust until December 2012, called *Assyrian-Babylonian Scholarly Literacies*. Its aim is to develop computational, socio-linguistic methods for analysing spelling habits in cuneiform, not only to answer questions in our own research on scholarly history but also to provide an online tool for all Assyriologists to use ('Assyrian and Babylonian scholarly literacy: identifying individual spelling habits' in The Leverhulme Trust's *Newsletter*, April 2011, PDF downloadable from <http://www.leverhulme.ac.uk/news/newsletter.cfm>).

Publications

Books

Edited books

(with K Radner) *The Oxford Handbook of Cuneiform Culture* (Oxford University Press, 2011)

Articles in books

'Empirical scholarship in the Neo-Assyrian court' in G Selz and K Wagensohnner (eds) *The Empirical Dimension of Ancient Near Eastern Studies* (LIT Verlag 2011), 603–630

'The production and dissemination of scholarly knowledge' in K Radner and E Robson (eds) *The Oxford Handbook of Cuneiform Culture* (Oxford University Press 2011), 557–576

Online

Additions and updates to *The Geography of Knowledge in Assyria and Babylonia, 700–200 BC*: oracc.org/gkab
(with S J Tinney, M-F Besnier, G Cunningham, and G Van Buylaere) additions and updates to *The Corpus of Ancient Mesopotamian Scholarship*: oracc.org/cams/gkab
(with K Radner) additions and updates to *Knowledge and Power in the Neo-Assyrian Empire*:
knp.prs.heacademy.ac.uk
(with S J Tinney and N Veldhuis) continued curation, development and documentation of *The Open Richly Annotated Cuneiform Corpus*: oracc.org

Reviews

Review of A Attia and G Buisson (eds), *Advances in Mesopotamian Medicine from Hammurabi to Hippocrates*, in *Medical History* 55 (2011), 251–252
Review of D Charpin, *Reading and Writing in Babylon* and M Worthington, *Complete Babylonian*, in *The Times Literary Supplement*, 22 July 2011

Lectures, seminars and conferences

November 2010

‘Knowledge networks in Assyria and Babylonia: the circulation of scholars and their writings’, Faculty of Divinity Old Testament Seminar, University of Cambridge

December 2010

‘Tracing networks of cuneiform scholarship with Oracc and Google Earth’, *Archaeologies of Text: Archaeology, Technology, Ethics*, Joukowsky Institute for Archaeology and the Ancient World, Brown University
‘Assyrian and Babylonian libraries: what were they for?’ Department of Classics, University of Reading

February 2011

‘Assyrian and Babylonian libraries: what were they for?’ Department of Archaeology, Birkbeck University of London

May 2011

‘Introducing Oracc.org: The Open Richly Annotated Cuneiform Corpus’, *Digital Editions Workshop*, CRASSH, University of Cambridge

July 2011

‘Scholarly literacies in first-millennium Assyria and Babylonia’, *57e Rencontre Assyriologique Internationale*, Università “La Sapienza”, Rome

Leon Rocha

Leon Rocha was D. Kim Foundation for the History of Science and Technology in East Asia Postdoctoral Research Fellow at the Needham Research Institute, Cambridge and the Department of History and Philosophy of Science. He was appointed Director of Studies in History and Philosophy of Science at St John’s College. He co-lectured with Eleanor Robson and Patricia Fara on Science and Gender for Part II Paper 5, and supervised for the MPhil in Multi-Disciplinary Gender Studies in Cambridge. From October 2011 onwards he will be Junior Research Fellow at Emmanuel College. He is currently co-editing with Robbie Duschinsky a volume entitled *Foucault, the Family, and Politics* (under contract with Palgrave Macmillan).

Publications

Articles in books

‘Xing: The discourse of sex and human nature in modern China’ in K Murphy and J Spear (eds) *Historicising Gender and sexuality* (Wiley-Blackwell, 2011), 77-102.

Articles in journals

‘Scientia sexualis versus ars erotica: Foucault, van Gulik, Needham’ in *Studies in History and Philosophy of Biological and Biomedical Sciences* 42 (2011), 328-343.

‘Xing: The discourse of sex and human nature in modern China’, *Gender and History* 22 (2010), 603-628

Reviews

'The great rubber robbery: How Julius Fromm's condom empire fell to the Nazis'. Review of G Aly and M Sontheimer, *Fromms: How Julius Fromm's Condom Empire Fell to the Nazis*, in *Berlin Review of Books* (January 2011): <http://berlinbooks.org/brb/2011/01/>

Lectures, seminars and conferences

October 2010

'Dao, sex, immortality: Joseph Needham on *nei dan* (internal alchemy)', *Death: A Symposium with Thomas W. Laqueur*, Centre for Research in the Arts, Social Sciences and Humanities, University of Cambridge

November 2010

'"The dark side of society": Herbert Day Lamson and the establishment of social sciences in China', *Foucault, the Family, and Politics*, Centre for Research in the Arts, Social Sciences and Humanities, University of Cambridge

March 2011

'Preface to the *Su nü jing* from Ye Dehui's *Shuang mei jing an cong shu* (1903)', *Text Reading Seminar*, Needham Research Institute, Cambridge

April 2011

'Of flying eagles and snatching condors: Wu Baiheng (1894-1974), condensed milk and national commodities in 1920s China', *Third European Congress on World and Global History*, London School of Economics

June 2011

'Preface to the *Classic of the Plain Girl (Su nü jing xu)* from Ye Dehui's *Shadow of the Double Plum Tree Collection (Shuang mei jing an cong shu, 1903)*', *Medical Texts in Translation*, Wellcome Trust Centre for the History of Medicine at UCL

Colin A. Russell

Emeritus Professor in the History of Science and Technology, the Open University.

During the last year I have undergone major surgery, so have been much less active than usual in the first term of session. During the last 6 months I have been completing a book that is due to appear before the end of 2011, and will therefore be reported next year.

Publications

Two articles, on "Isotopes" and "The Merton Thesis", for magazine *Third Way*, April 2011.

Lectures, seminars and conferences

December 2011

75th Anniversary of Society for the History of Alchemy and Chemistry, London: discussant on "The history of the history of chemistry".

March 2011

Research Seminar, University College, London, on Frankland and experimental technique.

Christine F. Salazar

With April 2011, I have become a full-time employee of Newcastle University, as Research Associate of the Wellcome-funded 'Towards a Galen in English' project headed by Prof. P. J. van der Eijk (now at the Humboldt-Universität, Berlin), which will run until the end of 2013. My current task consists in translating Galen's commentary on Hippocrates' *Prognostics*, and I may also start translating his commentary on *Epidemics I* soon. At the same time I am still continuing work on the book that is to be the result of my own project (funded by the Oesterreichische Nationalbank), *Early Byzantine Medicine – A Sourcebook*. In addition, I am supervising three dissertations on Greco-Roman medicine at the Medizinische Universität Wien (Vienna).

Publications

Reviews

Review of: Christopher Gill, Tim Whitmarsh, and John Wilkins (eds), *Galen and the World of Knowledge*, in: *Bulletin of the History of Medicine* (forthcoming).

Lectures, seminars and conferences

November 2010

Conference: 'Epidemics in Context', The Warburg Institute, London.

July 2011

Workshop for the 'Towards a Galen in English' project at the Humboldt-Universität, Berlin.

Anne Secord

Anne taught at the 12th Ischia Summer School, 'Biology and the Public', during the summer from 26 June to 3 July 2011, Villa Dohrn, Ischia (Stazione Zoologica Anton Dohrn).

Publications

Books

Articles in books

'Coming to attention: a commonwealth of observers during the Napoleonic Wars', in Lorraine Daston and Elizabeth Lunbeck (eds) *Histories of Scientific Observation* (Chicago University Press, 2011), 421-444

'Pressed into service: specimens, space, and seeing in botanical practice', in David N. Livingstone and Charles W. J. Withers (eds) *Geographies of Nineteenth-Century Science* (Chicago University Press, 2011), 283-310

Lectures, seminars and conferences

April 2011

"Cool fruits and hotbeds: the unnatural cultivation of the eighteenth-century cucumber" Evening talk at the West Wickham and District Gardening Club

Jim Secord

During 2011 Jim is serving as Acting Head of Department while John Forrester is on leave. He also continues as Director of the Darwin Correspondence Project; funding secured during this year will ensure completion of the edition in 2022. Among other projects, he is one of the co-investigators on the Generation to Reproduction project funded by the Wellcome Trust. A highly successful five-year interdisciplinary initiative funded by the Leverhulme Trust, Past versus Present in Victorian Britain, was completed at the end of this academic year.

Lectures, seminars and conferences

October 2010

'Knowledge in public transit', Conference on Co-curation', Science Museum, London

November 2010

'Nebular visions: Image and text in John Pringle Nichol and *The Architecture of the Heavens*', Centre for the History of Material Texts, Faculty of English, Cambridge

January 2011

'Darwin and Malthus', Malthus Seminar, King's College London

September 2011

'Charles Lyell's geological hammer', The Tools of Science, Whipple Museum, Alumni Weekend, Cambridge

Richard Serjeantson

Richard Serjeantson is a Fellow, Tutor, and Director of Studies at Trinity College, Cambridge; a Newton Trust Lecturer in the History Faculty of the University of Cambridge; and an Affiliated Research Scholar of the Department of History and Philosophy of Science.

Publications

Articles in books

Richard W. Serjeantson, 'The Soul', in *The Oxford Handbook of Philosophy in Early Modern Europe*, ed. by Desmond M. Clarke and Catherine Wilson (Oxford: Oxford University Press, 2011), pp. 119–41

Lectures, seminars and conferences

November 2010

'From Print to Manuscript'. Centre for Early Modern Studies, University of Sussex, 23 Nov. 2010

May 2011

'Francis Bacon and the Politics of Empire'. Conference on: Rome and Early Modern England, Jesus College, Oxford, 21–22 May 2011

'Francis Bacon and the Imagination'. Conference on: Experiential and propositional imagination: early modern perspectives, University of Helsinki, 24 May 2011

July 2011

'Reconstructing a Scribal Publishing Operation in an Age of Print'. Launch conference for *Catalogue of English Literary Manuscripts 1450–1700*. School of Advanced Study, University of London, 29 July 2011

Simon Schaffer

In 2010-11 Simon Schaffer continued as a principal investigator on the AHRC project *Board of Longitude*. In January 2011 he became chair of the Board of History and Philosophy of Science and Director of Graduate Studies. He continued as a member of the Advisory Board of the Science Museum. He broadcast for BBC Radio 4 on the life and work of Edison (December 2010) and contributed to the BBC4 television documentary *Electricity*.

Publications

Books

Trabajos de Cristal: Ensayos de Historia de la Ciencia 1650-1900 (Marcial Pons, 2011)

Articles in books

'Science', in Joad Raymond (ed.), *The Oxford History of Popular Print Culture, vol. 1: Beginnings to 1660* (Oxford University Press, 2011), 389-416

Articles in journals

'Opposition is True Friendship', *Interdisciplinary Science Reviews* 35 (2010), 277-90

'The Laird of Physics', *Nature* 471 (2011), 289-91

Lectures, seminars and conferences

October 2010

'Acting at a distance: the Venus transit expeditions and the establishment of empire', National Maritime Museum, *Royal Society Lecture Series: Expeditions and Empire*

November 2010

'Between Edinburgh and Egypt: how the Pyramids transformed Scottish astronomy', National Museum of Scotland

'The unfortunate chemist: tribulations of chemical philosophy in an age of revolution', Royal Institution

December 2010

- 'The foundation of the Cavendish Laboratory: patronage and protest in Victorian Cambridge', Society for the History of the University, Cambridge
- 'The Bombay case: colonial space and astronomical infrastructure', London Group of Historical Geographers, Institute of Historical Research

January 2011

- 'The poisoner's regress: on orientalism and natural history', Cabinet of Natural History

March 2011

- 'Soap films and the attractions of classical physics', Cambridge Philosophical Society
- 'Actions at a distance: astronomical delegates and the troubles of long range science', plenary lecture, *Scientific instructions to travellers*, Newnham College Cambridge

May 2011

- 'History of science and the media', Clare Hall Cambridge

June 2010

- 'Chemistry in Cambridge', Ad Hoc seminar, Cambridge
- 'Joseph Banks between natural history and astronomy', plenary lecture, *Exploring Empire: Joseph Banks, India and the Great Pacific Ocean*, National Maritime Museum

July 2010

- 'Disciplines and disorientation', *The future university*, CRASSH, Cambridge
- 'Economic reform and the mechanization of time', *Time! Time! Time! A conference in honour of Boyd Hilton*, Trinity College Cambridge

September 2010

- 'Easily cracked: scientific instruments in states of disrepair' and 'Natural history and the poisoner's regress', Universitat Autònoma de Barcelona

Liba Taub

Liba Taub is Director and Curator of the Whipple Museum, and Professor of History and Philosophy of Science. A Professorial Fellow of Newnham College, she is Director of Studies in HPS and Graduate Tutor. In November 2010 she delivered the Annual Invitation Lecture of the Scientific Instrument Society (London) on 'Collecting Challenges for the Future', after which she was presented with the Society's Medal. In November, the Einstein Foundation awarded her a two-year Visiting Fellowship to support her work with the Excellence Cluster TOPOI: The Formation and Transformation of Space and Knowledge in Ancient Civilizations; she formally received the award from Prof. Dr. E. Jürgen Zöllner, Senator for Education, Science and Research at a ceremony in Berlin in June. Together with Aude Doody (UCD Dublin) and Sabine Föllinger (Bamberg), she organised the Workshop on Ancient Greek and Roman Scientific, Medical and Technical Writing held at TOPOI in Berlin in March 2011. In July, she was the Invited Speaker at the Tenth Biennial History of Astronomy Workshop (ND X) at the University of Notre Dame. She is co-investigator (with Nick Jardine and Sachiko Kusukawa) on the AHRC-funded research project *Diagrams, Figures and the Transformation of Astronomy, 1450–1650* and joint Principal Investigator (with John Forrester) on the Isaac Newton Trust-funded *Scientific Heritage Project*. In March, she spoke about science and language with Lynne Truss on *Calibrated Conundrums* on BBC Radio4. Taub organised a symposium on Aristotle's Scientific Methods held at TOPOI in Berlin in September 2011. She serves on the Wissenschaftliche Beirat of the Deutsches Museum (Munich) and the UK Spoliation Advisory Panel, as well as numerous University and College committees.

Publications

Articles in books

- 'Greco-Roman Meteorology and Navigation', in *Maritime Technology in the Ancient Economy: Ship-Design and Navigation*, eds. W.V. Harris and I. Kara, *Journal of Roman Archaeology*, supplementary series no. 84, 2011, 133-146

Articles in journals

- 'Collecting Challenges for the Future', *Bulletin of the Scientific Instrument Society* 110 (2011), 5-13.

Reviews

Review of David Creese, *The Monochord in Ancient Greek Harmonic Science*, University of Cambridge, 2010. *The British Journal for the History of Science* 44 (2011), 282-283

Review of Alan C. Bowen and Christian Wildberg (eds.) *New Perspectives on Aristotle's De caelo*, Brill, Philosophia Antiqua cxvii, Leiden, 2009. *Journal for the History of Astronomy* 42 (2011), 409-411

Lectures, seminars and conferences

November 2010

'Collecting Challenges for the Future', Annual Invitation Lecture, Scientific Instrument Society, London.

December 2010

'On the forms and "genres" of Greek mathematical writing: Thinking about Mathematical Texts and Modes of Mathematical Discourse', Department of History and Philosophy of Science, University of Leeds

February 2011

'On the forms and "genres" of Greek mathematical writing: Thinking about Mathematical Texts and Modes of Mathematical Discourse', Wissenschaftshistorische Kolloquium, Goethe-Universität, Frankfurt

June 2011

'On the forms and "genres" of Greek mathematical writing: Thinking about Mathematical Texts and Modes of Mathematical Discourse', Philosophy of Science Series, Department of Philosophy, University of Vienna

July 2011

'Three Astronomers Philosophise: Ptolemy, Kepler and Rees', Invited Speaker, Public Lecture, Tenth Biennial History of Astronomy Workshop (NDX), University of Notre Dame, South Bend Indiana

'Genres of Ancient Greek Astronomy', Invited Speaker, Banquet Lecture, Tenth Biennial History of Astronomy Workshop (ND X), University of Notre Dame

Martin Underwood

Joseph Rotblat's Archive at Churchill Archives Centre is already revealing many new insights that will lead to a re-evaluation of his life and achievements. However, due to problems at the CSA, material is arriving at Churchill at a far slower rate than had been anticipated. Only a small fraction of the total amount of Rotblat's material has, as yet, been made available to Churchill Archives.

Publications

Articles in journals

'A Critical Note on Joseph Rotblat and the 15 Mev, 750 mA Linear Accelerator at St. Bartholomew's Medical College', *Medical Historian*, 21, (2009-10), 3-5

'Popularising Nuclear Energy in Post-War Europe: Joseph Rotblat and The Atom Train', *International History, Philosophy and Science Group*, 16, Dec. 2010

'Joseph Rotblat's Archive: Some Anomalies and Difficulties', *AIP History of Science*, Vol. 43, No. 1, Summer Issue, 2011)

Lectures, seminars and conferences

July 2011

'Joseph Rotblat, the Chadwicks and the development of post war nuclear physics in the UK', *British Society for The History of Science Conference, Exeter.*

Rick Welch

Rick Welch is Dean of Arts and Sciences Emeritus, Professor of Biological Sciences, and Affiliate Professor of History at the University of Maryland, Baltimore County. He is a Visiting Fellow at Clare Hall and an Affiliated Research Scholar in the Department of History and Philosophy of Science at Cambridge. He is currently engaged in a research project, funded by the Wellcome Trust, dealing with the lexical aspects of the history of physiology.

Publications

Articles in books

“‘Fuzziness’ in the cellular interactome: A historical perspective’ in P Tompa and M Fuxreiter (eds) *Fuzziness: Structural Disorder in Protein Complexes* (Landes Bioscience and Springer Science, 2011), 1-7

Articles in journals

(with Sir John Meurig Thomas) ‘Professor John Waterlow: Physiologist celebrated for his achievements in the field of childhood malnutrition’, *The Independent* 29 November 2010 [Obituary]

Lectures, seminars and conferences

July 2011

‘The interactome: A historical perspective’, *Gordon Research Conference on ‘Cellular Systems Biology’*, Davidson College, North Carolina, USA [Rick Welch was also vice-chair of this international conference.]

Paul White

Activities this year include guest editing an issue of the online journal *19: Interdisciplinary Studies in the Long Nineteenth Century* on ‘Science, literature and the Darwin legacy’ with an emphasis on methodological approaches and reflections on the Darwin anniversary year (<http://www.19.bbk.ac.uk>). With colleagues on the Darwin Project, I have contributed to web resources on the theme of Darwin and Human Nature, and have organized a conference to be held at CRASSH in April 2012 on this theme.

Publications

Articles in journals

‘Darwin wept: science and the sentimental subject’, *Journal of Victorian Culture* 16 (2011), 205-223

‘Science, literature, and the Darwin legacy’, *19: Interdisciplinary Studies in the Long Nineteenth Century* 11 (2010), 1-7

Lectures, seminars and conferences

October 2010

‘The eye observed’, *Eyetopia*, King's College London

November 2010

‘The geological sublime’, Department of History, Oxford

‘Emotions in history’, Birkbeck College

April 2011

‘The evolution of the face’, *Likeness and Facial Recognition*, UCL

May 2011

‘The conduct of belief: agnosticism, the Metaphysical Society, and the Victorian ‘crisis of faith’ re-examined’, *Evolutionary Naturalism in the Nineteenth Century*, York University, Toronto

July 2011

‘Science and literature as a vocation’, *Literary Studies and the History of Science: New Directions in ‘Science and Literature’*, University of Aberdeen

September 2011

‘Literature and science: state of the (non)field’, University of Exeter

Lydia Wilson

This year Lydia Wilson began a post-doctoral position on the Department’s Scientific Heritage project, a role involving visits to so-far over 20 University Science Departments to create a comprehensive list of heritage

holdings and to interview scientists and technicians. It has also involved building an extensive international network of over 25 institutions working on similar projects to develop policies which encourage preservation of scientific material heritage. Initial results were presented at the Universeum meeting in Padua in May, a talk which will be published next year. The summer was spent collating and analysing data preparatory to publication next year.

Lydia defended her thesis, *Ancient to Medieval Structures of Knowledge: Situating Al-Farabi's 'Enumeration of the Sciences'*, in February and corrections are being worked on in parallel with work towards publications from the thesis.

Annual leave was spent on a research trip in Northern Iraq for CUNY/ARTIS (an international NGO dedicated to conflict resolution). Lydia interviewed Turkish Kurdish and Iraqi Kurdish communities in camps and cities throughout Kurdistan, including interviews with “terrorists”, politicians, journalists, housewives, teenagers and children. The fieldwork focussed on sacred and moral values in relation to notions of nationalism and political sovereignty. A paper based on the data collected will be published later in the year. Because of this work, she has recently been invited to be part of the core international data analysis team at ARTIS.

Publications

Books

Edited books

(With B Jardine) *Cambridge Literary Review* (vol. II, no. 4, Michaelmas 2010); co-editor; curating, editing, production and distribution

(With B Jardine) *Cambridge Literary Review* (vol. II, no. 5, Summer 2011); co-editor; curating, editing, production and distribution

Reviews

Review of Miss Tully, *Letters written during a ten years' residence at the Court of Tripoli, 1783–1795* in the *Times Literary Supplement* (2011)

Review of A Ben-Zaken, *Reading Hayy Ibn-Yaqzan: A Cross-Cultural History of Autodidacticism* in the *Times Literary Supplement* (2011)

Lectures, seminars and conferences

May 2011

(With J Durant and A Harrington) Co-organised the *Collecting the Genome* workshop at History and Philosophy of Science, Cambridge

May 2011

‘Scientific heritage in Cambridge: an account of problems and solutions for the preservation of recent and contemporary science’, XII Universeum Network Meeting, Padua (to be published in the proceedings)

September 2011

‘Intangible histories and the invisible technician’, XI International Committee of ICOM for University Museums and Collections (UMAC) Annual Meeting

Caitlin Donahue Wylie

I supervised one eight-week course and one four-week course for third-year students, Sociology of Scientific Knowledge and Science Communication, and a year-long course for second-year students, History of Science. I served as the PhD Representative to the Monitoring Committee of the Department of History and Philosophy of Science. I organized and chaired a weekly seminar of invited speakers, the Cabinet of Natural History.

Publications

Articles in journals

‘Setting a standard for a ‘silent’ disease: defining osteoporosis in the 1980s and 1990s’, *Studies in History and Philosophy of Biological & Biomedical Sciences* 41 (2010), 376-385

(with M Varelas and JM Kane) ‘Young African American children’s representations of self, science, and school: making sense of difference’, *Science Education* 95 (2011), 824-851

'Teaching manuals and the blackboard: accessing historical classroom practices', *History of Education* (2011), DOI: 10.1080/0046760X.2011.584573

Online

Nature Teaching on the Blackboard: <http://whipplelib.wordpress.com/2011/02/22/nature-teaching-on-the-blackboard-by-william-plane-pycraft-and-janet-kelman-london-caxton-publishing-co-1910-donated-to-the-whipple-library-by-jim-second/> (2011)

Lectures, seminars and conferences

January 2011

'Professionalizing fossil preparators in the 20th century: how to investigate the history of an "invisible" career', British Society for the History of Science Postgraduate Conference, University of Manchester

March 2011

'Constructing fossils and fossil labs: a co-production of scientific specimens and societies', Graduate Seminar, Centre for the History of Science, Technology and Medicine, University of Manchester

July 2011

'From hammer and chisel to PaleoTools Microjack #1: a history of twentieth-century paleontological laboratory practice', British Society for the History of Science Annual Meeting, University of Exeter

John Young

This year has been largely devoted to completing the transcription and text-encoding of Simon Forman's astrological casebooks. This was finished in June 2011, Robert Ralley and I between us having transcribed, encoded and proofread a little over 10,000 handwritten entries in just over a year. I have also extensively revised and expanded the Casebooks Project's Transcription and Tagging Guidelines and contributed to the development of other project documentation.

Lectures, seminars and conferences

November 2010

'An Introduction to Isaac Newton's alchemical manuscripts', History of Science Reading Group 1 Nov. 2010 at King's College Library, Cambridge

Seminar Programmes

Michaelmas Term 2010

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 Nicky Reeves.

- 21 October **Chitra Ramalingam (Science Museum and CRASSH, Cambridge)**
How to see movement: visual experience in early nineteenth-century physics
- 28 October **Miruna Achim (Universidad Autónoma Metropolitana, Mexico City)**
From rustics to savants: the uses of indigenous *materia medica* in colonial New Spain
- 4 November **Rasmus Grønfeldt Winther (University of California, Santa Cruz, and University of Copenhagen)**
'Wir sind alle Afrikaner': abstraction and reification of 'race' in the age of genomics
- 11 November **Ellie Kingma (King's College London)**
Health and disease: beyond naturalism and normativism
- 18 November **Donald Gillies (UCL)**
Lessons from the history and philosophy of science for research assessment systems
- 25 November **Jennifer Rampling (HPS, Cambridge)**
Alchemy as 'practical exegesis' in early-modern England

Abstracts

- 21 October **Chitra Ramalingam (Science Museum and CRASSH, Cambridge)**
How to see movement: visual experience in early nineteenth-century physics

It is well known that there was widespread interest in human vision, optical illusions and optical toys in the early nineteenth century. One optical phenomenon that attracted attention from European scientists, intellectuals and publics alike was 'visual persistence', which would eventually come to be understood as the basis for the illusion of motion perceived in cinema. The earliest systematic investigation of this illusion was carried out by two individuals most commonly associated with the history of physics: the London experimental philosophers Charles Wheatstone and Michael Faraday. In this paper I explore why this pair placed the study of human visual experience and its limitations at the centre of their experimental activities in acoustics and electricity in the 1820s and 1830s. A rigorous exploration of the operation of human vision, put to use in lecture performance techniques and exquisitely engineered optical instruments, could turn private ocular experiences of transient movements (like sound vibrations or electric sparks) into authoritative, publicly accessible visual facts about the lawlike regularity of nature. The early physics laboratory and lecture hall are found to be important sites where provocative theses about nineteenth-century 'ways of seeing' – such as that of the influential art historian Jonathan Crary – can be tested.

28 October **Miruna Achim (Universidad Autónoma Metropolitana, Mexico City)**

From rustics to savants: the uses of indigenous *materia medica* in colonial New Spain

This talk explores the ways indigenous knowledge about plant and animal remedies was gathered, classified, ‘translated’, tested and circulated across wide networks of exchange for natural knowledge between Europe and the Americas. There has been much recent interest in the ‘bioprospecting’ of local natural resources – medical and otherwise – by Europeans in the early modern world. However, some opacity continues to surround the description of how knowledge travelled. While the strategies employed by European travellers, missionaries or naturalists have been well documented, there has been less written on the role played by indigenous and creole intermediaries in this process. And yet, the transmission of knowledge between indigenous communities and the European cabinet was neither transparent nor natural, and often involved epistemological, linguistic and religious obstacles. Drawing on a number of printed and manuscript sources, collections of indigenous remedies, written in places as diverse as Guatemala, the Yucatán, Chiapas and Mexico City, in the sixteenth through the eighteenth centuries, I am interested in exploring how local intermediaries, like creoles scholars, sought to overcome such obstacles by observing indigenous uses of remedies, by studying indigenous languages and by producing natural histories and pharmacopeias in indigenous languages (Nahuatl and Maya Quiché, for instance). Ultimately, behind the creole participation in the transmission of indigenous remedies, one can point to more inclusive definitions of knowledge, which cut across oppositions between science and superstition, cabinet and field, centre and periphery.

4 November **Rasmus Grønfeldt Winther (University of California, Santa Cruz, and University of Copenhagen)**

‘Wir sind alle Afrikaner’: abstraction and reification of ‘race’ in the age of genomics

Race is a notoriously contentious political, ideological, and sociological concept. By definition, a racial proper name (e.g. ‘African’, ‘Han Chinese’) is meant to refer to, and identify, a coherent human group (at various levels). But are there really such natural, biological groups, or are they solely cultural constructs? That is, are phenotypic ‘racial’ differences in hair texture, skin colour or various morphological characters (external traits) actually grounded in genetic or other biological differences (internal traits)? And if so, how broad are such basic, reductive biological differences? Do they also explain group-level differences in proneness to certain diseases or even IQ(!), that seem to robustly exist across human groups? Since biology clearly has ideological and social consequences, much is at stake in scientific attempts to assess the naturalness of ‘race’. In this talk, I critically examine the abstraction of human groups (and ‘races’) through the use of contemporary data-driven (e.g. SNPs, haplotypes and microsatellites) modelling strategies (e.g. STRUCTURE computer program, phylogenetic inferences). I employ my philosophical framework of the reification of scientific abstractions. I argue that the real yet partial population structure of humans across the globe, as well as the various empirically-adequate models of human evolution, do not justify a reification of the race concept. The concept does not have strong biological support, and I suggest that scientific honesty demands that we abandon it. (Even then, we could still search for genes and developmental processes underlying diseases, as well as try to reconstruct the evolutionary history of genetically diverse human groups.) Indeed, as indicated in an ongoing exhibition on human evolution at the Neues Museum in Berlin, we are all Africans.

11 November **Ellie Kingma (King’s College London)**

Health and disease: beyond naturalism and normativism

What is health? What is disease? Thirty years of philosophical debate has failed to answer these questions. Instead the literature has revolved around one single question: are the concepts of health and disease value-free? Naturalists ardently argue in favour, whilst normativists equally vehemently oppose. Neither of these approaches has succeeded, however; naturalists fail to make good on their promise of providing a fully naturalistic account of disease – and even if they were able to provide this, the disease concept they discuss is a pure theoretical one, and not applicable to either practice, ethics or policy. Normativists, on the other hand, fail to unpack the claim that health and disease are value-laden, and offer analyses that beg the question with respect to applications in policy, ethics and practice. It is time for a different approach. Rather than debating value-free or value-laden definitions we should consider how the concepts of health and disease came to be what they are. In this process both values and biological descriptions play an interactive role. The creative synthesis of naturalism and normativism I thus offer moves beyond the traditional stalemate, and has profound implications for bioethicist.

18 November **Donald Gillies (UCL)**
Lessons from the history and philosophy of science for research assessment systems

The thesis of this paper is that material from the history and philosophy of science is highly relevant to the question of the efficacy of research assessment systems such as the RAE or REF. Systems of this kind are based on peer review or metrics. However, the study of historical examples such as Frege, Semmelweis and Copernicus shows that both peer review and metrics have important defects and can lead to the rejection of innovative research. This phenomenon is explained using ideas of Kuhn and Lakatos. The conclusion drawn is that systems such as the RAE or REF are likely to make research output worse rather than better, and an alternative approach to research organisation is suggested.

25 November **Jennifer Rampling (HPS, Cambridge)**
Alchemy as 'practical exegesis' in early-modern England

Alchemy had many goals, from the transmutation of metals to the creation of the 'vegetable stone': a powerful medicinal elixir capable of healing bodies, restoring youth, and prolonging life. In the late fifteenth century, English practitioners began to describe a mysterious substance, 'sericon', used in the manufacture of the vegetable stone. Yet the nature of sericon was not fixed. Both its identity and the alchemical practice it represented underwent radical reinterpretation between the fifteenth and seventeenth centuries, as the original process was eclipsed by new methods and materials, notably those popularised by George Starkey (1628–1665). The rise and fall of 'sericonian' alchemy provides a case study for examining one challenge facing modern scholars: the difficulty of isolating and charting changes in alchemical ideas, practices and nomenclature without succumbing to anachronism. I shall argue that early modern practitioners faced similar interpretative difficulties when decoding their authorities, which they tried to solve by refashioning their medieval sources in light of both textual exegesis and practical experience.

Research Topics and Resources Seminars

Seminars on research topics and resources in history and philosophy of the sciences and medicine, **for all new graduate students**, are held in the first two weeks of term, on **Thursdays at 4pm in Seminar Room 2**. Tea is available from 3.45pm in Seminar Room 1. All welcome.

Each seminar will consist of short informal talks presenting research methodologies and areas. The seminars are complemented by an online guide at www.hps.cam.ac.uk/research.

Organised by Tim Lewens and Eleanor Robson.

7 October **Matthew Lane**: Research training offered by the School of Humanities and Social Sciences

Nick Whitfield: Archives

Jenny Bangham: Researching the history of twentieth-century biology

Billy Wheeler: Non-standard resources for philosophy of science

14 October **Nick Jardine**: Introduction to research resources in HPS

Patricia Fara: Scientific images

Josh Nall: Researching in the Whipple Museum

John Forrester: Crucial trivia

Twentieth Century Think Tank

The Think Tank offers broad coverage of 20th-century and contemporary topics in the history and philosophy of science. We alternate sessions between seminar talks presented by invited speakers and reading groups led by members of the Department. Copies of the texts for the reading group sessions can be found in the TCTT box in the Whipple Library.

Our slot alternates with the Twentieth-Century Biology Reading Group (see page 14), with **meetings**

every other Tuesday, 1–2pm in Seminar Room 1. Everyone is welcome, and feel free to bring lunch!

For more information email hps-think-tank@lists.cam.ac.uk

- 19 October Seminar: **Joel Isaac (Queen Mary, University of London)**
Beyond epistemology: rethinking the relationship between philosophy and the human sciences in the twentieth century
- 2 November Reading group: **Jenny Bangham (HPS, Cambridge)**
Talking about biological and social kinds
Readings:
Ian Hacking, 'Genetics, biosocial groups and the future of identity', *Daedalus*, 135 (2006), 81–95.
Paul Rabinow, 'Artificiality and Enlightenment: from Sociobiology to Biosociality', in: Jonathan Crary and Sanford Kwinter (eds.), *Incorporations* (New York: Zone Books, 1992); reprinted in: Paul Rabinow, *Essays on the Anthropology of Reason* (Princeton NJ: Princeton University Press, 1996), 91–111; and in: Mario Biagioli (ed.), *The Science Studies Reader* (Routledge, New York and London, 1999): 407–416.
Ian Hacking, 'Degeneracy, Criminal Behaviour, and Looping', in: David Wasserman and Robert Wachbroit (eds.), *Genetics and Criminal Behaviour* (Cambridge: Cambridge University Press, 2001), 141–167.
- 16 November Seminar: **Malcolm Thompson (University of British Columbia)**
The virtual object of public health, or: the problem of 'life' in China, 1911–1937
- 30 November Reading group: **Boris Jardine (HPS, Cambridge)**
Theories of science between the wars
Readings:
Hans-Jörg Rheinberger, *On Historicizing Epistemology: An Essay* (Stanford: Stanford University Press, 2010), Chapters 2 and 3, 19–50.
John O'Neill & Thomas Uebel, 'Horkheimer and Neurath: Restarting a Disrupted Debate', *European Journal of Philosophy*, 12, No. 1 (2004), 75–105.
David Kaiser, 'A Mannheim for All Seasons: Bloor, Merton, and the Roots of the Sociology of Scientific Knowledge', *Science in Context*, 11, No. 1 (1998), 51–87

History of Medicine

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 Lauren Kassell.

- 12 October **Sujit Sivasundaram (Faculty of History, Cambridge)**
Diseased on an Indian Ocean island: medicine, stishness and colonialism
- 19 October **Hilary Powell (HPS, Cambridge)**
The 'miracle of childbirth': the portrayal of parturient women in medieval miracle narratives
- 26 October **Tim McHugh (Oxford Brookes University)**
Catholic activists, medical authority and the limiting of peasant choice in rural Brittany, 1650–1750
- 9 November **Nick Whitfield (HPS, Cambridge)**
'A cold-blooded business'? Making the modern blood donor in wartime London

From Generation to Reproduction

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!

16 November **Sarah Toulalan (University of Exeter)**
Diagnosing child sexual abuse in early modern England

23 November **Florence Vienne (Technical University, Braunschweig)**
Spermatid animalcules and concepts of life around 1800

Cabinet of Natural History

Seminars are held on **Mondays at 1pm in Seminar Room 1**. You are welcome to bring your lunch with you. Organised by Caitlin Wylie.

11 October **Carl Fisher (HPS, Cambridge)**
Some aspects of early Darwinian commemoration

18 October **Sophie Brockmann (HPS, Cambridge)**
Maya ruins, volcanoes and the colonial state in 18th-century Central America

25 October Fungus Hunt

1 November **Alexander Wragge-Morley (HPS, Cambridge)**
Politeness and the ethical force of natural history

8 November **Gowan Dawson (University of Leicester)**
Victorian palaeontology and serial publication

15 November **Francis Neary (HPS, Cambridge)**
The human automatism debate in the late 19th century

22 November **Hilary Powell (HPS, Cambridge)**
The making of the medieval English therapeutic landscape

29 November **Nils Guettler (Humboldt University and the Max Planck Institute for the History of Science, Berlin)**
Mutable mobiles: the circulation of botanical maps between Humboldtian Germany and Victorian Britain

HPS History Workshop

The HPS History Workshop is a seminar group devoted to peer discussion of work in progress in all areas of the history of science, medicine and technology. All HPS postgraduate students with an interest in history are welcome to present draft MPhil essays, PhD chapters, conference papers, etc. The workshop encourages friendly and constructive feedback while providing a fortnightly point of contact for

postgraduate historians at HPS.

Sessions will be held on alternate **Wednesdays in Seminar Room 1, 1pm–2pm.**

Organised by Sophie Brockmann.

13 October **Alexander Wragge-Morley (HPS, Cambridge)**

Representational practices and the ethics of natural history, 1650–1720

27 October **Christian Strother (Faculty of History, Cambridge)**

From unhealthy lands to foyers of endemicity: malaria's place in the medical geography of French West Africa, ca.1880–1920

10 November **Anne Katrine Kleberg Hansen (University of Copenhagen)**

Concepts and perceptions of body size within western medicine in the eighteenth and nineteenth centuries

24 November **Sophie Waring (HPS, Cambridge)**

The Board of Longitude and the amateur: an investigation into the public culture of science and expertise, 1780–1820

Philosophy Workshop

The HPS Philosophy Workshop is a fortnightly seminar devoted to the discussion of on-going work by researchers in philosophy. Papers are invited from all graduate students and post-docs: it is a great format for getting some constructive and informal feedback on an essay, PhD chapter or potential article. Papers are circulated by email one week in advance of each meeting – the author will then give a brief synopsis on the day followed by roughly 45 minutes of Q&A.

Meetings take place **every other Wednesday from 1–2pm in Seminar Room 1.** The meeting dates are as follows:

20 October

3 November

17 November

1 December

If you would like to present, or have any questions, please contact Sacha Golob.

AD HOC

AD HOC is a history of chemistry reading group based in Cambridge and London. While our main focus is historical, we also consider the philosophical, sociological, public and educational dimensions of chemistry. This term's theme is 'Between Alchemy and Chemistry'.

The group meets four times per term, on **Wednesdays, 5pm–6.30pm in Seminar Room 1.** Readings are available from the Whipple Library, and also circulated via our mailing list. A parallel series of meetings is held in London, and travel bursaries are available for students interested in attending both. For details visit our website, www.hps.cam.ac.uk/adhoc.

Organised by Hasok Chang and Jenny Rampling.

20 October 'Alchemy vs. chemistry'

Introduced by **Jennifer Rampling (HPS, Cambridge)**

Readings:

1. William R. Newman & Lawrence Principe, 'Alchemy vs. chemistry. The etymological origins of a historiographic mistake', *Early Science and Medicine* 3:1 (1998): 32–65.

2. J. R. R. Christie and J. V. Golinski, 'The Spreading of the Word: New Directions in the Historiography of Chemistry 1600–1800', *History of Science*, 20:4 (1982): 235–266.

- 27 October 'Alchemy from the perspective of later chemistry'
Introduced by **Hasok Chang (HPS, Cambridge)**
Readings:
1. Justus von Liebig, *Familiar Letters on Chemistry*, 3rd ed. (London, 1851): Letters III (main reading) and IV (recommended).
2. 'Alchemy'. Entry in the 1911 *Encyclopedia Britannica*, vol. V01, p. 520.
3. To be confirmed.
- 10 November 'Alchemy's place in the history of science and medicine'
Introduced by **Rob Ralley (HPS, Cambridge)**
Readings:
1. Lauren Kassell, 'Secrets Revealed: Alchemical Books in Early-Modern England', forthcoming in *History of Science*.
2. Bruce T. Moran, *The Alchemical World of the German Court: Occult Philosophy and Chemical Medicine in the Circle of Moritz of Hessen (1572–1632)* (Stuttgart, 1991), chapter 4 (pp. 50–67).
- 1 December 'Newton's alchemy'
Introduced by **Peter Jones (King's College, Cambridge)** and **John Young (HPS, Cambridge)**
Hands-on session at King's College Library, examining some of Isaac Newton's alchemical manuscripts. Meet at 5pm in the Library Reading Room.
Background reading:
1. Betty-Jo Teeter Dobbs, *The Janus Faces of Genius: The Role of Alchemy in Newton's Thought* (Cambridge: CUP, 1991), chapters 1 and 2 (pp. 1–52).
2. Browse 'The Chymistry of Isaac Newton' website: www.chymistry.org (particularly the Introduction to Newton's short tract *On nature's obvious laws*, at <http://webapp1.dlib.indiana.edu/newton/mss/intro/ALCH00081>)

Philosophy of Science Reading Group

We will be reading from Stephen H. Kellert, Helen E. Longino and C. Kenneth Waters (eds.), *Scientific Pluralism* (University of Minnesota Press, 2006). Three copies of the book are on reserve in the Whipple Library. Meetings will involve a short presentation by a member of the group followed by a general discussion.

Meetings will take place on **Thursdays at 2pm in Seminar Room 1** and are open to all. Organised by Hasok Chang and Jonathan Birch.

- 7 October Stephen H. Kellert, Helen E. Longino and C. Kenneth Waters, 'The Pluralist Stance'
- 14 October Alan W. Richardson, 'The Many Unities of Science: Politics, Semantics, and Ontology'
- 21 October Ronald N. Giere, 'Perspectival Pluralism'
- 28 October Michael Dickson, 'Plurality and Complementarity in Quantum Dynamics'
- 4 November Helen E. Longino, 'Theoretical Pluralism and the Scientific Study of Behaviour'

- 11 November C. Wade Savage, 'A New/Old (Pluralist) Resolution of the Mind-Body Problem'
 18 November Carla Fehr, 'Explanations of the Evolution of Sex: A Plurality of Local Mechanisms'
 25 November C. Kenneth Waters, 'A Pluralist Interpretation of Gene-Centred Biology'

Kant Reading Group

Metaphysical Foundations of Natural Science Metaphysische Anfangsgründe der Naturwissenschaft

'Nature taken in this sense of the word has two main parts, corresponding to the main line through our senses: one part contains the objects of the external senses. Any theory about that will be a doctrine of body, dealing with extended Nature. The other part contains the object of the internal sense. Any theory about it will be a doctrine of soul, dealing with thinking Nature.' (Metaphysical Foundations, AA VI:467)

This term the Kant Reading Group will read the Metaphysical Foundations of Natural Science. Meetings are held in the **HPS Lodge from 3.30–5.00pm on Tuesdays**. They begin with a short presentation and are followed by general discussion. All are most welcome. We will fix our schedule of presenters in the first meeting, though please feel free to contact Katharina Kraus if you would like to sign up in advance for a particular slot, or if you have any questions.

- 12 October Introduction and Preface (AA VI:467 – VI:479)
 19 October Phoronomy: Part I: AA VI:480 – VI:487
 26 October Phoronomy: Part II: AA VI:487 – VI:495
 2 November Dynamics: Part I: AA VI:496 – VI:503
 9 November Dynamics: Part II: AA VI:503 – VI:508
 16 November Dynamics: Part III: AA VI:508 – VI:515
 23 November Dynamics: Part IV: AA VI:516 – VI:523
 30 November Dynamics: Part V: AA VI:523 – VI:535

Science and Literature Reading Group

Meteorology and Climate Change

We meet on **Mondays from 7.30 to 9pm in the Skillicorn and Bamford Rooms at Homerton College**. Many of the selections we have chosen are available online. Copies of the harder-to-obtain items will be placed in our box file in the Whipple Library.

Organised by Daniel Friesner (Science Museum) and Melanie Keene (Homerton College). See our blog at <http://sci-lit-reading-group.blogspot.com/> for news and updates; email Melanie to join our dedicated mailing list. *All welcome!*

- 18 October Extreme events
 Daniel Defoe, *The Storm* (1704), especially Chapter III, 'Of the Storm in General', pp. 26–36 in the Penguin Classics edition. To find this chapter online, search for the phrase 'before we come to examine the damage' on Google Books.

1 November Johann Wolfgang von Goethe, poems in honour of Luke Howard (1820–22). Translated in Kurt Badt, *John Constable's Clouds*, trans. Stanley Godman (London: Routledge and Kegan Paul, 1950), pp. 12–14. To find this online, search for the phrase 'walks and flickers' on Google Books.

John Ruskin, *The Storm Cloud of the Nineteenth Century: two lectures delivered at the London Institution* (1884). Lecture 1, 4th February, especially the beginning and end of the lecture, pp. 1–8 and 29–44 on Internet Archive; pp. 1–6 and 20–30 on Project Gutenberg.

15 November Weather control (in the Skillicorn Room)

Eliza Leslie, 'The Rain King; or, A Glance at the Next Century'. *Godey's Lady's Book*, Vol. 25, July 1842, pp. 7–11. To find this online, search for the phrase 'so many new stars had been added' on Google Books.

Carl Barks, 'The Master Rainmaker'. *Walt Disney's Comics & Stories* #156 (Vol. 13, No. 12, September 1953). Reprinted in *Walt Disney's Donald Duck*, No. 284 (Series II), May 1994. Also reprinted (in black and white) in *The Journal of Weather Modification*, Vol. 23, No. 1, April 1991, pp. 90–100.

Daniil Granin, *Idu na grozu* (1961). Translated as *Into The Storm* (Moscow: Progress Publishers, 1965) pp. 33–39, 182–187, 197–203, 239–249, 254–257, 307–309.

29 November Cooling down and warming up (in the Skillicorn Room)

Arthur C. Clarke, 'The Forgotten Enemy'. *King's College Review*, December 1948, pp. 20–24. Reprinted in various collections, including *SF: Author's Choice 4* and *The Collected Stories of Arthur C. Clarke*.

J. G. Ballard, 'The Drowned World'. *Science Fiction Adventures*, #24 (Vol. 4, January 1962), pp. 2–56, especially pp. 2–25 and 55–56. (This is the original novella, which was afterwards expanded into a novel.)

History and Theory Reading Group

The group will discuss articles (their own, and those of others) relating to problems of historical research, interpretation, explanation and narration. Articles will be placed well in advance in a History and Theory box in the Whipple. Suggested additional readings are listed at www.hps.cam.ac.uk/seminars/theory.html

We meet on **Fridays, 2.30pm to 4pm in Seminar Room 1**. Organised by Jenny Bangham and Katharina Kraus.

15 October **Jesse Olszynko-Gryn (HPS, Cambridge)**

Laboratory histories: what does it mean to be ethnographic thirty years on?

Robert E. Kohler (2008), 'Lab History. Reflections' *Isis* 99: 761–768.

'Postscript to Second Edition (1986)', 273–290 in Bruno Latour and Steve Woolgar, *Laboratory Life: The Construction of Scientific Facts* (1979; new ed., Princeton, N.J.: Princeton Univ. Press, 1986).

29 October **Rowan Boyson (King's College, Cambridge)**

Description and sensuousness

Cynthia Sundberg Wall, 'A History of Description, a Foundling', in *The Prose of Things: Transformations of Description in the Eighteenth Century* (Chicago: University of Chicago Press, 2006).

Alain Corbin, 'Charting the Cultural History of the Senses', in *Empire of the Senses: The Sensual Culture Reader*, ed. by David Howes (Basingstoke: Berg, 2004).

Michel Serres, 'Tables' in *The Five Senses: A Philosophy of Mingled Bodies*, trans. by Peter Cowley and Margaret Sankey (London: Continuum, 2009).

12 November **Hasok Chang (HPS, Cambridge)**

A new look at Whiggism

Chang, Hasok (2009) 'We Have Never Been Whiggish (About Phlogiston)' *Centaurus*, 51: 239–264.

Forman, Paul. (1991) 'Independence, Not Transcendence, for the Historian of Science' *Isis* 82: 71–86.

26 November **Leon Rocha (HPS and Needham Research Institute, Cambridge)**

Global histories of science

Sivasundaram, Sujit (2010) 'Introduction' *Isis*, 101: 95.

Elshakry, Marwa (2010) 'When Science Became Western: Historiographical Reflections' *Isis*, 101: 98.

Tilley, Helen (2010) 'Global Histories, Vernacular Science, and African Genealogies; or, Is the History of Science Ready for the World?' *Isis*, 101: 110.

Sivasundaram, Sujit (2010) 'Sciences and the Global: On Methods, Questions, and Theory' *Isis*, 101: 146.

Evolution Reading Group

This term the Evolution Reading Group will take as its theme 'Observing Evolution', in order to examine how the process (whose scale and duration places itself beyond the limits of direct human observation) was observed by those seeking evidence of natural selection's role in the divergence and development of life's 'endless forms'. The readings for this term are taken from works of natural history written in the last decades of the 19th century. Each week will also feature a corresponding secondary source. Please find all readings in our box in the Whipple Library.

We meet on **alternate Thursdays at 1pm in Seminar Room 1**. For more information, please contact Katie Zimmerman.

14 October Selected readings from Walter Henry Bates, *In the Heart of the Amazon Forest* (1863) and George Woodcock, *Henry Walter Bates: Naturalist of the Amazons* (1969).

28 October Selections from George Romanes, *Animal Intelligence* (1882) and Gillian Beer, 'Darwin and the consciousness of others' in *Darwin's Plots*, 3rd ed. (2009).

11 November Selections from Fritz Müller, *Facts and Arguments for Darwin* (1869) and readings from the correspondence between Müller and Darwin via Darwin Correspondence Project.

25 November Selections from Grant Allen, TBA, and 'Darwin's Plants', Chapter 4 in Jonathan Smith's *Charles Darwin and Victorian Visual Culture* (2006).

Philosophy of Biology Reading Group

The Philosophy of Biology Reading Group meets **weekly on Fridays from 2–3pm in the HPS Lodge Seminar Room**.

In Michaelmas Term we will be reading sections from the volume *Contemporary Debates in Philosophy*

of *Biology* (Wiley-Blackwell, 2009). The book is highly modular, composed of ten sections consisting of two short articles that address a certain philosophical question. We will be reading one section each week.

Everyone is welcome, and undergraduates and MPhils are especially encouraged to join. No prior knowledge of philosophy of biology is required.

Organised by Joeri Witteveen.

- 8 October Part I: Is it possible to reduce biological explanations to explanations in Chemistry and/or Physics? [articles by Keller and Dupré]
- 15 October Part II: Have traits evolved to function the way they do because of past advantage? [articles by Perlman and Cummins]
- 22 October Part III: Are species real? [articles by Claridge and Mishler]
- 29 October Part V: Are microevolution and macroevolution governed by the same processes? [articles by Dietrich and Erwin]
- 5 November Part VI: Does evolutionary developmental biology offer a significant challenge to the neo-Darwinian paradigm? [articles by Laubichler and Minelli]
- 12 November Part VII: Were the basic components of the human mind solidified during the Pleistocene epoch? [articles by Starratt and Downes]
- 19 November Part VIII: Does memetics provide a useful way of understanding cultural evolution? [articles by Blackmore and Wimsatt]
- 26 November Part IX: Can the biological sciences act as a ground for ethics? [articles by Ruse and Ayala]

Medieval Medicine Discussion Group

This discussion group caters for all scholars with an interest in the field of medieval medicine. It is intended to be an informal gathering to discuss work in progress. All are welcome to attend and partake in our discussions.

Meetings will be held on **alternate Mondays, 2.30–4pm** in the Old Library section of the Whipple Library. Coffee and tea will be available. Organised by Hilary Powell.

- 25 October **Conan Doyle (ASNC, Cambridge)**
The vernacular fortunes of the Pseudo-Galenic *Liber tertius* in Anglo-Saxon England
- 22 November **Peter Jones (King's College, Cambridge)**
Images in medicine, medicine in images
- 6 December **William MacLehose (UCL)**
Sleep and rationality in medieval medicine

Twentieth Century Biology Reading Group

The group will discuss papers relating to the history, philosophy and historiography of twentieth-century

biology. Articles will be placed well in advance in a box in the Whipple Library. Meetings are **every other Tuesday from 1–2pm in Seminar Room 1**, alternating with the Twentieth Century Think Tank.

Organised by Jenny Bangham.

- 12 October **Ruth Horry (HPS, Cambridge)**
Uses of medical history by the medical profession
Cantor, David (ed.) (2002) *Reinventing Hippocrates* (Aldershot: Ashgate). Introduction and Chapter 11: Lederer, Susan E. ‘Hippocrates American style: representing professional morality in early twentieth-century America’.
Huisman, Frank and Warner, John Harley (eds.) (2004) *Locating Medical History: the Stories and their Meanings* (Baltimore; London: The Johns Hopkins University Press). Chapters 1 and 7.
Schlich, Thomas (1995) ‘How Gods and Saints Became Transplant Surgeons: the Scientific Article as a Model for the Writing of History’. In *History of Science* 33: 311–331.
- 26 October **Salim Al-Gailani (HPS, Cambridge)**
Genetics and atomic science
Campos, Luis and von Schwerin, Alexander (eds.) (2010) ‘Making Mutations: Objects, Practices, Contexts’ (*Max Planck Institute for the History of Science Preprint* 393). Introduction and Soraya de Chadarevian’s *Mutations in the Nuclear Age*, p. 179.
Beatty, John (1991) ‘Genetics in the atomic age: the Atomic Bomb Causality Commission, 1946–1956’. In K. B. Benson, J. Maienschein and R. Rainger (eds), *The Expansion of American Biology* (New Brunswick: Rutgers University Press) pp. 284–324.
Lindee, Susan (1994) *Suffering Made Real: American Science and the Survivors of Hiroshima* (Chicago University Press) (Selected chapters to be confirmed.)
- 9 November **Dmitriy Myelnikov (HPS, Cambridge)**
Model organisms and medical genetics
Lynch, M. E. (1988) ‘Sacrifice and the Transformation of the Animal Body into a Scientific Object: Laboratory Culture and Ritual Practice in the Neurosciences’. *Social Studies of Science*, 18: 265–289.
Rader, K. A. (1998) ‘“The Mouse People”: Murine Genetics Work at the Bussey Institution, 1909–1936’. *Journal of the History of Biology*, 31: 327–354.
Haraway, Donna (2007) *When Species Meet* (University of Minnesota Press, 2007). Chapter 3: ‘Shared Suffering: Instrumental Relations between Laboratory Animals and their People’, pp. 69–94.
- 23 November **Jenny Bangham (HPS, Cambridge)**
Cell culture
Skloot, Rebecca (2009) *The Immortal Life of Henrietta Lacks* (Crown, New York). Prologue and Part Three: Immortality.
Landecker, Hannah (2007) *Culturing Life: How Cells Became Technologies* (Harvard University Press). Chapter 4: HELA, pp. 140–179.

Generation to Reproduction Reading Group

This group discusses pre-circulated papers, classics as well as our own work, in the area of our Wellcome Trust strategic award in the history of medicine (www.reproduction.group.cam.ac.uk).

This term's meetings will be at **5–7pm on Tuesdays 2 November and 30 November in Seminar Room 1**. To join the group, please email generate@hermes.cam.ac.uk.

Latin Therapy

Latin Therapy will meet on **Fridays in the HPS Lodge from 4–5.30pm**. For this term, the first meeting will take place on 15 October and the last on 26 November, with a surprise fieldtrip on 3 December. All levels are welcome and beginners are strongly encouraged to come along. Each week we will cover some introductory grammar, followed by a text suggested by members. The pain of the ablative absolute will be salved with copious tea and biscuits!

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 Susannah Gibson.

Lent Term 2011

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 Nicky Reeves.

- 20 January **Sixth Cambridge Wellcome Lecture in the History of Medicine**
Mary Fissell (Johns Hopkins University)
Encountering *Aristotle's Masterpiece*, or how to find a racy book about reproduction
- 27 January **Simone Turchetti (University of Manchester)**
'In God we trust, all others we monitor': seismology and international affairs during the Cold War
- 3 February **Helen Beebee (University of Birmingham)**
How to carve nature across the joints without abandoning Kripke-Putnam semantics
- 10 February **Jimena Canales (Harvard University)**
A history of a tenth of a second
- 17 February **James Ladyman (University of Bristol)**
How much pluralism?
- 24 February **Fiona Clark (Queen's University Belfast)**
Autoptēs: anti-venereal trials and the deconstruction of credibility, Mexico City (1790–92)
- 3 March **Elma Brenner (HPS, Cambridge)**
Leprosy and identity in medieval Rouen
- 10 March **Joel Isaac (Queen Mary, University of London/CRASSH, Cambridge)**
Kuhn's education: Wittgenstein, pedagogy, and the road to structure

Abstracts

- 20 January **Sixth Cambridge Wellcome Lecture in the History of Medicine**
Mary Fissell (Johns Hopkins University)
Encountering *Aristotle's Masterpiece*, or how to find a racy book about reproduction

Aristotle's Masterpiece was the most popular English book about reproduction from its first publication in 1684 all the way into the 1930s. It is not by Aristotle, nor a masterpiece, but affords the historian an unusual glimpse into plebeian sexuality and reading habits. While much of the content is typical of a late 17th century midwifery guide, its extremely long life makes it unique.

The lecture explores the many physical spaces in which readers encountered and bought the *Masterpiece* in an attempt to understand its long-lived success. The book was hidden under teenage boys' mattresses; thumbed through in book stalls; read aloud in girls' boarding schools, and sold by chapmen bringing metropolitan wares to distant rural communities. These many venues provide a key to the book's success: it was many things to many readers.

- 27 January **Simone Turchetti (University of Manchester)**
'In God we trust, all others we monitor': seismology and international affairs during the Cold War

Although seismology is primarily concerned with the study of earthquakes, its expansion during the Cold War depended on using seismic instrumentation to monitor the advancement of nuclear weapons programmes. Several historians have looked extensively at these developments focussing especially on how they overlapped negotiations on nuclear testing. In this paper I seek to expand on this literature by analyzing the uses of seismology for intelligence-gathering purposes. I thus suggest that as information-seeking was the priority for some of the key actors involved in negotiating a test ban, the striking of an international moratorium was made conditional upon this urgency. In fact these intelligence activities represented a major obstacle to the signing of a Comprehensive Test Ban Treaty and deeply affected international relations during the Cold War period.

3 February **Helen Beebee (University of Birmingham)**

How to carve nature across the joints without abandoning Kripke-Putnam semantics

Kripke-Putnam semantics (KP) for natural kind terms, according to which truths like ‘water is H₂O’ are metaphysically necessary but knowable only a posteriori, is often taken to have significant metaphysical consequences. In particular, it is often taken to justify ‘natural kind essentialism’. I argue that the metaphysical consequences of KP are in fact extremely weak; in particular, KP is consistent both with species pluralism (the view that there are several, equally ‘correct’ ways of classifying organisms) and with Kuhnian relativism.

10 February **Jimena Canales (Harvard University)**

A history of a tenth of a second

In the late fifteenth century, clocks acquired minute hands. A century later, second hands appeared. But it wasn’t until the 1850s that a widespread need was felt for instruments that could recognize a tenth of a second. Once they did, the profound impact of these tiny moments was revealed as they related to broader conceptions about the nature of time, causality, and free will. Intimately connected to technologies that defined modernity (telegraphy, photography, cinematography), this talk locates the reverberations of this perceptual moment for science, philosophy and mass media. Once scientists associated the value with the speed of thought, they developed reaction time experiments with lasting implications for experimental psychology, physiology and optics. Astronomers and physicists struggled to control the profound consequences of results that were a tenth of a second off. And references to the interval were part of a general inquiry into time, consciousness, and sensory experience that involved rethinking the contributions of Descartes and Kant. This talk investigates how these moments defined modernity (and the place of fingers and eyes in it) by asking what it means to write the history of a radically different time period.

17 February **James Ladyman (University of Bristol)**

How much pluralism?

Strong forms of scientific realism seem indefensible in the face of the history of science, and in particular the long list of theories that enjoyed great empirical success and yet whose central ontological and metaphysical commitments were abandoned by subsequent scientists. Pluralism is the thesis that there are alternative possible histories of science to our own in which quite different theoretical commitments were adopted at crucial stages. However, consideration of a few examples, including Newtonian gravitation, the ether and phlogiston, show that even in cases of radical theory change more than purely empirical structure is retained in subsequent science. Strong forms of antirealism are also indefensible in the light of a proper appreciation of the continuity in the history of science. The synthesis that resolves the dialectic is of course structural realism. The question as to how much pluralism is appropriate will be considered in the light of the cases discussed.

24 February **Fiona Clark (Queen’s University Belfast)**

Autoptēs: anti-venereal trials and the deconstruction of credibility, Mexico City (1790–92)

In 1792, at the request of the Real Academia de Medicina de Madrid, Daniel O’Sullivan, Surgeon to the Spanish Infantry at Puebla de los Ángeles, composed a 75-page report into the circumstances governing

the introduction of a new non-mercurial anti-venereal treatment known as the ‘Beato method’ in the Hospital de San Andrés, Mexico City. The details recorded in his report – the *Relación Histórico-Crítica de un supuesto Nuevo Methodo Antivenereo* (A historico-critical report into a purported new anti-venereal method) – demand serious consideration and should lead us to question whether they are merely the rantings of a half-crazed Irishman, or whether, embellishments notwithstanding, they provide new insights into the mechanisms of power in colonial Mexican and Spanish medicine. This paper will explore the way in which O’Sullivan adopts a range of literary devices in order to cast doubt on figures of authority, medical methodology, and institutional credibility. In his role as witness, and through use of the grotesque, theatricality, and the creation of suspense, the author seeks to create a mundo al revés (upside down world) in which the exercise of medical authority and all resulting claims are deemed unreliable, at best, and, at worst, pernicious to humanity. As such, the report acts as a witness and anatomy of the trials, laying bare the fabric of institutional corruption and the role of the ecclesiastical community within this. O’Sullivan’s work stands in stark contrast to any of the existing contemporary accounts of these events that have formed the framework for any historical narrative written to date.

3 March **Elma Brenner (HPS, Cambridge)**
Leprosy and identity in medieval Rouen

Leprosy (Hansen’s disease) has been described as the disease of the Middle Ages, and my research examines the impact that it had on the society of Rouen, one of the leading cities of medieval Western Europe. This paper will approach leprosy and its sufferers through the concept of identity, from the twelfth to the sixteenth centuries. Firstly, it will consider how the identity of lepers themselves was affected by their affliction. The social identity of individual lepers prior to contracting the disease undoubtedly played an important part in shaping their fate, since those who had financial backing entered monastic leper hospitals, while poorer lepers were left to beg. However, the language used to describe lepers suggested that their social status was transformed by the disease. Lepers were labelled as ‘leprosus’, ‘infirmus’, ‘pauper Christi’, ‘ladre’, ‘mesel’ and, for those lepers who begged, ‘leprosus extraneus’ or ‘lépreux forain’. In addition, lepers’ physical appearance, particularly their facial features, degenerated as a result of their disease. Since a person’s facial appearance is understood to reflect their individual personality, what impact did this have on the perception of lepers by others? Was their physical decay understood to reflect the sinfulness of their souls? The second part of the paper will examine the identity of the disease. Clerics and, in the later Middle Ages, physicians and surgeons, were called upon to diagnose suspected cases of leprosy. Sometimes cases were misdiagnosed, but recent archaeological work at a leper hospital cemetery near Rouen has revealed that the vast majority of residents indeed suffered from Hansen’s disease. The cemetery also contains skeletons exhibiting signs of other conditions such as polio. The paper will consider whether leprosy was linked to other illnesses that resulted in disability and physical degeneration, and the extent to which it was viewed by contemporaries as the disease afflicting their society.

10 March **Joel Isaac (Queen Mary, University of London/CRASSH, Cambridge)**
Kuhn’s education: Wittgenstein, pedagogy, and the road to structure

The theoretical edifice of *The Structure of Scientific Revolutions* rests on a very particular – and peculiar – account of what is involved in learning a theory by example. Normal science, anomaly, crisis, revolution, even the paradigm itself – each of these mechanisms driving scientific development can operate in the way that Kuhn suggests only insofar as theories and their applications are learned, not as sets of explicit rules or operational algorithms, but instead from a concrete and finite range of model puzzle solutions enshrined in textbooks and laboratory or classroom demonstrations. What is peculiar about this account of the learning of scientific theory through practical modes of instruction is that, despite the recent flourishing of historical studies in science pedagogy – many of which take Kuhn as their lodestone – few of *Structure’s* innumerable exegetes have noted how philosophically undermotivated and historiographically unsubstantiated the treatment of this topic is in Kuhn’s book. We see this most clearly in the chapter that presents the nerve of Kuhn’s argument about how normal science can function without collective agreement on rules: Chapter V – The Priority of Paradigms. Drawing on Kuhn’s unpublished papers, I show that the all-important Chapter V – and Kuhn’s repudiation of rules in favour of paradigms – were very late additions to *Structure*. This apparently minor revision in the drafting process is illuminating in several respects. Kuhn’s enthusiastic endorsement of Wittgenstein’s discussion of an agent’s learning of words through exposure to finite sets of applications (with the implication that a family resemblance or overlap between speakers’ model examples of the application of a term would be enough to secure common meaning in the absence of

rules) reflected the growing influence of the *Philosophical Investigations* on American philosophy and the human sciences in the 1960s. Importantly, however, Kuhn's appeal to Wittgenstein was at variance with the sceptical surmises that colleagues such as Stanley Cavell took from the *Investigations*. Even more significant was Kuhn's near total neglect of the historical study of the textbooks and pedagogical regimes that underpinned both normal and revolutionary science. Here I argue that Kuhn's elaborate appeal to the idea of learning by example – in the absence of any systematic historical study of science pedagogy – can be explained by his acculturation in case-based pedagogy and the theory of general education at Harvard University during the late 1940s and early 1950s. Thus the hastily patched together remarks on Wittgenstein and training regimes in *Structure's* Chapter V are, so I will claim, the shadow cast by Kuhn's formative engagement with the case method at Harvard University.

History of Medicine

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, Lauren Kassell and Francis Neary.

25 January **Peregrine Horden (Royal Holloway, University of London)**
Spaces of healing: Byzantium and medieval Islam compared

8 February **Richard McKay (University of Oxford)**
'Patient zero' and the early years of the North American AIDS epidemic

22 February **Valentina Pugliano (University of Oxford)**
Mortars, exotic drugs, and a battle for expertise: Verona 1561–1566

8 March **Kate O'Riordan (University of Sussex)**
Cloning and film: fictional vectors of factual imaginaries
(This seminar links to the series of six films on reproduction that begins at the Arts Picturehouse, Cambridge, on 7 March.)

Cabinet of Natural History

This research seminar is concerned with all aspects of the history of natural history and the field and environmental sciences. The regular programme of papers and discussions takes place over lunch on Mondays. In addition, the Cabinet organises a beginning-of-year fungus hunt and occasional expeditions to sites of historical and natural historical interest, and holds an end-of-year garden party.

Seminars are held on **Mondays at 1pm in Seminar Room 1**. You are welcome to bring your lunch with you.

Organised by Caitlin Wylie.

24 January **Valentina Pugliano (University of Oxford)**
The hungry cats of Pietro Antonio Michiel, or the fragile nature of Renaissance collecting

31 January **Simon Schaffer (HPS, Cambridge)**
The poisoner's regress: on orientalism and natural history

7 February **Clare Roche (Birkbeck, University of London)**
Mountainous effects: Alpine space and Victorian lady climbers

14 February **Ruth Prince (Cambridge Centre of African Studies)**
Healthcare and welfare in contemporary Kenya

- 21 February **Shana Worthen (University of Arkansas at Fort Worth)**
The subjectivity of early modern knowledge in the Garden of Life
- 28 February **Susannah Gibson (HPS, Cambridge)**
Newtonian vegetables and perceptive plants
- 7 March **Mirjam Brusius (HPS, Cambridge)**
'Map of Turkey, a flexible hat, pencils, and the Talbotype': travelling artists in mid-19th century archaeological expeditions to the Middle East
- 14 March **Ruth Horry (HPS, Cambridge)**
Using Babylonian gods to sell cod liver oil: Henry Wellcome and medical interest in Assyriology around 1900

Twentieth Century Think Tank

The Think Tank offers broad coverage of 20th-century and contemporary topics in the history and philosophy of science. We alternate sessions between seminar talks presented by invited speakers and reading groups led by members of the Department. Copies of the texts for the reading group sessions can be found in the TCTT box in the Whipple Library.

Our slot alternates with the Twentieth-Century Biology Reading Group (see page 12), with **meetings every other Tuesday, 1–2pm in Seminar Room 1**. Everyone is welcome, and feel free to bring lunch!

For more information email hps-think-tank@lists.cam.ac.uk

- 25 January Seminar: **Katy Price (Anglia Ruskin University)**
Dreaming the future: J.W. Dunne's *An Experiment with Time*
- 8 February Reading group: **Kathryn Schoefert (HPS, Cambridge)**
In a particular setting
- Readings:
1. Thomas Gieryn, 'What Buildings Do', *Theory and Society* 31, No. 1 (2002), pp. 35–74.
 2. Bruno Latour and Alben Yaneva, "'Give Me a Gun and I Will Make All Buildings Move": An ANT's View of Architecture', in Reto Geiser (ed.), *Explorations in Architecture: Teaching, Design, Research* (Basel: Birkhäuser, 2008), pp. 80–89.
 3. [Optional] Stuart W. Leslie, "'A Different Kind of Beauty": Scientific and Architectural Style in I.M. Pei's Mesa Laboratory and Louis Kahn's Salk Institute', *Historical Studies in the Natural Sciences* 38, No. 2 (2008), pp. 173–221.
- 22 February Seminar: **Claire Blencowe (Newcastle University)**
'Biosociality' to feminist-eugenics: rethinking contingency and racism in 20th-century sociological science
- 8 March Reading group: **Jesse Olszynko-Gryn (HPS, Cambridge)**
Historians and the patient-consumer
- Readings:
1. Flurin Condrau, 'The Patient's View Meets the Clinical Gaze',

Social History of Medicine 20 (2007), pp. 525–540.

2. Alex Mold, 'Patient Groups and the Construction of the Patient-Consumer in Britain: An Historical Overview', *Journal of Social Policy* 39 (2010), pp. 505–521.

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!

- 1 February **Sandrine Bertaux (Marmara University, Istanbul)**
Race and population: fertility theories and the status of demography, 1920s–1960s
- 1 March **Mary Fissell (Johns Hopkins University)**
Sarah Stone, William Cadogan and Enlightenment motherhood

Philosophy Workshop

The HPS Philosophy Workshop is a fortnightly seminar devoted to the discussion of on-going work by researchers in philosophy. Papers are invited from all graduate students and post-docs: it is a great format for getting some constructive and informal feedback on an essay, PhD chapter or potential article. Papers are circulated by email one week in advance of each meeting – the author will then give a brief synopsis on the day followed by roughly 45 minutes of Q&A.

Meetings take place **every other Wednesday from 1–2pm in Seminar Room 1**. The meeting dates are as follows:

- 2 February
16 February
2 March
16 March

If you would like to present, or have any questions, please contact Emily McTernan.

HPS History Workshop

The HPS History Workshop is a seminar group devoted to peer discussion of work in progress in all areas of the history of science, medicine and technology. All HPS postgraduate students with an interest in history are welcome to present draft MPhil essays, PhD chapters, conference papers, etc. The workshop encourages friendly and constructive feedback while providing a fortnightly point of contact for postgraduate historians at HPS.

Sessions will be held on alternate **Wednesdays in Seminar Room 1, 1pm–2pm**.

Organised by Alexandra Bacopoulos-Viau.

- 26 January **Jesse Olszynko-Gryn (HPS, Cambridge)**
Pregnancy testing and the 1930s controversy over the hormonal placenta
- 9 February **Jacob Orrje (Uppsala University/HPS, Cambridge)**
To graze and virtue: Anders Gabriel Duhre as a virtuous maker of useful knowledge in early 18th-century Sweden
- 23 February **Thibaud Trochu (University of Paris-I Sorbonne)**
How the Harvard archives reveal that William James was a highly skilled hypnotist

- 9 March **Raf De Bont (KU Leuven/Imperial College London)**
'Lies and frivolity': manners in scientific dispute in 19th-century Britain and Germany

AD HOC

AD HOC is a history of chemistry reading group based in Cambridge and London. While our main focus is historical, we also consider the philosophical, sociological, public and educational dimensions of chemistry. This term's theme is 'Building Blocks of Chemistry'.

The group meets four times per term, on **Wednesdays, 5pm–6.30pm in Seminar Room 1**. Readings are available from the Whipple Library, and also circulated via our mailing list. A parallel series of meetings is held in London. For details visit our website, www.hps.cam.ac.uk/adhoc.

Organised by Hasok Chang and Jenny Rampling.

- 19 January 'Structures'
Introduced by **Cristina Chimisso (Open University)**
Draft of ch. 4 ('Le matérialisme composé') of Gaston Bachelard, *Le matérialisme rationnel* (1953), trans. Nick Jardine and Jenny Bangham
- 2 February 'Atoms'
Selection from D.S.L. Cardwell (ed.), *John Dalton and the Progress of Science* (Manchester: Manchester University Press, 1968)
- 16 February 'Molecules'
Introduced by **Hasok Chang (HPS, Cambridge)**
'HO or H₂O? Underdetermination Revisited'. Draft chapter from Hasok Chang, *Is Water H₂O? Evidence, Realism and Pluralism* (forthcoming with Boston Studies in Philosophy of Science, Springer)
- 9 March 'Principles'
Introduced by **Jo Hedesan (University of Exeter)**
1. Jan Baptist van Helmont, *Oriatrike, or, Physick Refined*, trans. John Chandler (London, 1662; repr. 1664): Ch. 57, 'Tria prima Chymicorum principia or The three first Principles of the Chymists' (esp. pp. 401–408)
2. Robert Boyle, *The Sceptical Chymist* (London, 1661): pp 173–185
3. Allen G. Debus, *The Chemical Philosophy*, vol. 1 (New York, 1977): extract from Ch. 2, 'The Chemical Philosophy' (the subchapter 'Chemical Theory and the Elements'): pp. 78–84

Philosophy of Science Reading Group

We will be reading *Science, Policy, and the Value-Free Ideal* by Heather E. Douglas (University of Pittsburgh Press, 2009). Meetings will involve a short presentation by a member of the group followed by a general discussion.

Meetings will take place on **Thursdays at 2pm in Seminar Room 1** and are open to all. Organised by Hasok Chang and Jonathan Birch.

- 20 January Chapter 1, 'Introduction: Science Wars and Policy Wars'
27 January Chapter 2, 'The Rise of the Scientific Advisor'
3 February Chapter 3, 'Origins of the Value-Free Ideal for Science'
10 February Chapter 4, 'The Moral Responsibilities of Scientists'
17 February Chapter 5, 'The Structure of Values in Science'
24 February Chapter 6, 'Objectivity in Science'
3 March Chapter 7, 'The Integrity of Science in the Policy Process'
10 March Chapter 8, 'Values and Practices'

Philosophy of Biology Reading Group

We will be reading Kim Sterelny's *Thought in a Hostile World: The Evolution of Human Cognition* (Blackwell, 2003), winner of the 2004 Lakatos Award.

Meetings will take place on **Fridays at 2pm in the Lodge Seminar Room** and are open to all. Organised by Joeri Witteveen and Jonathan Birch.

- 21 January Chapter 1, 'Evolutionary Naturalism', and Chapter 2, 'Detection Systems'
- 28 January Chapter 3, 'Fuels for Success', and Chapter 4, 'Fuels for Success: The Social Intelligence Hypothesis'
- 4 February Chapter 5, 'The Descent of Preference'
- 11 February Chapter 6, 'Reconstructing Hominid Evolution'
- 18 February Chapter 7, 'The Cooperation Explosion'
- 25 February Chapter 8, 'The Self-made Species', and Chapter 9, 'Heterogeneous Environments and Variable Response'
- 4 March Chapter 10, 'The Massive Modularity Hypothesis'
- 11 March Chapter 11, 'Interpreting Other Agents'

Twentieth-Century Biology Reading Group

The group will discuss papers relating to the history, philosophy and historiography of twentieth-century biology. Articles will be placed well in advance in a box in the Whipple Library. Meetings are **every other Tuesday from 1–2pm in Seminar Room 1**, alternating with the Twentieth Century Think Tank.

Organised by Dmitriy Myelnikov.

- 1 February Styles of thought in genetics
Harwood, Jonathan. *Styles of scientific thought: the German genetics community, 1900–1933*. Chicago & London: University of Chicago Press, 1993. Chapter 1 (pp. 1–48).
- 15 February Communicating biology and medicine
Myers, Greg. *Writing biology: texts in the social construction of scientific knowledge*. Madison: University of Wisconsin Press, 1990. Chapter 4 (pp. 101–140).
Nathoo, Ayesha. *Hearts exposed: transplants and the media in 1960s Britain*. Basingstoke: Palgrave Macmillan, 2009. Chapter 3 (pp. 57–85).
- 1 March Genetics and making maps
Falk, Raphael. 'Applying and extending the notion of genetic linkage: the first fifty years'. In *Classical genetic research and its legacy: the mapping cultures of twentieth-century genetics*, edited by Hans-Jörg Rheinberger and Jean-Paul Gaudillière. Abingdon: Routledge, 2004. (pp. 34–56).
Hilgartner, Stephen. 'Making maps and making social order'. In *From molecular genetics to genomics: the mapping cultures of twentieth-century genetics*, edited by Jean-Paul Gaudillière and Hans-Jörg Rheinberger. Abingdon: Routledge, 2004. (pp.

113–128).

15 March Medicine and the laboratory

Papers from the special issue of *Social History of Medicine* (forthcoming); details TBC.

Science and Literature Reading Group

Dialogues

We meet on **Mondays from 7.30 to 9pm in the Skillicorn Room at Homerton College**. Readings are available online: follow the links at www.hps.cam.ac.uk/seminars.

Organised by Daniel Friesner (Science Museum), Melanie Keene (Homerton College) and Liz Smith (Darwin Correspondence Project). For more information, or to join our email list, please contact Daniel Friesner. *All welcome!*

31 January Plato, *Meno* (c. 380 BC)

14 February Galileo Galilei, *Dialogue Concerning the Two Chief World Systems* (1632) (Second Day)

28 February Denis Diderot, *The Dream of D'Alembert* (1769)

14 March Gerard Manley Hopkins, 'On the Origin of Beauty' (1865)
Oscar Wilde, 'The Decay of Lying' (1889)

History and Theory Reading Group

The group will discuss articles (their own, and those of others) relating to problems of historical research, interpretation, explanation and narration. Articles will be placed well in advance in a History and Theory box in the Whipple Library. Suggested additional readings are listed at www.hps.cam.ac.uk/seminars/theory.html

We meet on **Fridays, 2.30pm to 4pm in Seminar Room 1**. Organised by Jenny Bangham and Katharina Kraus.

21 January **Sophie Waring (HPS, Cambridge)**

Boundary work in the history of science

Gieryn, Thomas F., 'Boundary-work and the Demarcation of Science from Non-Science: Strains and Interests in Professional Ideologies of Scientists'. *American Sociological Review* (1983) 48. 6, 781–795.

Barton, Ruth, 'Men of Science: Language, Identity and Professionalization in the mid-Victorian Scientific Community'. (2003) *History of Science*. 41, 73–119.

4 February **Daniel Wilson (Cambridge Victorian Studies Group)**

Truth and postmodernity

Paul Forman, '(Re)Cognizing Postmodernity: Helps for Historians – of Science Especially' in *Berichte zur Wissenschaftsgeschichte* 33, 2 (2010): 157–75.

Paul Forman, 'Truth and Objectivity, Part 1: Irony' in *Science* 269, 5223 (1995): 565–567.

Paul Forman, 'Truth and Objectivity, Part 2: Trust' in *Science* 269, 5224 (1995): 707–

710.

- 18 February **Sam James (Faculty of History, Cambridge)**
Narrative, knowledge and explanation in the critical philosophy of history
Louis O. Mink, 'The Autonomy of Historical Understanding', *History and Theory* 5 (1966): 24-47.
Louis O. Mink, 'History and Fiction as Modes of Comprehension', *New Literary History* 1 (1970): 541-58.
Louis O. Mink, 'Narrative Form as a Cognitive Instrument'. First published in *The Writing of History*, ed. R. Canary and H. Kozicki, 129-49 (Madison: University of Wisconsin Press, 1978); now available more conveniently in Louis O. Mink, *Historical Understanding*, ed. Brian Fay, Eugene O. Golob, and Richard T. Vann, 182-203 (Ithaca, NY: Cornell University Press, 1987), or in Geoffrey Roberts (ed.), *The History and Narrative Reader* (London: Routledge, 2001), 211-20.
- 4 March **Katharina Kraus (HPS, Cambridge)**
Critical uses of history by philosophers
Peter Hylton, *Russell, Idealism and the Emergence of Analytic Philosophy*. (Oxford: OUP, 1990), Introduction: 1-17.
Richard Rorty, 'The Historiography of Philosophy: Four genres' in: *Philosophy in History. Essays on the historiography of philosophy*, Richard Rorty, J.B. Schneewind, Quentin Skinner (eds.) (Cambridge: CUP, 1984), 49-75 (+ Introduction: 1-14).
Michael Rosen, 'The History of Philosophy as Philosophy', in Brian Leiter and Michael Rosen (eds.), *The Oxford Handbook of Continental Philosophy* (Oxford: OUP, 2007), 122-54.

Kant Reading Group

Kant's Transcendental Arguments

In Lent Term, we will try to explore Kant's notion of transcendental argument and we also discuss more recent interpretations of transcendental arguments, such as those by Cassam, McDowell, Stroud and others.

Meetings are held in the **HPS Lodge from 3.30-5.00pm on Tuesdays**. They begin with a short presentation and are followed by general discussion. All are most welcome. If you have any questions, please feel free to contact Katharina Kraus.

- 25 January Addendum to the *Metaphysical Foundations of Natural Science* (Michaelmas 2010)
Watkins, Eric 'Kant's Justification of the Laws of Mechanics', in: Eric Watkins (ed.) *Kant and the Sciences*, Oxford: Oxford University Press, 136-159.
- 1 February An original: The transcendental argument for causality
Kant, Immanuel, *Critique of Pure Reason*, The Second Analogy (A189/B232-A211/B256)
- 8 February Stern, Robert (1999) 'On Kant's Response to Hume: The Second Analogy as Transcendental Argument', in: Robert Stern (ed.) (1999) *Transcendental Arguments*, Oxford: Oxford University Press, 47-66.

- 15 February Cassam, Quassim (1999) 'Self-Directed Transcendental Arguments', in: Robert Stern (ed.) *Transcendental Arguments*, Oxford: Oxford University Press, 83–110.
Cassam, Quassim (1987) 'Transcendental Arguments, Transcendental Synthesis and Transcendental Idealism', in: *Philosophical Quarterly* 37(149), 355–378.
- 22 February McDowell, John (2008) 'The Disjunctive Conception of Experience as Material for a Transcendental Argument', in: Fiona Macpherson & Adrian Haddock (eds.), *Disjunctivism: Perception, Action, Knowledge*. Oxford University Press.
- 1 March Lear, J. and Stroud, B. (1984), 'The Disappearing "We"', *Proceedings of the Aristotelian Society*, Supplementary Volumes, 58, 219–58.
- 8 March Chang, Hasok (2008) 'Contingent Transcendental Arguments for Metaphysical Principles', in: *Royal Institute of Philosophy Supplement* 63, 113–133.
- 15 March Bell, David (1999) 'Transcendental Arguments and Non-Naturalistic Anti-Realism', in: Robert Stern (ed.) *Transcendental Arguments*, Oxford: Oxford University Press, 189–210.

Generation to Reproduction Reading Group

This group discusses pre-circulated papers, classics as well as our own work, in the area of our Wellcome Trust strategic award in the history of medicine (www.reproduction.group.cam.ac.uk). We also hold work-in-progress sessions.

This term's meetings will be at **5–7pm** (tea from 4.50) on **Tuesdays 15 February and 15 March in Seminar Room 1**. To join the group, please email generate@hermes.cam.ac.uk

Latin Therapy

Latin Therapy will meet on **Fridays in the HPS Lodge from 4–5.30pm**. All levels are welcome and beginners are strongly encouraged to come along. Each week we will cover some introductory grammar, followed by a text suggested by members. The pain of the ablative absolute will be salved with copious tea and biscuits!

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 Susannah Gibson.

Easter Term 2011

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 Nicky Reeves.

- 28 April **Robbie Williams (University of Leeds)**
Decision making under indeterminacy
- 5 May **Salim Al-Gailani (HPS, Cambridge)**
The 'Great Ice Age' of anatomy: learning from frozen sections c. 1900
- 12 May **Emma Spary (Faculty of History, Cambridge)**
Expertise, endorsement and enlightenment: the trials and tribulations of health foods in late eighteenth-century Paris
- 19 May **Alireza Taheri (HPS, Cambridge)**
Lacan's conceptualization of the relation between psychoanalysis, science and philosophy
- 26 May ***Sixteenth Annual Hans Rausing Lecture (McCrum Lecture Theatre)***
Celina Fox
Surveying the scene, engineering the machine: drawing things together in the Age of Enlightenment

Abstracts

- 28 April **Robbie Williams (University of Leeds)**
Decision making under indeterminacy

When making a decision, sometimes we know what consequences each course of action will lead to. In other cases, we have to act without being sure whether the action we take secures the outcome we want. Decision theory (à la Ramsey, Savage, Jeffrey) is an attempt to analyze such situations.

But sometimes, we know (under at least one description) what outcome will result from each course of action open to us, but this is not enough to tell us whether what we want will be secured. This situation can be generated when our desires are formulated in terms infected with vagueness, indeterminacy and the like. For example, you might wish to refrain from killing a living being, but judge that there is 'no fact of the matter' whether a destructive act counts as such a killing. Or you might want to secure good things for your future self, but judge that it is indeterminate whether the person who benefits from a given action is really *you*.

I will develop a model of rational action under indeterminacy, drawing on work on 'imprecise probabilities' (prominent advocates of this as a model of uncertainty include Isaac Levi, Richard Jeffrey and Bas van Fraassen). The story will recommend a certain kind of mixed or randomized action, which fits nicely with a kind of 'inconstancy' that Crispin Wright has long argued is characteristic of our judgements in borderline cases of vague predicates. The decision-rule I describe at first glance recommends certain kinds of inconsistent patterns of behaviour over time – I show how it can be implemented to avoid this.

Finally, I'll apply the machinery developed to a touchstone puzzle of vagueness – the forced march sorites. The nice predictions it delivers here are evidence that the model of the conception of indeterminacy being developed is on the right track.

5 May **Salim Al-Gailani (HPS, Cambridge)**
The 'Great Ice Age' of anatomy: learning from frozen sections c. 1900

In the late nineteenth century anatomists claimed a new technique of slicing frozen corpses into sections translated the three-dimensional complexity of the human body into flat, easy-to-read and unprecedentedly accurate images. While histories of anatomical illustration consider frozen sectioning part of a longer trend towards precision in scientific image-making, I use the technique to expand our view of the place of visual aids in nineteenth-century medicine. Traditionally hostile to visual aids, elite anatomists controversially claimed frozen sections had replaced dissection as the 'true anatomy'. Even more remarkably, obstetricians adopted the technique to challenge anatomists' authority and reform how clinicians made and used pictures. I show that attempts to introduce frozen-section anatomy into such clinical disciplines as obstetrics and surgery reignited debates over whether medical expertise was constituted from images or through practical experience in the dissecting-room and at the bedside. Studying the making, uses and reception of frozen section anatomy broadens our understanding of the politics of representation in scientific practice.

12 May **Emma Spary (Faculty of History, Cambridge)**
Expertise, endorsement and enlightenment: the trials and tribulations of health foods in late eighteenth-century Paris

In this paper I will extend a discussion over expertise that has recently engaged both historians and sociologists of knowledge to a slightly unlikely topic: health foods. Drawing upon the institutional trials of food products marketed in eighteenth-century Paris for their health-giving properties, I will consider how and why producers of these specialised foods laid claim to scientific and medical enlightenment on their own behalf, and why they courted endorsements from the royal, scientific and medical institutions in the French capital. Considering Paris's Société Royale de Médecine (1776–1793) in particular, the paper will explore the ways in which the endorsement process affirmed, but also potentially compromised, the public authority of such institutions. As the Société laid claim to the role of neutral arbiter of natural knowledge, it increasingly needed to distance its official pronouncements about food products from established practices of endorsement. The views of entrepreneurs about the public role of this and other royal institutions, on the other hand, were very different. The construction of scientific and medical expertise within the public domain was thus, as Thomas Broman has shown, a complex process involving several different categories of actors, each of which produced its own configuration of the relationships between institutions, experts, producers and consumers.

19 May **Alireza Taheri (HPS, Cambridge)**
Lacan's conceptualization of the relation between psychoanalysis, science and philosophy

Psychoanalysis has been the subject of controversial critiques from a multitude of perspectives. Prominent among these are Masson's critique of Freud's abandonment of seduction theory, Sokal and Bricmont's critique of Lacan's 'abuse' of scientific and mathematical concepts, Foucault's critique of the 'repressive hypothesis' and psychoanalysis' pretence to universality (rather than seeing itself as merely one among many other 'hermeneutics of self'), Popper's critique of non-falsifiability and so on. Given the controversies surrounding psychoanalysis in general and Lacanian theory in particular, this talk will consider two related questions. The first concerns the scientificity (or lack thereof) of psychoanalysis. The second involves a critique of modern science in light of the Lacanian notion of the subject. Central themes involved in the elaboration of these two questions will be 1. the role of linguistics in Lacanian theory, 2. the importance accorded to mathematical formalization in Lacan's understanding of the scientific revolution (can psychoanalysis aspire to such formalization?), 3. the notion of the 'divided subject', 4. Lacan's attempt to rigorously demarcate psychoanalysis, distinguishing it from science, religion and magic, and finally 5. Lacan's equation of the 'subject of science' with the psychoanalytic notion of the 'subject of the unconscious' in light of the Cartesian *Cogito*.

Cabinet of Natural History

This research seminar is concerned with all aspects of the history of natural history and the field and environmental sciences. The regular programme of papers and discussions takes place over lunch on Mondays. In addition, the Cabinet organises a beginning-of-year fungus hunt and occasional expeditions to sites of historical and natural historical interest, and holds an end-of-year garden party.

Seminars are held on **Mondays at 1pm in Seminar Room 1**. You are welcome to bring your lunch with you.

Organised by Caitlin Wylie.

- 9 May **Expedition:** We'll travel to Sutton Hoo, a National Trust Anglo Saxon archeological site, with **Claire Wallace** of the Whipple Museum as our guide. We'll leave from HPS at noon. Drivers needed! More information and a sign-up sheet to follow.
- 16 May **Melanie Keene (Homerton College, Cambridge)**
The fairy-tales of science
- 23 May **Donald Opitz (DePaul University, Chicago)**
Victoria's secret: science and the monarchy
- 6 June **Sandra Knapp (Natural History Museum, London)**
The gilded canopy: the botanical ceilings of the Natural History Museum
- 10 June **Garden Party:** Talk by **Vanessa Heggie (HPS, Cambridge)**, 'Why isn't exploration a science?' Meet in Christ's College garden, 12–2pm. Snacks and drinks provided.

Twentieth Century Think Tank

The Think Tank offers broad coverage of 20th-century and contemporary topics in the history and philosophy of science.

For Easter Term 2011, the Think Tank will not be running seminars, and will instead host three film evenings curated by members of the Department, details of which TBC. Films will be shown at 6.30pm in the Queen's Building, Emmanuel College, on the following dates:

- 26 April
- 10 May
- 24 May

For more information email hps-think-tank@lists.cam.ac.uk

HPS History Workshop

The HPS History Workshop is a seminar group devoted to peer discussion of work in progress in all areas of the history of science, medicine and technology. All HPS postgraduate students with an interest in history are welcome to present draft MPhil essays, PhD chapters, conference papers, etc. The workshop encourages friendly and constructive feedback while providing a fortnightly point of contact for postgraduate historians at HPS.

Sessions will be held on alternate **Wednesdays in Seminar Room 1, 1pm–2pm**.

Organised by Alexandra Bacopoulos-Viau.

- 4 May **Jiri Hudecek (HPS, Cambridge)**
Ancient Chinese mathematics in action: Wu Wen-Tsun's ethnic historicism after the Cultural Revolution
- 18 May **Michael Bycroft (HPS, Cambridge)**
Did wonders ever cease? The singular, shining and spectacular in Charles Dufay's

- ‘Mémoires sur l’électricité’ (1733–7)
- 1 June Special joint session: **Joeri Witteveen (HPS, Cambridge)** and **Pierre-Olivier Méthot (University of Exeter)**
History and philosophy of biology: new perspectives?

Philosophy Workshop

The HPS Philosophy Workshop is a fortnightly seminar devoted to the discussion of on-going work by researchers in philosophy. Papers are invited from all graduate students and post-docs: it is a great format for getting some constructive and informal feedback on an essay, PhD chapter or potential article. Papers are circulated by email one week in advance of each meeting – the author will then give a brief synopsis on the day followed by roughly 45 minutes of Q&A.

Meetings take place **every other Wednesday from 1–2pm in Seminar Room 1**. The meeting dates are as follows:

11 May
25 May
8 June

If you would like to present, or have any questions, please contact Emily McTernan.

AD HOC

AD HOC is a history of chemistry reading group based in Cambridge and London. While our main focus is historical, we also consider the philosophical, sociological, public and educational dimensions of chemistry. This term’s theme is ‘Chemistry and Education’.

The group meets four times per term, on **Wednesdays, 5pm–6.30pm in Seminar Room 1**. Readings are available from the Whipple Library, and also circulated via our mailing list. A parallel series of meetings is held in London. For details visit our website, www.hps.cam.ac.uk/adhoc.

Organised by Hasok Chang and Jenny Rampling.

- 11 May ‘Chemistry in the curriculum’
Introduced by **Keith Taber (Faculty of Education, Cambridge)**
K. S. Taber, ‘The atom in the chemistry curriculum: fundamental concept, teaching model or epistemological obstacle?’ *Foundations of Chemistry* 5(1) (2003): 43–84.
K. S. Taber, ‘A common core to chemical conceptions: learners’ conceptions of chemical stability, change and bonding’ (draft chapter).
- 18 May ‘Learning chemistry from books’
Introduced by **Hasok Chang and Jenny Rampling (HPS, Cambridge)**
Ch. 3, Bruce Moran, *Andreas Libavius and the Transformation of Alchemy: Separating Chemical Cultures with Polemical Fire* (Sagamore Beach, MA: Science History Publications, 2007), pp. 31–52.
Brian Dolan, ‘The language of experiment in chemical textbooks: some examples from early nineteenth-century Britain’, in Anders Lundgren & Bernadette Bensaude-Vincent (eds.), *Communicating Chemistry: Textbooks and Their Audiences 1789–1939* (Canton, MA: Science History Publications, 2000), pp. 141–164.
- 1 June ‘Chemistry courses in the Enlightenment and beyond’
Introduced by **Robert Anderson (Clare Hall, Cambridge)** and **John Perkins (Oxford Brookes University)**
John Perkins, ‘Chemistry courses, the Parisian chemical world and the chemical revolution, 1770–1790’, *Ambix* 57(1) (2010): 27–47.
Robert G. W. Anderson, ‘Chemistry beyond the academy: diversity in Scotland in the early nineteenth century’, *Ambix* 57(1) (2010): 84–103.

- 8 June 'Chemistry in Cambridge'
Introduced by **Simon Schaffer (HPS, Cambridge)**
Simon Schaffer and Larry Stewart, 'Vignani and after: chemical enterprise in Cambridge 1680–1780', in Mary Archer & Christopher Haley (eds.), *The 1702 Chair of Chemistry at Cambridge: Transformation and Change* (Cambridge: CUP, 2005), pp. 31–56.

Philosophy of Science Reading Group

This term we will be looking at a selection of readings on classical and contemporary pragmatism. Meetings will involve a short presentation by a member of the group followed by a general discussion.

Meetings will take place on **Thursdays at 2pm in Seminar Room 1** and are open to all. Organised by Jonathan Birch and Hasok Chang.

- 28 April Hilary Putnam, 'Introductory Remarks' and 'The Permanence of William James', chapter 1 of *Pragmatism: An Open Question* (1995, Blackwell).
- 5 May Hilary Putnam, 'Was Wittgenstein a Pragmatist?', chapter 2 of *Pragmatism: An Open Question*.
- 12 May Hilary Putnam, 'Pragmatism and the Contemporary Debate', chapter 3 of *Pragmatism: An Open Question*.
- 19 May Richard Rorty, 'Privileged Representations', chapter IV of *Philosophy and the Mirror of Nature* (1979, Princeton University Press).

Philosophy of Biology Reading Group

This term we will be reading *Signals: Evolution, Learning, and Information* by Brian Skyrms.

Meetings will take place on **Fridays at 2pm in the Lodge Seminar Room** and are open to all. Organised by Jonathan Birch and Joeri Witteveen.

The schedule for the first four weeks is as follows:

- 29 April Introduction, ch. 1 'Signals'
- 6 May Ch. 2 'Signals in Nature' and ch. 3 'Information'
- 13 May Ch. 4 'Evolution' and ch. 5 'Evolution in Lewis Signaling Games'
- 20 May Ch. 6 'Deception' and ch. 7 'Learning'

Generation to Reproduction Reading Group

This group discusses pre-circulated papers, classics as well as our own work, in the area of our Wellcome Trust strategic award in the history of medicine (www.reproduction.group.cam.ac.uk). We also hold work-in-progress sessions.

This term's meetings will be at **5–7pm** (tea from 4.50) on **Tuesdays 10 and 24 May in Seminar Room 1**. To join the group, please email generate@hermes.cam.ac.uk

Twentieth-Century Biology Reading Group

The group will discuss papers relating to the history, philosophy and historiography of twentieth-century biology. Articles will be placed well in advance in a box in the Whipple Library. Meetings are **every other Tuesday from 1–2pm in the Lodge Seminar Room**.

Organised by Dmitriy Myelnikov.

- 3 May Historiographic reflections on biological disciplines
 Introduced by **Dmitriy Myelnikov**
 Caron, Joseph A. “‘Biology’ in the Life Sciences: A Historiographical Contribution’, *History of Science* 26 (1988): 223–68.
 Powell, Alexander, Maureen A. O’Malley, Staffan Müller-Wille, Jane Calvert, and John Dupré. ‘Disciplinary Baptisms: A Comparison of the Naming Stories of Genetics, Molecular Biology, Genomics, and Systems Biology’, *History and Philosophy of the Life Sciences* 29, no. 1 (2007): 5–32.
- 17 May Human genetics in the Third Reich
 Introduced by **Jenny Bangham**
 Weiss, Sheila Faith. *The Nazi Symbiosis: Human Genetics and Politics in the Third Reich*. Chicago: University of Chicago Press, 2010. Chapters 4 (pp.184–218) and 5 (pp. 219–264).
- 31 May Anthropological encounters and biomedical exchanges
 Introduced by **Salim Al-Gailani**
 Anderson, Warwick. *The Collectors of Lost Souls: Turning Kuru Scientists into Whitemen*. Baltimore: The Johns Hopkins University Press, 2008. Introduction (pp. 1–8), Chapters 4 (pp. 91–115) and 6 (pp. 133–160).

Science and Literature Reading Group

Our Animal Friends

We meet on **Mondays from 7.30 to 9pm in the Skillicorn Room at Homerton College**. Some of the readings are available online: follow the links at www.hps.cam.ac.uk/seminars.

Organised by Daniel Friesner (Science Museum), Melanie Keene (Homerton College) and Liz Smith (Darwin Correspondence Project). For more information, or to join our email list, please contact Daniel Friesner or Liz Smith. *All welcome!*

- 9 May Charles Darwin, *Expression of the Emotions* (1872), pp. 116–146
 Mary Martha Sherwood, *Soffrona and her cat Muff* (1828), pp. 6–31. Reprinted in *In Nature’s Name* (2002), edited by Barbara T. Gates
 Jack London, *White Fang* (1915), part IV
- 23 May Rudyard Kipling, *Just So Stories* (1902): Camel, Leopard, Rhinoceros and Elephant
 Stephen J. O’Brien, *Tears of the cheetah, and other tales from the genetic frontier* (2003), selection TBA
- 6 June James Herriot, *All Creatures Great and Small* (1976), chapters 1–3
 Hugh Lofting, *Voyages of Doctor Dolittle* (1922), chapters 1–3
 H.G. Wells, *Island of Doctor Moreau* (1896), ‘Doctor Moreau explains’

History and Theory Reading Group

Historiographical Functions of Experiment

In this series of three meetings, we will explore the historiographical uses of experiments. In recent decades many historians of science have plunged into the lab, attempting to replicate various past scientific experiments with some interesting results. But what exactly does the success or failure of replication teach us? How do we access knowledge about experiments described in past texts? How do we identify and interpret bygone events in the laboratory or on the dissection table? How should the historian handle seemingly impossible or absurd experimental claims by past scientists? And if past experiments can be replicated, then is it legitimate for the historian to vary or extend those experiments to learn more?

We meet on **Fridays, 2.30pm to 4pm in Seminar Room 1**. Organised by Jenny Bangham, Hasok Chang, Katharina Kraus and Jenny Rampling.

27 May **Hasok Chang (HPS, Cambridge)**

Introduction; Complementary experiments

Hasok Chang, 'How Historical Experiments Can Improve Scientific Knowledge and Science Education: The Cases of Boiling Water and Electrochemistry', *Science and Education* 20 (2011), 317–341 (DOI 10.1007/s11191-010-9301-8). This paper will be discussed along with video clips of some key electrochemical experiments.

Additional recommended reading: Hasok Chang, 'The Myth of the Boiling Point'.

Online article with video clips of experiments:

www.hps.cam.ac.uk/people/chang/boiling/

3 June **Jennifer Rampling (HPS, Cambridge)**

Impossible experiments

Lawrence M. Principe, 'Apparatus and Reproducibility in Alchemy'. In Frederic L. Holmes & Trevor H. Levere (eds.), *Instruments and Experimentation in the History of Chemistry* (Cambridge, MA: MIT Press, 2000): 55–74. This will be discussed alongside photos of some recent attempts to reproduce alchemical recipes.

Additional recommended reading: Vera Keller, 'Drebbel's Living Instruments, Hartmann's Microcosm, and Libavius's Thelesmos: Epistemic Machines before Descartes', *History of Science* 48 (2010), 39–74.

10 June **Karin Ekholm (HPS, Cambridge)**

Anatomical experiments

Fabricius ab Aquapendente, 'The Fleishy Substance' and 'The Cotyledons' in *The embryological treatises of Hieronymus Fabricius of Aquapendente: The formation of the egg and of the chick and The formed fetus, a facsimile edition with an introduction, a translation, and a commentary by Howard B. Adelman*, Vol. I, pp. 249, 251–59 [notes in Vol II, pp. 749–60].

William Harvey, 'Preface' to *Anatomical exercitation concerning the generation of living creatures to which are added particular discourses of births and of conceptions, &c.* (London, 1653).

Discussion will focus on the use of anatomical dissections to understand primary source texts and consider the problems such replications entail.

Kant Reading Group

In Easter Term, we will read the *Transcendental Deduction of the Categories* according to the second edition of the *Critique of Pure Reason* (1787). In the Transcendental Deduction, Kant aims to show that the categories, the pure concepts of the understanding derived in the Metaphysical Deduction, are conditions of all possible experience. This means that they are *a priori* grounds that feature as necessary components in any possible experience. This argument is known as one of the most obscure, though most fascinating, parts of the *Critique*.

Meetings are held in the **HPS Lodge from 3.30–5.00pm on Tuesdays**. They begin with a short presentation and are followed by general discussion. All are most welcome. If you have any questions, please feel free to contact Katharina Kraus.

Kant, Immanuel (1781/7, 1998) (CpR) *Critique of Pure Reason*, trans. and ed. P. Guyer and A.W.

Wood, Cambridge: CUP.

- 3 May § 15. B129 – B131
§ 16. B131 – B136
- 10 May § 17. B136 – B139
§ 18. B139 – B140
§ 19. B140 – B142
- 17 May § 20. B143
§ 21. B144 – B146
§ 22. B146 – B148
- 24 May § 23. B148 – B149
§ 24. B150 – B156
§ 25. B157 – B159
- 31 May § 26. B159 – B165
§ 27. B165 – B169

Particles and Fields Reading Group

This new reading group will meet on **Tuesdays, 2–3pm in Seminar Room 1** in the first four weeks of term. Organised by Jeremy Butterfield and Hasok Chang.

- 3 May **Jeremy Butterfield** introduces:
Mary Hesse, *Forces and Fields*, Chapters 6, 7 and 8.
- 10 May **Nazim Bouatta** introduces:
Marc Lange, *The Philosophy of Physics*, Blackwell, Chapter 5.
- 17 May **Hasok Chang** introduces:
Robert E. Schofield, *Mechanism and Materialism: British Natural Philosophy in An Age of Reason* (Princeton University Press, 1970), Chapter 1: ‘Newton’s Legacy’ (pp. 3–16), and Chapter 10: ‘Forces, Fluid Dynamics, and Fields’ (pp. 235–276).
- 24 May **Lena Zuchowski** introduces:
M. Frisch, *Inconsistency, Asymmetry and Non-Locality*, OUP, Chapter 2–3.
G. Belot, ‘Understanding electromagnetism’, *British Journal for the Philosophy of Science* 49, 1998, p. 531–555.

Latin Therapy

Latin Therapy will meet on **Fridays in the HPS Lodge from 4–5.30pm**. All levels are welcome and beginners are strongly encouraged to come along. Each week we will cover some introductory grammar, followed by a text suggested by members. The pain of the ablative absolute will be salved with copious tea and biscuits!

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 Susannah Gibson.

Greek Therapy

Greek Therapy meets **every Wednesday during term time in the HPS Lodge from 5.15 to 7.15pm**. We are an informal group for beginners and for experienced readers of Greek seeking to brush up their skills. The first hour of every session consists of a basic grammar session and reading simple texts, followed by an hour of reading from Plato’s *Theaetetus*. For information or to be added to the mailing list, please contact Liz Smith.