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# The Department

## Introduction

In this Annual Report, covering the academic year 2011-12, we highlight the contribution our members and affiliates have made towards the Department, the achievements of our students, the activities of the Whipple Library and Whipple Museum and the numerous seminars the Department has run.

We have been fortunate enough this year to appoint several new members of academic staff including Helen Curry who is the first holder of the Peter Lipton Lectureship as University Lecturer in History of Modern Science and Technology. Adrian Boutel, Chris Clarke and Beth Hannon also arrived this year and have begun work on Tim Lewens' ERC funded project 'A Science of Human Nature: Philosophical Disputes at the Interface of Natural and Social Science'. Tiago Mata, the Principal Investigator for the ERC funded 'Economics in the Public Sphere: USA, UK, France, Poland and Brazil since 1945', arrived in January, and his team Andrea Salter, Tomás Undurraga and Scott Anthony came a few months later. We also welcomed Shirlene Badger who took over from Francis Neary to be our Events and Outreach Officer for the History of Medicine. Lastly, we cannot go without mentioning Stephen John's new position, as a Lecturer in the Philosophy of Public Health.

With those who arrived, there were also those who left, including Greta Van Buylaere, Elaine Leong, Francis Neary and Lydia Wilson. We wish them all the best for their future endeavours and thank them for their invaluable contribution to the Department.

With the departure of Tim Eggington from the Whipple Library, Dawn Moutrey took on the role of Acting Librarian until Anna Jones joined us in March as the new Librarian. In the library's informative report on page 22 you will find details of their new acquisitions, the donations received over the year and further developments in online provision. Complementing its teaching and research support, the Whipple continued to promote its special collections through the Whipple Library Books Blog with contributions by library staff and other members of the department.

The Whipple Museum was involved in a number of outreach events throughout the year including the popular Twilight at the Museum and Open Cambridge, the feedback, which can be seen in the Museum's report, was overwhelmingly positive. Their special exhibition was 'The Acoustical Experiments of Lord Rayleigh' in which homemade apparatus from Rayleigh's workshop was displayed. Together with contributing to Departmental Teaching and also various television, radio and magazine appearances, it has been a very busy year for the Museum.

Of our PhD students, we can congratulate: Alexandra Bacopoulos-Viau, who was offered a two-year postdoctoral award from the Fonds Québécois de Recherche sur la Société et la Culture tenable at the Department of History at New York University (NYU); Joanna Burch-Brown who has just accepted a permanent lectureship at the University of Bristol, in "Normative Philosophy"; Jonathan Birch who has just taken a Junior Research Fellowship at Christ's College, Cambridge and Jenny Bangham, who has been awarded a postdoctoral fellowship at the Max Planck Institute for the History of Science in Berlin. She will be working from October 2013, for one year, in the research group 'Historicizing Knowledge about Human Biological Diversity in the 20th Century' directed by Veronika Lipphardt. From those who have recently been awarded their PhD, Jiri Hudecek, has just been appointed to an open-ended research contract at the International Sinological Centre at Charles University and Emily McTernan on her appointment to a permanent lectureship in Political Theory at the Department of Political Science, UCL.

Not only did we run several popular seminars over the year but we also played host to a number of successful conferences and events: The Communicating Reproduction Conference held in December organised by Nick Hopwood, Peter Jones, Lauren Kassell, Francis Neary and Jim Secord. The Non-human Empires: Between Agents and Actants conference organised by Rohan Deb Roy, Jim Secord, Simon Schaffer and Sujit Sivasundaram. The Transforming Pregnancy since 1900 conference led by Salim Al-Gailani, Angela Davis (Centre for the History of Medicine, University of Warwick) and Jesse Olszynko-Gryn and also The Origins of Science as a Visual Pursuit led by Sachiko Kusakawa; to name but a few.

Our success can be attributed to the outstanding calibre of the staff, academics and students who make up the Department. It is to you we must give an enormous thank you for all of your hard work and commitment.

*February 2013*

# Staff and Affiliates

## Administrative Staff

Tamara Hug  
Agnieszka Lanucha  
Louisa Russell  
David Thompson

## Computing Staff

Mark Rogers

## Library Staff

Tim Eggington  
Anna Jones  
Dawn Moutrey

## Museum Staff

Steven Kruse  
Alison Smith  
Claire Wallace

## Teaching Officers

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

## Research Fellows and Teaching Associates

Salim Al-Gailani  
Shirlene Badger  
Alexi Baker  
Marie-Francoise Besnier  
Andrew Cunningham  
Rohan Deb Roy  
Karin Ekholm  
Isla Fay  
Elizabeth Hannon  
Mike Hawkins  
Vanessa Heggie  
Natalie Kaoukji  
Elaine Leong  
Tiago Mata  
Francis Neary  
Hannah Newton  
Hilary Powell  
Ruth Prince  
Rob Ralley  
Chitra Ramalingam  
Jennifer Rampling  
Nicky Reeves  
Greta Van Buylaere  
Lydia Wilson  
John Young

## Affiliated Lecturers & CTOs

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

## College Fellows

Jeremy Butterfield  
Paul Dicken  
David Feller  
Sacha Golob  
Stephen John  
Peter Jones  
Melanie Keene  
Russell Manning  
Simon Mitton  
Leon Rocha  
Mark Sprevak  
Frances Willmoth

## Emeritus Professors

Nick Jardine  
Geoffrey Lloyd  
Michael Redhead

## Other UoC People who do HPS

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

## Affiliated Scholars

Jon Agar  
Robert Anderson  
Lisa Appignanesi  
Debby Banham  
Andrew Barry  
German Berrios  
Sanjoy Bhattacharya  
Adam Bostanci  
Peter Bowler  
Angela Breitenbach  
Elma Brenner  
Alex Broadbent  
Janet Browne  
Kevin Brosnan  
Robert Bud  
Tatjana Buklijas  
Cristina Chimisso

Soraya de Chadarevian  
Cristina Chimisso  
Alix Cohen  
Peter Collins  
Christopher Cullen  
Shinjini Das  
Silvia De Renzi  
John Durant  
Katie Eagleton  
Michael Edwards  
Nader El-Bizri  
Roger Gaskell  
Jeremy Gray  
Ole Grell  
Philippa Hardman  
Anne Harrington  
Sonia Horn  
Gill Hudson  
Shelley Innes  
Catherine Jami  
Richard Jennings  
Ludmilla Jordanova  
Eli Kingma  
Martin Kusch  
Gerald Kutcher  
Emese Lafferton  
Chris Lewis  
Helen Macdonald  
Lara Marks  
Anita McConnell  
Christina McLeish  
James Moore  
Adam Mosley  
Ayesha Nathoo  
Jaume Navarro  
Onora O'Neill  
John Parker  
Alison Pearn  
Katy Price  
Sadiah Qureshi  
Ruth Richardson  
Lisbet Rausing  
Martin Rudwick  
Colin Russell  
Christine Salazar  
Anne Secord  
Alistair Sponsel  
Jacqueline Stedall  
Rebecca Stott  
Laurence Totelin  
Martin Underwood  
Andrew Wear  
Rick Welch  
Paul White  
Sarah Wilmot  
Daniel Wilson  
Catherine Wilson  
Eli Zahar

# Visitors and Students

## Visiting Scholars and Students

Miruna Achim  
Dave Bandke  
Nike Fakiner  
Oliver Gam  
Irene Goudarouli  
Nina Holsteiner  
Vangelis Koutalis  
Ian Lawson  
Meng Li  
Wang LuoYin  
Cesare Maffioli  
Francisco Orrego  
José Ramón Marcaida  
Markus Oppenauer  
Denise Pereira  
Sally Stafford  
Babu Thaliath  
Weimin Xiong

## PhD students

Shahar Avin  
Alexandra Bacopoulous-Viau  
Jennifer Bangham  
Katy Barrett  
Jonathan Birch  
Shannon Bohle  
Ramona Braun  
Sophie Brockmann  
Joanna Burch Brown  
Michael Bycroft  
William Carruthers  
Yoon Choi  
Sean Dyde  
Carl Fisher  
Susannah Gibson  
Natasha Goldberg  
James Hall  
Ruth Horry  
Jiri Hudecek  
Stephen Irish  
Boris Jardine  
Jeremy Kessler  
Katharina Kraus  
Allison Ksiazkiewicz  
Emily McTernan  
Esther Momcilovic  
Iris Montero-Sobrevilla  
Lisa Mullins

Dmitry Myelnikov  
Joshua Nall  
Jesse Olszynko-Gryn  
Emma Perkins  
Eoin Phillips  
Vashka dos Remedios  
Alix Rogers  
Kathryn Schoefert  
Minwoo Seo  
Arianne Shahvisi  
Katie Taylor  
Nicholas Teh  
Christopher Wagner  
Michelle Wallis  
Julie Walsh  
Sophie Waring  
Billy Wheeler  
Joeri Witteveen  
Alexander Wragge-Morley  
Caitlin Wylie  
Katharine Zimmerman  
Lena Zuchowski

## MPhil students

Megan Barford  
Riana Betzler  
Toby Bryant  
Alastair Cliff  
Tegan Donnelley  
Ruth Ezra  
Sebastian Falk  
Florian Ganzinger  
Natalie Harries  
Andrea Kennedy  
Grace Kim  
David Liebers  
Matthew Meizlish  
William Peden  
James Poskett  
Rahul Rose  
Marie Schleper  
Thomas Welch  
Harry Wooler

## Part III students

Faraz Dianat  
Craig Docherty  
Charlotte Granville  
Karina Kumar  
Rory Nath

Lowri Richards  
Reuben Shiels  
Jack Stevens  
Tillmann Taape  
Oliver Watson

## Part II students

Hamish Auld  
Katherine Bertrand  
Rosanna Brandeth  
Jenny Bulstrode  
Lei Cao  
Rhea Clubb  
Sophie Daud  
William English  
Callum Fowers  
Sam Fromson  
Thomas Fryer  
Liam Gabb  
Helen Gaffney  
Martha Henriques  
Isabel Hughes  
Paddie Ingleton  
Steven John  
Jonathon Kram  
Kieron Kumar  
Philip Liebman  
Victoria Lindsay  
Christopher Logan  
Elliot Malone  
Issy Marks  
Oliver Marsh  
Henry Marshall  
Laura Mawer  
Charlotte McClean  
Alexander McCracken  
Nicholas Melgaard  
Thomas Moule  
Emma Nunn  
Alistair Potts  
Catherine Pulman  
Jack Shukman  
Callum Smith  
Nick Taylor  
Susannah Thom  
Nathan Thomas  
Olivia Vane  
Anthony Woodman

# Comings and Goings

**Dr Shirlene Badger** joined the Department in January as the new Events and Outreach Officer for the History of Medicine.

**Dr Adrian Boutel** arrived in August to join Dr Tim Lewens' project as a Research Associate in History and Philosophy of Social Science.

**Dr Greta Van Buylaere** left the Department in September to relocate to Germany. She will continue to work on Eleanor Robson's Leverhulme Trust-funded research project Assyrian-Babylonian Scholarly Literacies until December.

**Dr Christopher Clarke** joined us in August as part of Dr Lewens' project as the second of the two Research Associates.

**Dr Helen Curry** arrived in August to be the first holder of the Peter Lipton Lectureship as University Lecturer in History of Modern Science and Technology.

**Dr Beth Hannon** joined us in the Department in January as a half-time researcher and administrator on Tim Lewens' ERC grant.

**Dr Stephen John** was appointed to the lectureship in the Philosophy of Public Health at the beginning of September.

**Ms Anna Jones** joined as the new Whipple Librarian in March.

**Dr Elaine Leong** joined us for the academic year holding a Wellcome Trust Research Fellowship in the Department, before moving on to the Max Planck Institute for the History of Science in Berlin where she has been awarded a 5-year Minerva Professorship.

**Dr Tiago Mata** arrived in January as a Senior Research Associate. He will be the Principal Investigator on the European Research Council funded project, "Economics in the Public Sphere: USA, UK, France, Poland and Brazil since 1945".

**Dr Hannah Newton** began working in the Department in October as a Wellcome Trust Postdoctoral Fellow.

**Dr Andrea Salter** joined the Department at the beginning of September as a Research Assistant to work on the project Economies in the Public Sphere.

**Dr Tomás Undurraga**, a Research Associate, joined the Economies in the Public Sphere team in September.

**Dr Lydia Wilson** left the Department in August to take up the position of Visiting Assistant Professor at the Mellon Committee for the Study of Religion at City University New York, working on emerging political narratives in post-Mubarak Egypt.

# Roles and Responsibilities

## Departmental Positions

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

**Administrative Officer:** Ms Tamara Hug

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

**MPhil and Part III Manager:** Professor Hasok Chang

**Part II Manager:** Professor Simon Schaffer (M), Professor John Forrester (L, E)

**Part IB Manager:** Dr Nick Hopwood

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

**Dignity Officer:** Professor Hasok Chang

**College Liaison Officer:** Professor Liba Taub

**Chair Monitoring Committee:** Professor Simon Schaffer

**Graduate Training Officer:** Dr Anna Alexandrova

## HPS Board and Degree Committee

**Chair of the HPS Board and Degree Committee:** Professors Simon Schaffer and Liba Taub

**Professors and Readers:** Professors Hasok Chang, John Forrester (Head), Simon Schaffer, Jim Secord and Liba Taub. Dr Tim Lewens and Dr Eleanor Robson

**Curator and Director of the Whipple Museum:** Professor Liba Taub

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

**Librarian:** Ms Anna Jones

**General Board Members:** Professor Peter Mandler and Dr Michael Bravo

**Co-options:** Dr Nick Hopwood, Dr Anna Alexandrova, Professor Tim Crane and Dr Vanessa Heggie

**Elected Members:** Dr Peter Jones, Dr Elaine Leong, Dr Karin Ekholm and Dr Marina Frasca Spada

**Junior Members:** Undergraduates: Shenyue Ding (EM) and Oliver Marsh (CHR) Graduate: Katy Barrett (CAI)

## Philosophy Faculty Board

**HPS Representative:** Professor Hasok Chang and Dr Tim Lewens

## Examiners

### NST Part IB History and Philosophy of Science

**Senior Examiner:** Professor John Forrester

**Examiners:** Dr Jennifer Rampling, Dr Sacha Golob, Dr Anna Alexandrova, Dr Elaine Leong and Dr Marina Frasca Spada

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

**Senior Examiner:** Dr Tim Lewens

**External Examiner:** Dr Staffan Müller-Wille (University of Exeter)

**Examiners:** Professor Hasok Chang, Dr Karin Ekholm, Dr Vanessa Heggie, Professor Nick Jardine and Dr Melanie Keene

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

**Senior Examiners:** Dr Nicky Reeves and Professor John Forrester

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



# Prizes, Projects and Honours

## Student Prizes

**Sebastian Falk** and **James Poskett** were jointly awarded the 15<sup>th</sup> Annual Jennifer Redhead Prize for best performance in the essay component of the MPhil course.

**Florian Ganzinger** received the 9<sup>th</sup> Annual Rausing Prize for the best performance in the dissertation component of the MPhil.

## New Research Projects

Wellcome Trust	Before HIV: sex and venereal disease	Richard McKay	01/10/12-30/09/15
AHRC	Exploring Traditions: Sources for a Global History of Science	Simon Schaffer with Sujit Sivasundaram	01/10/12-30/09/14
Wellcome Trust	PhD studentship: Ramona Braun	Nick Hopwood	01/10/11-30/09/14
AHRC	The Origins of Science as a Visual Pursuit	Sachiko Kusakawa	01/01/12-30/04/13
British Academy	Experiment and Visual Culture in 19 <sup>th</sup> Century Science	Chitra Ramalingam	01/10/11-30/09/14 (ext 30/09/15)
Wellcome Trust	Magic and Medicine in Early Modern England	Lauren Kassell	01/01/13-30/09/13
Leverhulme	Assyrian-Babylonian scholarly literacy: identifying individual spelling habits	Eleanor Robson	01/05/11-31/12/12
ERC	Economics in the Public Sphere: USA, UK, France, Poland and Brazil since 1945	Tiago Mata	01/01/12-30/12/16
ERC	A Science of Human Nature? Philosophical Disputes at the Interface of Natural and Social Science	Tim Lewens	01/09/11-31/08/16
Wellcome Trust	Reading and Writing Medicine in Early Modern England	Elaine Leong	01/09/11-31/08/14
Wellcome Trust	Better by Degrees: Recovery from Illness in Early Modern England, c. 1580-1720	Hannah Newton	01/10/11-30/09/14

# Seminars and Special Lectures

## Wellcome Lecture

**Dr Staffan Müller-Wille** of the University of Exeter delivered the seventh Cambridge Wellcome Lecture in the History of Medicine on 19 January 2012 on the subject 'Revisiting the Mendelian revolution'.

## Rausing Lecture

**Dr Thomas Schlich** from McGill University delivered the seventeenth Annual Hans Rausing Lecture in Mill Lane Lecture Room 1 on the subject of 'The modern rise of surgery: gloves as a technology of control'.

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

**Departmental Seminars in the Department of History and Philosophy of Science** organised by Karin Ekholm

**Research Topics and Resources Seminars** organised by Simon Schaffer and Anna Alexandrova

**History of Medicine** organised by Elaine Leong, Nick Hopwood and Karin Ekholm

**Cabinet of Natural History** organised by Sophie Waring

**Twentieth Century Think Tank** organised by Leon Rocha and Kathryn Schoefert

**HPS History Workshop** organised by Rohan Deb Roy and Caitlin Wylie

**Philosophy Workshop** organised by Emily McTernan and Vashka dos Remedios

**Science and Literature Reading Group** organised by Daniel Friesner

**History and Theory Reading Group** organised by Michael Bycroft, Minwoo Seo and Hasok Chang

**Generation to Reproduction Reading Group** organised by Nick Hopwood

**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 Jonathan Birch

**Medieval Medicine Discussion Group** organised by Peter Jones and Debby Banham

**Twentieth-Century Biology Reading Group** organised by Dmitriy Myelnikov and Salim Al-Gailani

**Astronomical Images Group** organised by Isla Fay

**Philosophy and History of Physics Reading Group** organised by Hasok Chang, Simon Schaffer, Nazim Bouatta and Jeremy Butterfield

# Student Statistics

## Student Numbers

<b>Undergraduates</b>	Part IB .....	72
	Part II .....	37
	Part II BBS: History and Ethics of Medicine .....	33
	Part III .....	9
<b>Graduates</b>	MPhil.....	19
	PhD.....	50

## Examination Results

<b>Part II</b>	1 .....	16 (43%)
	2i .....	19 (51%)
	2ii .....	1 (3%)
	3 .....	0
	Fail .....	0
<b>Part II BBS: History and Ethics of Medicine</b>	1.....	5
	2i.....	26
	2ii.....	2
	3.....	0
	Fail.....	0
<b>Part IB</b>	1 .....	15 (21%)
	2i.....	27 (39%)
	2ii.....	21 (30%)
	3.....	6 (9%)
	Fail.....	0

## Graduate Degrees Awarded

MPhil degrees awarded.....	19
Part III degrees awarded .....	9
PhD degrees award .....	15

# Part II Essay and Dissertation Titles

## Primary Source Essays

### Paper 1: Classical Traditions in the Sciences

- How was Philoponus influenced by the Neoplatonic goal of harmonisation?
- Philoponus on Aristotle's aporia on cloud formation

### Paper 2: Early Medicine

- A comparison of Fracastoro's views in *De Contagione* with those expressed by the physicians examining syphilis at the end of the 15<sup>th</sup> century
- A comparison of Girolamo Fracastoro's theory on the origin of syphilis in his works *De Contagione et Contagiosis Morbis* and *Syphillis Sive Morbus Gallicus*
- An assessment of Fracastoro's use of the concept of contagion in his theory of the origin of the French disease
- Astrology and the divine: Fracastoro's account of the origins of syphilis
- Fracastoro the humanist hero? The morality of syphilis
- Fracastoro's astrology and the French disease
- Lucretius – the sower of Fracastoro's seeds? Fracastoro's theory of contagion and the influence of classical atomism
- The origins of the Great Pox: an analysis of Girolamo Fracastoro's account

### Paper 3: Natural Philosophies: Renaissance to Enlightenment

- Debates over the final reward of John Harrison
- Interpreting the problem of longitude: a study of pamphlets within the context of volumes
- Maskelyne misinterpreted? The Astronomer Royal and the Harrison "affair"
- The importance of William Harrison in securing the Longitude Prize for his father John Harrison: an investigation using different narratives of the Harrison story
- *The Longitudes Examined*: language, structure and satire
- *The Longitudes Re-Examined*: Jeremy Thacker and Pat Rogers' misinterpretation of concealment
- 

### Paper 4: Science, Industry and Empire

- "Thank all the stars in Heaven, Collier has finished his picture & is gone". John Collier's portrait of Darwin and the character of art and science
- A brief analysis of the personal and professional relationship of Charles Darwin and Thomas Campbell
- Darwin and Mivart: their correspondence moving from friends to foes
- Darwinism: natural selection, philosophy and criticism from an unlikely source
- Elephant tears: an evolutionary link for Darwin
- The public and private face of courtship in the early 19<sup>th</sup> century: the correspondence of Charles Darwin and Fanny Owen
- Weaving the threads together: what Darwin's correspondence reveals about his research into silkworms, 1845-1868
- What insight can be gained from the letters exchanged between Charles and Emma Darwin before and after the death of their daughter, Anne?

### Paper 5: Modern Medicine and Biomedical Sciences

- "Love is an art": letters from middle class men to Marie Stopes, 1918-1928
- A critique of Ruth Hall's selection of letters from the clergy in *Dear Dr Stopes: Sex in the 1920s*
- An analysis of whether Ruth Hall's selection of letters for *Dear Dr Stopes* accurately depicts the 1920s and what 1970s issues may have influenced her choices
- An assessment of Marie Carmichael Stopes' strategic position regarding the issue of abortion
- Class representations of male correspondents in *Dear Dr Stopes* (1978)
- How did Marie Stopes create identities and assert her authority through her correspondence?
- How is sexual frustration represented in *Dear Dr Stopes*?
- Representation: are Ruth Hall's selections representative of the working class?

- Representing the clergy: Marie Stopes, Ruth Hall and the archives
- Ruth Hall's creation of Marie Stopes as a medical (anti)hero
- Script, class and sexual fulfilment: the correspondence of Marie Stopes
- Scripts and rhetoric: working class presentation to Marie Stopes
- The business of birth control
- What insight can be gained on Marie Stopes' competitors from the book *Dear Dr Stopes* and is the picture Ruth Hall paints of them an accurate one?

### **Paper 6: Metaphysics, Epistemology and the Sciences**

- Astronomical objects and Hacking's realism
- Does Hacking's experimental realism allow experimenters to achieve certainty of entities' reality?
- Experimental science does not form "the sure basis of an uncontentious realism" (Hacking, 1983, p. 131)
- Is manipulative success a sufficient criterion for entity realism?
- Is the philosophy of Nancy Cartwright more plausible than that of Ian Hacking?
- The case of genes on Hacking's realism criteria of manipulation and use
- The presentation of argument in *Representing and Intervening*
- The rhetoric of Ian Hacking
- What can Hacking and the NOA tell us about reality?

### **Paper 7: Ethics and Politics of Science, Technology and Medicine**

- A retrospective account of *Daedalus and Icarus*, in light of modern sociology of science
- Creation and deicide: the use of mythology in Haldane's *Daedalus*
- *Daedalus, Lysistrata, Hypatia*: futurological visions of women
- *Daedalus*: a man's world
- Haldane's ant-heap: illusions of science-driven moral progress in Haldane's *Daedalus* and *The Last Judgement*
- Haldane's *Cornucopia*: *Daedalus* and the future of food production
- Haldane's *Daedalus*: proto-evolutionary ethics?
- How to solve the threat of the masses: the eugenic visions in *Daedalus* and *Brave New World*
- Religion, morality and ideology in JBS Haldane's *Daedalus*
- Science and the "increase in organisation" in Bertrand Russell's *Icarus*
- Societal divisions: *Daedalus* in the eugenics debate
- The structure of futurological predictions in *Daedalus* and *Icarus*
- *Urania*; or, the compatibility of art and science
- Visions of eugenics in and around JBS Haldane's *Daedalus*

### **Paper 8: History and Philosophy of the Physical Sciences**

- Circular inertia and scientific method in Galileo's *Dialogue*
- Has Feyerabend represented Galileo correctly? Is Galileo involved in ad hoc propaganda?
- Is the world system that Galileo propounds incommensurable from the Aristotelian system?
- Vindicating Feyerabend? Rhetoric and propaganda in Galileo's *Dialogue*

### **Paper 9: History and Philosophy of Science**

- How does Hume's neglect of the physical body impact on his theory of personal identity?
- Hume's identity crisis: an analysis of the empirical basis of his theory of self
- Is Hume's account of the mind in his *Treatise* circular?
- The self: a transcendental condition for memory
- Why Hume's denial of personal identity is a product of his inconsistency
- Why is Hume dissatisfied with his account of personal identity?

### **Paper 10: History and Philosophy of Social and Psychological Sciences**

- Can a legitimate distinction be made between "chemical" and "mechanical" phenomena in Mill's *System of Logic*?
- Does Mill's compatibilism provide an adequate response to the Owenites?
- Hume and Mill on free will: a tale of two compatibilisms

- In Book VI Chapter II of the System of Logic, Mill sets out to make a space for a science of human beings with free will. He formulates a version of a view now known as compatibilism. What sources lie behind Mill's compatibilism and what is its significance?
- Mill's combination and composition: a matter of methodology
- Mill's compatibilism: an architectural appraisal
- The justification of JS Mill's methodological individualism

## Dissertations

- An assessment of the ethical arguments used against offering incentives for kidney donation
- An intelligent fixation: a justification of IQ science
- Averroes: constructing a hero of scientific rationality
- British gems: Redcliffe Nathan Salaman (1874-1955) and Cambridge's Potato Virus Research Institution
- Building Babylon: what the foundation of the Oxford University Museum reveals about changing perceptions of science in the mid-19<sup>th</sup> century
- Cooperation and competition: British science, Europe and the United States in the 1950s and 1960s
- Does Darwin's theory of evolution by natural selection undermine realist theories of value?
- Early modern 'industrial espionage': English attempts to replicate Chinese porcelain, 1650-1700
- From research to reality: the role of the medical research survey in British East Africa, 1945-1963
- Indulging 'collective passions' or protecting 'private passions': Russell's Icarus and the media
- Making ends meet: generating patient understanding in the informed consent process
- Medical ideas on diabetes in 17<sup>th</sup>-century England
- Military history and military medicine: learning from the Great War
- Race and eugenics in Britain in the interwar period
- Religion and witchcraft: attitudes to magic during the early modern period
- "Rent-a-womb": surrogacy in the media in Britain in the 1980s
- Sexual difference in early modern Europe: changing views of women as imperfect men
- The "climategate scandal": what it tells us about science and silence
- The cult of Asclepius: interactions between religious and rational healing in the Graeco-Roman world
- The ethics of child consent in clinical research
- The mathematician's mutiny
- The medical care of horses in England, 1580-1700
- The Sedgwick Club: reassessing the earth sciences, 1918-1947
- Transgenic animals in UK laboratory science
- Unreasonable behaviour: an analysis of conceptions of madness and "the mad" in the 18<sup>th</sup>-19<sup>th</sup> centuries
- Victorian physics and the diffusion of useful knowledge: the lectures on education and the SDUK
- Working class cosmologies as alternatives to evolution in 19<sup>th</sup>-century Britain

# MPhil and Part III Essay and Dissertation Titles

## MPhil Essay and Dissertation Titles

### **Megan Barford**

#### *Essays*

Art, nature, experiment, experience: Pierre Perrault's *De l'Origine des Fontaines* and Edme Mariotte's *Traité de Mouvement des Eaux et d'Autres Corps Fluides* (supervised by Simon Schaffer)

Mythical, atavistic, curious: zoological giraffes at Regent's Park (supervised by Jim Secord)

Finding narratives, performing travel: Robert Brown, regional expertise and Edward Whymper's Greenland expedition, 1867 (supervised by Michael Bravo)

#### *Dissertation*

Knowledge for transit: establishing the New World for navigation and commerce (supervised by Hasok Chang)

### **Riana Betzler**

#### *Essays*

The destabilization of morality: Charles Darwin and Frances Power Cobbe in dialogue on the source of moral authority (supervised by Paul White)

Statistical learning as a mechanism (supervised by Anna Alexandrova)

Constructing a farmer's almanac of mental moods: Ralph Waldo Emerson's "New Metaphysics" in "Natural History of Intellect" (supervised by Nick Jardine)

#### *Dissertation*

The multiple meanings of mechanism: a challenge for the new mechanist philosophy (supervised by Anna Alexandrova)

### **Toby Bryant**

#### *Essays*

Conservative philosopher, revolutionary scientist? Poincaré's conventionalism and the revolution in 20<sup>th</sup>-century physics (supervised by Hasok Chang)

God is a geometer, but is He an aesthician?: McAllister's account of beauty and revolution under the microscope (supervised by Nick Jardine)

Cartwright and Rosenberg: approaches to the mathematisation of economics under analysis (supervised by Anna Alexandrova)

#### *Dissertation*

Does commitment to aesthetic criteria for theory selection undermine the rationalist picture of scientific practice? (Supervised by Nick Jardine)

### **Alastair Cliff**

#### *Essays*

The learned Chirurgeon: the humanist project of the members of the Barber-Surgeons Company in late 16<sup>th</sup> and early 17<sup>th</sup>-century London (supervised by Karin Ekholm)

Aetiology and genre: the Aristotelian medical *Problemata*, their function, form and roots in the Hippocratic *Aphorisms* and *Airs, Waters, Place* (supervised by Liba Taub)

"Unpalatable truths" and fashionable diseases: the work of Dr James Makittrick Adair and medical fantasy in late 18<sup>th</sup>-century polite society (supervised by Emma Spary)

### *Dissertation*

Blood, sweat and licences. The barber-surgeon and their shop: healing, hygiene and sociability in the 17<sup>th</sup> and early 18<sup>th</sup> century London (supervised by Karin Ekholm)

## **Tegan Donnelley**

### *Essays*

“Chafing against each other in a glacier pothole”: science, nature, and the sublime in the *Harriman Alaska Series* (supervised by Jim Secord)

Fletcherism: scientific and “natural” nutrition (supervised by Vanessa Heggie)

Systems biology and pathology: an objection to Christopher Boorse’s biostatistical theory of disease (supervised by Tim Lewens)

### *Dissertation*

Max Perutz: truth, beauty and scientific method (supervised by Hasok Chang)

## **Ruth Ezra**

### *Essays*

Moxon’s Muscovy window: readerly interaction and instrumental glass in the *Practical Perspective* (1670) (supervised by Sachiko Kusukawa)

The rhetoric of the initial: tracing text, image, and putti at play from the *De fabrica* (1543) to the *Osteographia* (1733) (supervised by Karin Ekholm)

“A byword for a rationalist”: Popper’s epistemology in Gombrich’s art history as social science (supervised by Anna Alexandrova)

### *Dissertation*

“Materia Vitriaria” from Hartlib to Sloane: deconstructing glass and building up shards at the early Royal Society (supervised by Sachiko Kusukawa)

## **Sebastian Falk**

### *Essays*

“Something in the world”: looking into a Spanish globe (supervised by Liba Taub)

Roger Bacon: the making of a man of science (supervised by Andrew Cunningham)

Bernal’s great leap: a British scientist and communist China (supervised by Leon Rocha)

### *Dissertation*

Astrolabes in context: a reappraisal of medieval astronomical instruments (supervised by Liba Taub)

## **Florian Ganzinger**

### *Essays*

Duration and spatialised time: Bergson’s concept of time and its encounter with relativity theory (supervised by Hasok Chang)

Fraunhofer and the entanglement of instruments and science (supervised by Hasok Chang)

Un-riddling dreams objectively: an analysis of Freud’s *Interpretation of Dreams* and its critics (supervised by John Forrester)

### *Dissertation*

Totalising Galvanism: J.W. Ritter and F.W. Schelling’s Romantic dialogue on the role of the individual phenomenon within a holistic (supervised by Nick Jardine)

## **Natalie Harries**

### *Essays*

Is the periodic table of elements reducible to quantum mechanics? (Supervised by Hasok Chang)

Neuroprediction and the amendment of criminal liability (supervised by David Feller)

Purging the body: Galenic vs iatrochemical views in early modern England (supervised by Jenny Rampling)



*Dissertation*

The chemical bond: innovation and plurality in pedagogy, 1912-1939 (supervised by Hasok Chang)

**Andrea Kennedy**

*Essays*

Species of madness: puerperal insanity and female masturbation in the Victorian insane asylum (supervised by Paul White)

The beauty of Victorian beasts: illustration in Rev. J.G. Wood's *Homes Without Hands* (supervised by Jim Secord)

Domestic chemists: servant science in the Victorian country house (supervised by Peter Mandler)

*Dissertation*

W.T. Stead's new journalism and alternative medical campaigns, 1890-1912 (supervised by Vanessa Heggie)

**Grace Kim**

*Essays*

"Imaginative compositions": reproductions of Muybridge's horse in the illustrated newspaper press, 1879-1889 (supervised by Jim Secord)

Variations on the erotic neck: Man Ray and John Lizars (supervised by Chitra Ramalingam)

Shifting spaces, unstable walls: adapting a science laboratory for HPS (supervised by Jim Secord)

*Dissertation*

Frames of longitude: narrative, image, performance (supervised by Hasok Chang and Simon Schaffer)

**David Liebers**

*Essays*

Inventing ELSI: defining the purpose of the Human Genome Project's Ethical, Legal and Social Issues branch (supervised by Nick Hopwood)

"Entirely devoted to birds": Alfred Newton and defining ornithology, 1853-1893 (Jim Secord)

Freud and the "stone age mind": an assessment of Freud's reliance on Lamarckianism (John Forrester)

*Dissertation*

Dual-inheritance theory and its evolutionary psychology problem (supervised by Tim Lewens)

**Matthew Meizlish**

*Essays*

Self as non-self? Burnet's model of "selfhood" in the cancer immunology community, 1949-1970 (supervised by Nick Hopwood)

Mechanistic models and the predictive value of analogy: a dynamic picture of discovery in molecular biology (supervised by Anna Alexandrova)

It's all one function after all: distinguishing the metaphysical, epistemic and pragmatic dimensions of biological functions (supervised by Tim Lewens)

*Dissertation*

Clash and complement: Frank Macfarlane Burnet, Peter Brian Medawar and the philosophical foundations of scientific discovery (supervised by Hasok Chang)

**William Peden**

*Essays*

How does economic history progress? Are laws, and deductions from laws involved? (Supervised by Anna Alexandrova)

Is Milton Friedman's methodology of economics compatible with his practice of economics? (Supervised by Anna Alexandrova)

The problems of using the economics of happiness for policy (supervised by Anna Alexandrova)

### *Dissertation*

Huw Price's critique of object naturalism (supervised by Tim Lewens)

## **James Poskett**

### *Essays*

Bumps across borders: towards a transnational historiography of phrenology c. 1838 (supervised by Jim Secord)

Sounding in silence: the mechanics of discipline in the early 19<sup>th</sup>-century Royal Navy (supervised by Simon Schaffer)

Testimony *rather than* what? A contrastive account of testimonial inference to the best explanation (supervised by Hasok Chang)

### *Dissertation*

Intimate access: the uses of dream analysis in British psychotherapy, c. 1945-c.1960 (supervised by John Forrester)

## **Rahul Rose**

### *Essays*

The anxiety surrounding overspecialisation: an examination of the *Scientific Monthly* from 1946-1950 (supervised by Katy Price)

Semantic information in genetics: a metaphorical reading (supervised by Tim Lewens)

The ontology of imaginary model systems (supervised by Anna Alexandrova)

### *Dissertation*

Clements Robert Markham and the heterogeneous space of the Royal Geographical Society: making hybrid geographies in the 19<sup>th</sup> century (supervised by Rohan Deb Roy)

## **Simone Schleper**

### *Essays*

The transhumanist debate: toward a more fruitful discussion about human enhancement (supervised by Stephen John)

*Phillips' Popular Manikin*: the culture of flap anatomies around 1900 (supervised by Salim Al-Gailani)

The "gendered science" of nutrition: implementing and establishing nutrition science in turn-of-the-century American homes (supervised by Vanessa Heggie)

### *Dissertation*

Doctors, gymnasts and teachers: Physical Education in English state-aided schools, 1890-1914 (supervised by Vanessa Heggie)

## **Thomas Welch**

### *Essays*

A peculiar individual? Thomas Robinson and normal understanding of the Earth, 1690-1719 (supervised by Simon Schaffer)

Knowing and time: the "dangers" of anachronism in the history of science (supervised by Nick Jardine)

A "morbid fascination": doctors and the dangers of drugs in 19<sup>th</sup>-century Britain (supervised by Vanessa Heggie)

### *Dissertation*

An educative discipline: Herbert Butterfield, *The Origins of Modern Science* and the permeability of disciplinary boundaries in Cambridge HPS, 1945-1965 (supervised by Nick Jardine)

## **Harry Wooler**

### *Essays*

Purity and contamination: human growth hormone purification and the MRC in the UK, 1969-1989 (supervised by Nick Hopwood)

"Not separate or separable": Lady Anne Conway (1631-1679) as metaphysician, theologian and natural philosopher (supervised by Jenny Rampling)

Monism, reductionism and unification: the case of Paul Carus (supervised by Hasok Chang)

*Dissertation*

Biography and the mid-Victorian science of character (supervised by Paul White)

## **Part III Essay and Dissertation Titles**

### **Faraz Dianat**

*Essays*

The right mind: on the form and legitimacy of evolutionary psychology (supervised by Nick Treanor)

The realism debate in light of the base-rate fallacy (supervised by Anna Alexandrova)

*Dissertation*

Treatment versus enhancement: reconstructing the moral import of the distinction using risk and precaution (supervised by Tim Lewens)

### **Charlotte Granville**

*Essays*

Examining the extent to which the secondary literature on Cicely Saunders can be used to engage with her overall belief system (supervised by Stephen John)

Examining NICE's rejection of Avastin as a case study of whether NICE's decisions reflect public opinion (supervised by Stephen John)

*Dissertation*

Examining the early development of the Hospice Movement as part of broad conceptual changes in the view and voice of the patient and the dying, with a focus on the writing of Cicely Saunders (supervised by John Forrester)

### **Karina Kumar**

*Essays*

Placing race: ideas of climate and race, c. 1750-1850 (supervised by Rohan Deb Roy)

The poet's proposition: an investigation into Abraham Cowley's "Proposition for the Advancement of Experimental Philosophy" (1661) (supervised by Richard Serjeantson)

*Dissertation*

Race and colour in the journals of the Royal Asiatic Society (supervised by Rohan Deb Roy)

### **Rory Nath**

*Essays*

Science and transnationalism in the Indian Ocean, 1789-1914 (supervised by Sujit Sivasundaram)

What did "scientific naturalism" mean to Thomas Henry Huxley? (supervised by Paul White)

*Dissertation*

Mauritius on display: exhibitions, "improvement" and the politics of Mauritian science, 1846-59 (supervised by Sujit Sivasundaram)

### **Lowri Richards**

*Essays*

"Method in madness?" An examination of critical readings (in English) of Michael Foucault's *History of Madness* (1961, 2006) (supervised by Deborah Thom)

Images of hunger: a case study of the Bengal famine, 1943-44 (supervised by Rohan Deb Roy)

*Dissertation*

Feeding the nation, nourishing the empire: diets in 19<sup>th</sup>-century British institutions (supervised by Rohan Deb Roy)

## **Reuben Shiels**

### *Essays*

Defining “organism” (supervised by Jonathan Birch and Hasok Chang)

Perceptual incommensurability: a second look (supervised by Hasok Chang)

### *Dissertation*

Natural Selection reconsidered (supervised by Tim Lewens)

## **Jack Stevens**

### *Essays*

Materialism in 19<sup>th</sup>-century physics: social, metaphysical and conceptual groupings (supervised by Chitra Ramalingam)

P.G. Tait in the periodical press: science education and cultural authority, 1860-1878 (supervised by Chitra Ramalingam)

### *Dissertation*

Negretti & Zambra’s scientific instruments: a new dimension to the Victorian culture of travel (supervised by Melanie Keene)

## **Tillmann Taape**

### *Essays*

Public images of clones (supervised by Nick Hopwood)

Guaiac wood: constructing a Galenic cure for the French pox (supervised by Karin Ekholm)

### *Dissertation*

Vernacular distillation: Hieronymus Brunschwig’s *Liber de arte distillandi* (supervised by Elaine Leong and Jenny Rampling)

## **Oliver Watson**

### *Essays*

The impact of Darwinian ideas on moral realism (supervised by Kevin Brosnan)

A.O. Hume: congress and ornithology in colonial British India (supervised by Rohan Deb Roy)

### *Dissertation*

David Ferrier: localising brain functions in Victorian Britain (supervised by John Forrester)

# PhD Theses

## Awarded

### **Geoffrey Belknap**

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

### **Joanna Burch Brown**

‘Consequences, Action Guidance and Ignorance’  
(Supervised by Tim Lewens)

### **Mirjam Brusius**

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

### **Yoon Choi**

‘Kant’s theory of self-consciousness’  
(Supervised by Onora O’Neill and Nick Jardine)

### **Susannah Gibson**

‘The pursuit of nature: defining natural histories in 18<sup>th</sup> century Britain’  
(Supervised by Jim Secord)

### **Natasha Goldberg**

‘Selfish genes and nature’s joints: the role of metaphor in the realism/relativism debate 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 Eleanor Robson)

### **Boris Jardine**

‘Scientific Moderns’  
(Supervised by John Forrester)

### **Alexander Wragge Morley**

‘The Work of Representing Natural Things in England 1650-1720’  
(Supervised by Simon Schaffer)

### **Joe Sandham**

‘Worlds Apart: A Defence of Nelson Goodman’s Handling of Induction in the Context of his Wider Philosophy’  
(Supervised by Martin Kusch)

### **Katie Taylor**

‘Communicating mathematics through vernacular books in Elizabethan England’  
(Supervised by Nick Jardine)

### **Nicholas Teh**

‘On topological Objects in Field Theory’  
(Supervised by Jeremy N Butterfield)

### **Julie Walsh**

‘Narcissism and its discontents’  
(Supervised by John Forrester)

**Billy Wheeler**

‘The metaphysics of ideal laws: a Humean account’  
(Supervised by Tim Lewens)

**Nick Whitfield**

‘A genealogy of the gift: blood donation in London, 1921-1946’  
(Supervised by Nick Hopwood)

**Submitted****Caitlin Wylie**

‘Invisible technicians: a sociology of scientific work, workers and specimens in paleontology laboratories’  
(Supervised by Jim Secord)

**Carl Fisher**

‘Early Darwinian commemoration in Britain, 1882-1914’  
(Supervised by Jim Secord)

# The Library

Through its diverse activities during 2011-12 the Whipple Library has shown itself to be adaptable and responsive to the evolving demands of modern academic libraries. In addition to maintaining a strong collection in the History and Philosophy of Science in print and electronic form, staff now provide a wide range of support services, from curating and promoting our special collections as a teaching and research resource, to enabling remote learning by making material available via CamTools. Good links with the Department help to ensure that the collection remains relevant to the teaching and research needs of its members, and that the Whipple retains its long-standing reputation as a nationally significant library in the subject.

Tim Eggington left after seven years as Whipple Librarian to take up the post of Librarian at Queens' College in November 2011. Much credit and sincere thanks are due to Dawn Moutrey who served as Acting Librarian for the remainder of the Michaelmas Term and throughout the following Lent Term, and to Agnieszka (Aga) Lanucha who worked a higher proportion of her usual part-time hours in the Library to assist during this period. Anna Jones arrived from Wolfson College to take up the post of Librarian at the start of the Easter vacation, and is grateful for the warm welcome she has received, and for Dawn and Aga's patient assistance as she learns the ropes.

## Library usage

Of our 1007 registered users, 596 borrowed 7841 items and requested 4355 renewals during the year. Undergraduates represented the largest group of borrowers (53%), recovering after a slight dip in 2010-11 (39%), when scanned copies of undergraduate reading list material was first made available via CamTools, and the UL first introduced borrowing to undergraduates in all years. The proportion of loans made to postgraduates correspondingly fell in 2011-12 (31%) compared with 2010-11 (42%). The overall trend in total circulation figures is downwards, which is only to be expected as more material is provided via electronic subscription or scanned for delivery via CamTools, but in the absence of equivalent data on the use of e-resources it is not possible to demonstrate this in concrete terms.

## Acquisitions

671 new items were added to the Library collections in 2011-12, including 106 designated for the Store. The Whipple's monthly new accession list continues to be valued within and beyond the Department, and is still distributed by email and via the Library website. Dustjackets of new hardbacks are now displayed on the Departmental noticeboard on the stairs the first half-landing, and an equivalent gallery published online via *Pinterest* (see below). Information about titles newly published was distributed to the Executive Committee electronically from April, which we hope will help speed up the process of recommendation and acquisition.

## Donations

Two notable donations of material for the Library's special collections were made during the year. The first was a small selection of early twentieth-century books on phrenology sometime belonging to father and son William and George Metcalfe of Redcar, and donated by their descendants Paul Metcalfe and Fiona Peel. Four of the items contain inscriptions and/or letters by J. Millott Severn, sometime President of the British Phrenological Society and previous owner of several items in the Whipple's existing phrenology collection. A new exhibition of highlights from this collection, to include some of the Metcalfe material, is planned for the Michaelmas Term 2012.

The second donation was of three historical medical volumes from the library of Dr John Kerr Butter (d. 1920), a physician of Cannock, Staffordshire, donated by the descendants of the successors to Dr Butter's medical practice. The Smith family had previously donated 29 volumes to the Whipple in 2005, and the latest gift completes Kerr Butter's set of Hutchinson's *Illustrations of Clinical Surgery* (1888), and also includes a copy of the third edition of William Buchan's *Domestic Medicine* (1774) and *Three exact pieces of Leonard Phioravant* ([1652]). Both the latter volumes are in a poor state of repair and will require conservation work in due course, but we are most grateful to Mr John Smith and his wife for making these texts available to us and hope that readers will benefit from the contents in due course.

Several members of the Department past and present donated copies of newly published work to the Library during the year, for which we are grateful.

## **Journals**

University-wide access to journal content online is negotiated centrally by the Journals Co-ordination Scheme, of which the Whipple is a member. Increasingly the best deals offered to academic institutions by large-scale publishers are for e-only access, which in Cambridge means that individual libraries must stop any hard copy subscriptions to titles covered by such deals. After widespread consultation with librarians and the academic community, the University entered into e-only agreements with ScienceDirect (Elsevier) and Wiley-Blackwell from the start of 2012, having secured assurances, as far as possible, of the safety of perpetual access to electronic backfiles, independent of a current subscription. Six of the Whipple's hard copy journal subscriptions from 2011 were affected by the deal, notably *Studies in History and Philosophy of Science, A, B & C*, which has important historical associations with the Department. The Whipple Library Committee discussed the relative merits of maintaining a complete hard copy archive of titles with particular Departmental associations at its Easter Term meeting. A decision on whether to maintain hard copy subscriptions (at additional expense) to a list of 'core' titles drawn up as a result of those discussions will be taken in the Michaelmas Term.

## **Ebooks**

Management of the ebooks@cambridge service moved from a representative committee of the contributing libraries to the University Library from August 2011. The Whipple contributed £250 to the central ebooks fund in 2011-12, and a total of £1173.74 (including contributions from the colleges, UL and Isaac Newton Trust) was spent on HPS titles by the administrators during the year, equivalent to 1.76% of the total spend by ebooks@cambridge. In addition, some of the titles purchased with money from the Connell Fund (a donation for the purchase of material in the Human Sciences, including Philosophy) will have benefitted the HPS community by association.

The UL ebooks team has been most helpful in offering time and expertise to check the availability of key HPS titles as ebooks during the year, and maintains a wish-list of highly desirable HPS titles for purchase as and when they become available. Scanning for CamTools has significantly improved access to texts (single chapters and articles not otherwise available electronically) in high demand, but copyright restrictions on scanning multiple chapters in a monograph or multi-essay volume mean that the ebook format is considerably more advantageous as a means of providing online access to reading list material since it makes available the full text. We will continue to monitor the availability as ebooks of titles in the 'Reserve' collection and make purchases where appropriate, in consultation with the associated teaching staff.

## **Special collections**

Staff turnover meant that it was only possible to stage one exhibition in the Library display cases this year, rather than two as in previous years. 'The Steel Hand in the Velvet Glove', an exhibition of books used for the training and teaching of nurses, curated by Dawn Moutrey, was on display from February 2012, and a selection of images are available online at <http://www.hps.cam.ac.uk/library/nursing/>

Whipple Library material was again used to illustrate two sessions on 'How to use printed books as original sources' offered as part of the Graduate Training programme in the Lent Term. The seminars were run by Roger Gaskell and Jim Secord, and we are grateful for their help in ensuring that the sessions continued despite the interregnum between Librarians, since they provide an important opportunity fulfil our mission to use our founding collections for teaching purposes.

A redundant radiator was removed from the Library's special collections store during the summer to help make space for improved shelving to accommodate oversize material. We hope that in due course this will enable us to store more large volumes horizontally, and thus limit the damage to their spines when not sufficiently supported vertically.



## Social media

The Whipple Library Books Blog (<http://whipplelib.wordpress.com/>) aims to highlight items of particular and topical interest from our special collections to a wider audience, including material that can't easily be displayed on exhibition due to its value or physical condition. Prominent among this year's postings were Dawn's contributions to the blogging project accompanying the University Library's *Shelf Lives* exhibition.<sup>1</sup> *Shelf Lives: Four hundred years of Collectors and their Books* ran from 18 January to 16 June 2012 and featured ten collectors whose deposits have significantly enhanced the UL's holdings. Other libraries in Cambridge associated with notable book collectors were invited to contribute to the exhibition blog, and Dawn took up the challenge on behalf of the Whipple with three short articles on the collecting activities of Robert Whipple and George Bidder, and an overview of the Steward Collection. Other posts for the Whipple blog during the year featured a new acquisition by the Revd J. G. Wood, Jeremiah Horrocks's observation of the first recorded Transit of Venus in 1639, and a look inside Benjamin Martin's *Natural History of England*. Particular thanks to guest bloggers James Poskett, Sean Dyde and Andrea Kennedy for their contributions.

@hpslib helped disseminate information about internal library matters and feeds from the Cambridge Library network and the wider HPS community to 186 followers of the Whipple Library on Twitter, who, analysis shows, represent very diverse interests, mostly beyond the confines of the Department.

Following the successful display of dust jackets from new hardbacks on the Department noticeboard on the stairs to the first landing (with thanks to Aga for conceiving and implementing the idea), the Whipple Library now has a *Pinterest* account to display covers for its new acquisitions online. Visit <http://pinterest.com/hpslib/> to view a monthly pinboard of new acquisitions, a display of HPS-related ebooks provided via [ebooks@cambridge](mailto:ebooks@cambridge) and, coming soon, the covers of books published by members of the Department.

## Training & Staff development

The library community in Cambridge continues to benefit from a wide variety of local training and networking opportunities. A new grass-roots initiative in 2011-12 was the Penumbra Work Shadowing Scheme, designed to allow members of library staff at all levels the chance to shadow a colleague in a different setting over a half-day. Aga successfully applied for a placement at the Classics Faculty Library in the Easter Term, and describes her experience on the Penumbra blog.<sup>2</sup> Dawn represented the Whipple at the annual *libraries@cambridge* conference held at the music Faculty in January, 'Blue skies...thinking and working in the cloud', which included a keynote presentation by Deborah Shorley, Director of Library Services at Imperial College London. The Department hosted the monthly librarians' brown bag journal discussion lunch in July, which considered a recent report commissioned by academic publishers SAGE on 'Working together: evolving value for academic libraries'.

Anna visited colleagues in the departmental libraries at Zoology, Experimental Psychology, and the Faculty of Philosophy, and had fruitful discussions with Yvonne Nobis, Head of Science Information Services on a tour of the Central Sciences Library during the Easter Term. She attended three sessions in the UL's Incunabula Masterclass series, including presentations on fifteenth-century medical books by Peter Jones and techniques of illustration in incunabula by Roger Gaskell. She was grateful for Departmental support also to attend two workshops hosted at the British Library by the Preservation Advisory Centre, one on using the Preservation Assessment Survey tool which is now commonly expected as a prelude to funding applications for conservation work, and the other on 'Understanding and caring for bookbindings'.

## Affiliation

All but three department and faculty libraries in the School of Humanities and Social Sciences have joined the new category of 'Affiliated Library' under the auspices of the University Library from August 2012. It is understood that the Whipple is to be invited to join the group (along with the Haddon Library of Archaeology and Anthropology and the Faculty of Education Library) from August 2013, and we look forward to hearing more about the process and the implications for the services we offer during the coming transitional year. The new category and management structure is in response to recommendations made in the General Board's Review of Teaching and Learning Support Services (2008), which envisaged a more central role for the University Library in providing

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<sup>1</sup> [http://www.lib.cam.ac.uk/exhibitions/shelf\\_lives/index.html](http://www.lib.cam.ac.uk/exhibitions/shelf_lives/index.html)

<sup>2</sup> <http://laciata-cam23.blogspot.co.uk/2012/06/beneficial-experience.html>

library services across the University. It is hoped that the sought-for benefits to users of better coordination and greater standardization of services can be achieved while the Whipple retains its close ties to the Department which ensure the strength of its collections and its relevance as a teaching and research resource.

*Anna Jones  
Whipple Librarian  
September 2012*

The Whipple Museum of the History of Science is sharing in the award of Arts Council England funding as part of the bid submitted by the University of Cambridge Museums (UCM). The Connecting Collections programme includes all of the UCM and runs from April 2012 until March 2015. This funding will allow the Whipple to recruit a Learning Co-Ordinator, a post long overdue at the Museum. Special thanks are given to Liz Hide and Kate Carenno for facilitating the funding bid.

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## Special Projects

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### Gallery Development

#### Refurbishment of the Main Gallery

The Main Gallery re-opened in January 2011 following a major refurbishment, accomplished with funding from the School of Humanities and Social Sciences and DCMS/Wolfson. The cases allocated to the Board of Longitude project have now been completed and all that remains to be done now are a few 'tweaks' such as the purchase of a new desk for the Gallery Attendant and the completion of the labels for the *From Generation to Reproduction* project case.

#### The Upper Gallery

September 2012 saw the beginning of the re-development of the Upper Gallery. The Globes exhibition that was previously held here was extremely popular with visitors, so we are now working on a more permanent display of the Whipple's diverse collection of terrestrial, celestial, lunar and Martian globes and other planetaria. Part-financed by a grant from the DCMS/Wolfson fund, the refurbishment has allowed us to purchase new 'modular' display cases which show off the globes to greater effect.

#### Storage

In 2011 we purchased new 'visible storage' cabinets for the Reserve Gallery. The Whipple has been awarded a grant of £18,500 by the School of Humanities and Social Sciences in order to purchase more of these cases. These will primarily be placed in Store 1b and will protect the objects from any problems that may occur with the air conditioning units for Seminar Room 2, whose ductwork goes through the space. In the longer term, we hope that this sub-optimal space can be redeployed for a more suitable purpose. This is contingent on the provision of more and more suitable storage space which is a pressing, strategic need.

## Exhibitions

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### The Acoustical Experiments of Lord Rayleigh

As part of the 350<sup>th</sup> anniversary of the Royal Society, the Whipple Museum chose Lord Rayleigh to be its 'Local Hero'. Rayleigh's extensive involvement in the University of Cambridge (as student and Fellow of Trinity College and Chancellor of the University), together with his work in the science of acoustics (the focus of the Museum's Science of Musical Sound project), made him an ideal choice.

The exhibition displays homemade apparatus from Rayleigh's workshop at Terling Place, Essex. These objects, used in many of Rayleigh's seminal experiments, have not previously been on display. Indeed those objects that had remained at Terling have barely been handled since Lord Rayleigh's death in 1919.

This exhibition presents an accessible summary of Rayleigh's life and achievements, with particular focus on his acoustical experiments. These experiments formed the backbone to his writing on the subject, much of which remains relevant in the field of acoustics to this day.

This exhibition was due to finish on 30<sup>th</sup> April 2012, but has been extended until June 2013 when Salim Al-Gailani's exhibition about Kitchen Chemistry will be installed.

## Outreach Events

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The following events were supported by funding from the Community Learning and Outreach fund, made possible by a grant from MLA Renaissance East of England [<http://www.renaissance-east.org.uk/>]:

### Festival of Ideas

In October 2011, the Whipple held five events as part of the University's Festival of Ideas.

The 19<sup>th</sup> October saw the official opening of the exhibition 'The Acoustical Experiments of Lord Rayleigh'. The attendees of this event were joined by the current Lord Rayleigh, his family and Professor Edward Davies. The current Lord Rayleigh, Professor Jim Secord (Department of History and Philosophy of Science), Professor Liba Taub (Director and Curator of the Whipple Museum of the History of Science) and Professor Edward Davies (Department of Physics and Astronomy, University of Leicester) all spoke at the event.

On 21<sup>st</sup> October, Dr Jeremy Butterfield and Dr Nazim Bouatta gave a talk entitled 'A philosophical quantum revolution'. They asked questions such as: 'What happens to an atom if you keep splitting it?' and 'How can philosophy have anything to do with the answer?' This event was so popular that it was repeated on 26<sup>th</sup> October.

Live performances and sound installations provided the background for a special late night opening of the museum galleries on the 24<sup>th</sup> October. The 'Access all Archives! Sights and Sounds' event was run in association with the Museum of Zoology, The Polar Museum, Sedgwick Museum of Earth Sciences and The Fitzwilliam Museum. As described by the composers, the Main Gallery of the Whipple was 'transformed into the belly of an imaginary machine. A sonorous, cyclic automaton nestled amongst years of scientific detritus: an installation inspired by the modern replica of Richard of Wallingford's 11th century astronomical clock. The sound piece was itself a replica of sorts; intricate mechanical processes were gradually unhinged and reassembled.' This piece was composed specifically for the Whipple by two members of the University of Cambridge's Music Faculty, Lawrence Dunn and Oscar Dub.

The Whipple Museum's Poet-in-Residence, Kelley Swain, teamed up with Laura Dietz from Anglia Ruskin University on 27<sup>th</sup> October for the event 'Incredible: stories in Science'. The event was one of a series of creative writing workshops. Participants worked with the stories of scientists who changed our ideas of the possible. They were encouraged to create their own poetry and fiction, inspired by items from the Whipple collection.

'Roger go to yellow three', held on 28<sup>th</sup> October, was an original vocal and dramatic work by Christopher Fox and Edward Wickham performed by the award-winning vocal ensemble The Clerks. The work explored the science of 'auditory streaming', the function of hearing which enables us to pick out a single conversation in a crowded room. Over 60 people attended, who themselves became subjects of research by filling out questionnaires based on what they were able to hear.

# Twilight at the Museum

At 4.30pm on 15<sup>th</sup> February 2012 the lights were dimmed for Twilight at the Museums. Armed with torches, visitors (especially the very young) enjoyed an unusual and atmospheric experience. A navigation-themed trail led visitors around the galleries towards a secret codeword written in UV ink hidden within the newly refurbished Main Gallery. If they were successful in finding the codeword, they could claim a prize from one of the Whipple staff members. This was an extremely popular event with 462 people attending over the course of the evening.

## Cambridge Science Festival

In March 2012, the Whipple held five events as part of the Cambridge Science Festival.

On Wednesday 14<sup>th</sup> March, the Whipple hosted a poetry outreach event based around ‘The Rules of Form: Sonnets and Slide Rules’. This event was organised, and in some cases presented, by our Poet-in-Residence Kelley Swain. There was a poetry reading by Lesley Saunders who has written sonnets using objects within the Whipple’s collection as inspiration and talks by Dr Joseph Crawford (Research Fellow in English at Murray Edwards College, University of Cambridge) and Joanna Walsh (writer and blogger) under her pen name Badaude. The Whipple provided an inspiring environment and this event represented the Whipple’s collection in a new and innovative way that appealed to visitors who find it difficult to visit the museum during its normal opening hours.

*Feedback for The Rules of Form: Sonnets and Slide Rules:*

‘Surprised (happily!) that there was less ‘show and tell’ and more philosophy.’

‘All very interesting.’

‘A stimulating, lively set of talks...I found it challenging.’

‘Liked depth of programme.’

‘Sonnets was fascinating.’

The Whipple Museum was open on Saturday 17<sup>th</sup> March as part of the interdisciplinary Science Festival celebrating the University’s contributions to Science. This was part of the Whipple’s continuing involvement with the Science Festival and it formed part of the Museum’s on-going outreach programme.

Opening the museum on a Saturday provided an opportunity for the Museum to expand its audience. Saturday openings have always been hugely popular and visitor feedback has shown an increasing demand for outreach of this kind. By offering events based on children’s handling activities, we attracted a new audience of first-time visitors who did not know the full extent of what the museum and its collection has to offer and who hopefully felt inspired to visit the museum again in the future. 259 people visited the museum during the day.

*Feedback for Saturday Opening:*

‘People explaining themselves and their work is great.’

‘Lecturers having time to talk to mere mortals.’

‘Hands on exhibits for my 6-year-old son. Very good.’

‘Very helpful and informative staff.’

‘I like how you could get involved!’

‘The computer was great as it gave me much more information.’

‘There was a very wide range of very interesting objects.’

‘I loved it, it was amazing and educational.’

‘Very hands on. The Victorian Globe Gallery.’

‘It was lovely.’

‘Nice to see instruments and models of all ages.’

‘Fungus models were beautiful.’

‘Space, Time and Philosophy’ took place on Tuesday 20<sup>th</sup> March and the Whipple had the great pleasure of welcoming back Drs Jeremy Butterfield and Nazim Bouatta. The academics discussed concepts such as ‘What is Space?’ and ‘What is Time’ and asked the audience whether it was possible to imagine anything outside of these concepts. By using a mix of physics and philosophy (and a guest appearance from Albert Einstein!), they aimed to shed some light on these questions. This event attracted a variety of attendees from home-schooled students,

foreign students and academics to other interested individuals. Indeed, the event proved so popular that it was re-run on Tuesday 27<sup>th</sup> March.

*Feedback for Space, Time and Philosophy:*

‘Very enjoyable.’

‘Clear and well-explained. Very thought-provoking. Interesting Q&A session.’

‘Introduced a lot of new ideas in a thought-provoking way.’

‘Interesting but difficult.’

‘Really enjoyable listening to real life scientist.’

‘All events have excellent organisation – how do you do it!? Science Festival gets better every year – thank you! The University has made great strides in the last 5 years to have events that appeal to residents and bridge the ‘town and gown’ gap.’

Our Music at the Whipple: Theremin Concert took place on Friday 23<sup>rd</sup> March 2011 and featured performances from Thereminists Charlie Draper and Lydia Kavina. The Whipple was thrilled to have Lydia perform at the Whipple, as she is an internationally recognised virtuosa and the grand-niece of Leon Theremin, the instrument’s inventor. With the help of piano accompaniment and a narrator, they told the story of Leon Theremin and the birth of this remarkable instrument. They played an eclectic mix of music from classical (including Elgar’s Cello Concerto and Delibes’s *Flower Duet*) to TV themes such as Star Trek. The players were delighted to showcase what this magnificent instrument can really do in the historic setting of the Whipple Museum’s Main Gallery. This event was aimed at adults and allowed visitors to listen to this instrument whilst surrounded by other scientific instruments.

*Feedback for Music at the Whipple: Theremin Concert:*

‘Excellent performances.’

‘Theremin concert absolutely amazing!’

‘This was a fantastic event – many thanks. A rare opportunity to see this unusual instrument being played.’

‘Excellent.’

‘Very nice. Has far exceeded my expectations.’

‘Excellent show!’

‘Loved the combination of music and the story!’

‘I’d just like to say how much I enjoyed the Theremin performance on Friday evening. It was an unexpected pleasure to find that Lydia Kavina was one of the performers too! I thought the format of narration and presentation interspersed with the performances worked really well, and it was nice to have it in the intimate surroundings of the museum also. If you have the means, please pass on my thanks to the organisers and performers.’

## Summer at the Museums

On 13<sup>th</sup> August the Whipple Museum joined forces with the Museum of Archaeology and Anthropology (MAA) for a ‘Summer at the Museums’ event. Heather Donoghue set up MAA’s Cabinet of Curiosity in the New Gallery and encouraged the children to examine and draw their favourite objects. There were also colouring sheets and paper plate Maori masks for children to make and colour.

On 20<sup>th</sup> August, Heather Donoghue returned to the Whipple and held a ‘Make Your Own Panpipe’ event. She brought some musical instruments from MAA and some ‘Make Your Own Windchimes’.

These events also tied in with the ‘Draw What You Saw’ competition which was rolled out across 12 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 picked up a laurel leaf headband. The best drawings were 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 7<sup>th</sup> September, the Whipple’s Claire Wallace (assisted by Ruth Horry) led two pre-booked tours and object handling sessions.

The Museum was also open on Saturday 8<sup>th</sup> September allowing visitors to explore the Whipple's collections and investigate how some of our objects work using the handling trolleys. Ruth Horry conducted tours throughout the day.

## **Other Events**

### **Private Events**

On 5<sup>th</sup> July 2012 the Whipple hosted its first private event. A 'Human factors and medical devices' seminar run by a local company for interested individuals in the field of medicine in and around Cambridge. This event was followed up by the Joint Meeting of the Digital HPS Consortium and the Cambridge Digital Humanities Network on 6<sup>th</sup> September. Both of these events earned the museum some extra money and we're glad to have the opportunity to use this money towards new case linings throughout the galleries.

### **SHARE course**

On the 24<sup>th</sup> February 2012, one session of the six week 'Understanding Museums' course ('Ethics of collecting and display') organized by SHARE (Renaissance) was held in the New Gallery.

### **Book Launches at the Whipple**

On the 4<sup>th</sup> November 2011, the publication of Sadiya Qureshi's book 'Peoples on Parade: Exhibitions, Empire and Anthropology in Nineteenth-Century Britain' was celebrated in the Main Gallery with an evening drinks launch.

Hannah Newton's book 'The Sick Child in Early Modern England, 1580-1720' was launched in the New Gallery on 25<sup>th</sup> April 2012.

### **Special Visits**

Tamara Hug, the HPS Departmental Administrator, used the Whipple Museum to host the School Administrators Meeting on 2<sup>nd</sup> December 2011.

In April 2012 Ruth Horry and Josh Nall hosted a tour and object handling session for History students attending a University Schools Liaison Summer School and in August Claire Wallace welcomed a group of US undergraduate students being hosted by Gonville and Caius College.

On 29<sup>th</sup> May, Hedley Swain (Arts Council England) visited the Whipple. He was visiting all University of Cambridge Museums prior to the announcement of the Arts Council Funding results.

On 7<sup>th</sup> June the Whipple's Director and Curator, Professor Liba Taub, hosted a visit of the new Chair of the Joint Museums Committee, Jennifer Barnes.

### **Television, Radio and Magazine Appearances**

The BBC visited the Museum on 12<sup>th</sup> April 2012 to film a segment for the upcoming BBC4 series 'Great Excavations'. Presenter and archaeologist Richard Miles was filmed operating the Whipple's new Nairne and Blunt orrery and looking through a selection of our microscopes.

On 2<sup>nd</sup> May, Jenny Rampling was interviewed by BBC4, talking about alchemy, for a programme on 'The History of Colour – Gold'.

HPS's Salim Al-Gailani was interviewed in the New Gallery by BBC Radio 4 about his research on 1950s Chemistry Sets on 14<sup>th</sup> May.

IWC Media filmed part of a programme called 'Inside the Mind of Leonardo' on 24<sup>th</sup> May and an Australian film company shot an interview for a programme called 'Oh my stars!' on 3<sup>rd</sup> July.

On 20<sup>th</sup> June the BBC were filming for 'Celebrity Antiques Road Trip' and the Whipple played host to former Olympian Tessa Sanderson and antiques expert, the late David Barby. Ruth Horry and Josh Nall were the on-screen Whipple representatives and the programme is due to air at 7pm on Friday 23<sup>rd</sup> November as part of Children In Need.

In the January-February 2012 edition of *Popular Astronomy*, the Whipple's Claire Wallace appeared in a photograph holding one of the Museum's astrolabes and on January 6<sup>th</sup>, a picture of the Auzoux horses teeth featured in *The Metro*. The horses teeth story was subsequently picked up by a German newspaper and also a Polish website.

On 6<sup>th</sup> September the Whipple Museum was reviewed in *Eureka* magazine (supplement in *The Times*) by Tom Whipple. The Museum was described as 'a lighter, brighter and considerably more inviting attraction' following its 2010 refurbishment.

## Teaching and Research

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### Departmental Teaching

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

### Visits from other institutions:

On the 1<sup>st</sup> May 2011, Claire Wallace hosted a group from the Cambridge Philosophical Society. The visiting scholars all had Henslow Fellowships and visited to look at botanical drawings by Henslow. May also saw visits from Pembroke College and the Cambridge Young Astronomers. In July Anne Harrington brought a group of Study Abroad students from Harvard University to look at the Whipple's collection of phrenological heads.

### Student and Staff Research

On 26<sup>th</sup> September, the Whipple Museum hosted an object handling session for Trinity Hall Natural Science 1<sup>st</sup> Year students, on 16<sup>th</sup> November a Part II Research Methods seminar, and on 1<sup>st</sup> December a 'Science, Industry and Empire' Part II session. These classes all took place 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. The *Longitude* case was completed in 2012.

#### MPhil Essays and Theses

Seb Falk	'Something in the World.' Looking into a Spanish Globe. (Wh. 5892)
	'Astrolabes in Context. A Reappraisal of Medieval Astronomical Instruments.'
James Poskett	'Bumps Across Borders: Towards a Transnational Historiography of Phrenology c.1838.'



‘Sounding in silence: the mechanics of discipline in the early nineteenth-century Royal Navy.’

Simone Schleper ‘Philips’ Popular Manikin – The culture of flap anatomies around 1900.’

Jack Stevens ‘Negretti & Zambra’s scientific instruments: a new dimension to the Victorian culture of travel.’

## Grants and Donations

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### Grants

The Whipple was awarded a PRISM acquisition grant to assist with the purchase of the Nairne and Blunt orrery. Usually the upper limit of this grant is £12,000, but the Whipple was very kindly given £15,000 in recognition of the interest of the object.

The School of Humanities and Social Sciences awarded the Whipple a grant of £18,500 to assist with the purchase of storage cabinets for the museum stores.

DCMS/Wolfson awarded the Whipple a grant of £20,000 for the purchase of new display cases for the Upper Gallery refurbishment, to create the new Globe Gallery.

The Museum was also given a Cambridge City Council Leisure Grant Award of £500 to cover some costs of opening the Whipple on occasional weekends and therefore allowing greater access to the museum for local people.

### Other Donations

We thank Anita McConnell for her continuing contribution.

### Staff News

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We had three summer interns this year. They were Vashka dos Remedios, a PhD student, Allison Ksiazkiewicz, a PhD student, and James Galvin, a final year student at Linton Village College. Vashka made significant in-roads into the accessioning backlog, Allison progressed the Student Work Project and wrote abstracts of all student work produced prior to 2012 and James compiled lists of contents to be displayed on the front of the storage cabinets in the Reserve Gallery.

Doctoral students Ruth Horry, Katy Barrett and Josh Nall continued to help in the Museum on a part-time basis. With short-term (until March 2015) funding from Connecting Collections (Arts Council England), the Whipple Museum will be recruiting for a half-time Learning Co-Ordinator in the new academic year. We hope to have the successful candidate in post at the beginning of 2013.

### Training

9<sup>th</sup> May 2012

*Focus Group.* Claire Wallace visited the Fitzwilliam Museum to attend a focus group about the use of metadata in museums and how to improve search parameters on web-based catalogues.

6<sup>th</sup> July 2012

*The redevelopment of the displays at the Museum of Archaeology and Anthropology.* This session was held at the Fitzwilliam Museum and was attended by Steven Kruse. This bite size course focused on the recent refurbishment of the galleries at MAA.

# Loans

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

## Loans out

### Science Museum, London

*Stephen Hawking at 70*, March-April 2012

Wh.3770      Space-Time Model (Black Hole)

## Loans in

### Science Museum

*The Acoustical Experiments of Lord Rayleigh*, 20<sup>th</sup> May 2010 – 2<sup>nd</sup> 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 – January 2013

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

*The Acoustical Experiments of Lord Rayleigh* May 2010 – November 2010

Portrait of Lord Rayleigh for Rayleigh Exhibition

## New Acquisitions

Wh.6500      Micrometer, Whitworth ‘millionth’ measuring machine, by Sir Joseph Whitworth & Co.,  
Manchester, England, 1893  
Wh.6501      Relief Globe by Thury & Belnet, c. 1860  
Wh.6502      Silver studded brass astrologer’s globe, India, late 19<sup>th</sup> century

- Wh.6503 “Grand Sohlberg” celestial globe, Swedish, late 19<sup>th</sup> century
- Wh.6504 Celestial folding globe, by Friedrich G. Schulz, Stuttgart, c. 1830
- Wh.6505 21cm German Celestial Globe, by Dietrich Reimer, c. 1920
- Wh.6506 Instrument for solving spherical triangles, by Casella & Co., c. 1886
- Wh.6507 Philips’ Patent Orrery, by George Philip & Son
- Wh.6508 Nairne and Blunt Orrery, c. 1790
- Wh.6509 Phrenological bust (attributed to James de Ville, c. 1930)
- Wh.6510 Phrenological bust (attributed to James de Ville, c. 1930)
- Wh.6511 Phrenological bust (attributed to James de Ville, c. 1930)
- Wh.6512 2 Phrenological busts and 2 posters on canvas relating to phrenology
- Wh.6513 Boxes of glass slides of Anatomic Illustrations
- Wh.6514 Spinthariscopes
- Wh.6515 Tavernier Gravet Gold Medal 1878 Slide Rule
- Wh.6516 4 Crystal models, early 20<sup>th</sup> century
- Wh.6517 Eliza Brightwen Bible Album, c. 1870
- Wh.6518 Brass alembic and microscope
- Wh.6519 Demonstration Lodestone, 19<sup>th</sup> century
- Wh.6520 Anita 810 Calculator
- Wh.6521 Casio LC-88 Electronic Calculator
- Wh.6522 7 French Framed Chemistry Teaching Panels
- Wh.6523 Temperature and Humidity Sensors (CSI)
- Wh.6524 Microtome (CSI)
- Wh.6525 Temperature Sensor (CSI)
- Wh.6526 Stop Clock (CSI)
- Wh.6527 Electrotherapy book by Ludwig Josef Melicher and electrotherapy-related instruments, c. 1860
- Wh.6528 12 didactic astronomical lantern slides, English, pre-1848
- Wh.6529 5 plaster geological models, by W. Hill, early 20<sup>th</sup> century
- Wh.6530 7 plaster models of single-celled organisms, by Vaclav Fric, Prague, 19<sup>th</sup> century
- Wh.6531 Unique complete drawing instruments magazine belonging to George Adams, plus book and print, c. 1783
- Wh.6532 Pair of Schmid Anatomical Reliefs
- Wh.6533 Papyrus Display Case
- HC112 Reproduction of ‘Consul – The Educated Monkey’ (for Handling Collection)

# Individuals

## Annual Reports of Members of the Department

### 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 enjoying the publication of my book, *Science in the Twentieth Century and Beyond* (Polity Press, 2012). One of the origins of this book was teaching the subject to Part II students at HPS in the years between 2003 and 2006. I am also editor of the *British Journal for the History of Science*.

#### Publications

Jon Agar, *Science in the Twentieth Century and Beyond*, Polity Press, 2012

#### Lectures, seminars and conferences

*November 2011*

Q&A for Britain's Greatest Codebreaker, Channel 4 film on Turing, BAFTA/Google, London

*December 2011*

'Science in the twentieth century and beyond', King's College, London

'How do we account for the predominance of US science? Seven kinds of answers', The American Challenge: the impact of the US scientific, technological and industrial organization in Post-war Europe, Universitat Pompeu Fabra, Barcelona, December 15-16, 2011

*February 2012*

'Alan Turing, a broken heart, and the invention of the computer', UCL Lunchtime Lecture for LGBT Diversity Month, 16 February 2012

*March 2012*

'Working Worlds, Open Questions, and Missing Stories', UCL, 29 March 2012

*April 2012*

'Working Worlds of 20th Century Science', China/India workshop, King's College, London, 12-15 April 2012

'Ariel, the United Kingdom and International Scientific Co-operation', 50 Years of the UK in Space, Science Museum 26-27 April 2012

*June 2012*

'Turing, working worlds, and the government machine', ACE 2012, King's College, Cambridge, 15-16 June 2012

(with Michela Massimi) 'Working worlds as an example of integrated HPS', Seventh Annual UK Workshop on Integrated History and Philosophy of Science, 28-29 June 2012

### Robert G. W. Anderson

#### Publications

##### *Edited books*

(with Jean Jones) *The Correspondence of Joseph Black* 2 vols (Ashgate Publishing 2012)

(guest editor) 'Celebrating the 75<sup>th</sup> Anniversary of the Society for the History of Alchemy and Chemistry' *Ambix* 58(3) (2012)

### **Articles in books**

'Where are the Mechanics' Museums?' in Bronwyn Lowden (ed) *Self Help* (Lowden Publishing, 2011), 4-10  
'Setting the Scene' in Marina Wallace *The Lives of Paintings* (Zidane Press, 2011), 17-27

### **Articles in journals**

'Partington: The Missing Part' *Ambix* 59 (2012), 49-64

### **Reviews**

Review of Marco Beretta, *The Alchemy of Glass: Imitation and Transmutation in Ancient Glassmaking*, in *Isis* 102 (2011) 548,549

Review of Peter Day, *Under the Cucumber Tree: Scenes from the Life of a Jobbing Itinerant Scientist*, in *Notes and Records of the Royal Society* 66 (2012) 309,310

## **Lectures, seminars and conferences**

### *May 2012*

'Chemical Correspondences: Joseph Black' Oxford History of Chemistry Seminar

### *June 2012*

'Approaching Laboratories' ADHOC, HPS Cambridge

### *July 2012*

'Editing Black's Correspondence: Problems and Queries' Three Societies Meeting, Philadelphia

### *August 2012*

'Who was the Real Joseph Black?' American Chemical Society, Philadelphia

## **Scott Anthony**

During the second year of Leverhulme Early Career Fellowship I have been broadening out my research into the practices and politics of post-war advertising, actively co-convening a very strong Public and Popular History seminar programme and supervising a small number of paper 11 students. During the course of my research into the market research pioneer Mark Abrams I discovered previously unknown material, some of which will hopefully find a home at Churchill College. In May 2012 one of these documents – an analysis of Hitler's mental state produced by a propaganda unit under Abrams direction – was picked up by the media, including BBC World Service, The Times, The Telegraph, The Guardian, The Independent, The Express, The Mirror as well as other news organisations across Europe, Asia and North America. The conclusion of my research into the GPO Film Unit in September 2011 was also covered widely in the UK and US media, and I co-wrote the successful applications to have the work of the Film Unit added to UNESCO's UK Memory of the World register and to have BT Heritage's collections awarded Designated status by the Arts Council.

## **Publications**

### **Books**

*Public Relations and the Making of Modern Britain* (MUP, 2012)

(with Oliver Green) *British Aviation Posters: Art, Design and Flight* (Lund Humphries, 2012)

### **Edited books**

(with James Mansell) *The Projection of Britain: A History of the GPO Film Unit* (BFI, 2011)

### **Articles in books**

'Imperialism and Internationalism: The British Documentary Movement and the Legacy of the Empire Marketing Board' in L. Grieveson and C. MacCabe *Empire and Film* (BFI, 2011), pp.135-148

### **Articles in journals**

(With James Mansell) 'The Documentary Movement and the spaces of British Identity' a special issue of *Twentieth Century British History* co-edited with James Mansell, Vol.23, No.1 (OUP, 2012), 1-12

'The Future's in the Air: Imperial Airways and the British Documentary Film Movement' in *Journal of British Film and Television*, Vol. 8, No.3 (EUP, 2011), 301-321

### **Reviews**

Review of P. Logan, *Humphrey Jennings and British Documentary Film: A Re-Assessment*, in TCBH, Vol.23, No.1 (OUP, 2012) 151-3

## **Lectures, seminars and conferences**

### *November 2011*

'Art, Aviation and Empire in 20C Britain', Maitland Society, Downing College. Cambridge

### *December 2011*

“Tate not state”: The Aims of Industry and British public relations in the Cold War', Public Relations of the Cold War conference, CRASSH, Cambridge

### *February 2012*

'Imaginative Bureaucracy: Stephen Tallents and the rise of public relations', Twentieth Century and Contemporary Literature seminar, Jesus College, Cambridge

### *June 2012*

'Calendar of the Year: The Timeless Visions of the GPO Film Unit', Framing the cinematic calendar: The Ninth Tel Aviv International Colloquium on Cinema and Television Studies, Tel Aviv University

'The Quality of Life Surveys: Mark Abrams and the measurement of happiness', The Measurement of Values workshop, Max Planck Institute for the History of Science, Berlin

### *July 2012*

'Selling Free Enterprise in Austerity Britain: The Aims of Industry Film Unit', *Screen* annual conference, University of Glasgow

## **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'. In addition to her current publications, Dr Baker has contributed a chapter to a book about the academic uses of historical GIS mapping which will be published by Springer in Fall 2012, has a conference review in an upcoming issue of the BSHS *Viewpoint*, has a journal article under peer review and will soon be submitting another two journal articles, and will be writing more posts for the project blog. She is also researching for and writing more than half of the project book, which has been contracted with Palgrave Macmillan for publication in 2014, and is rewriting her doctoral thesis for publication as a book. She and other project members are currently producing volume summaries and additional contextual writings for the University Library's project to digitise and to make public records related to the Board of Longitude as well. Dr Baker was awarded an Honourable Mention in a popular science writing contest in early 2012 for an article which will soon be published.

## **Publications**

### **Reviews**

Review of *J Wigelsworth*, *Selling Science in the Age of Newton: Advertising and the Commoditization of Knowledge*, in *the British Journal for the History of Science* 44 (2011), 595-597

### **Online**

*Making sense of absence*: <http://blogs.rmg.co.uk/longitude/2012/02/06/making-sense-of-absence/> (2012)

*Financial odds and ends of the Board of Longitude*: <http://blogs.rmg.co.uk/longitude/2012/03/05/financial-odds-and-ends-of-the-board-of-longitude/> (2012)

*A Scandal in Suffolk Street*: <http://blogs.rmg.co.uk/longitude/2012/03/12/a-scandal-in-suffolk-street/> (2012)

*Longitude in the time of war*: <http://blogs.rmg.co.uk/longitude/2012/03/20/longitude-in-the-time-of-war/> (2012)

*Ceylon, Crusoe and Cannabis*: <http://blogs.rmg.co.uk/longitude/2012/06/25/ceylon-crusoe-and-cannabis/> (2012)

*A Captain Cook relic in Philadelphia*: <http://blogs.rmg.co.uk/longitude/2012/07/13/captain-cook-in-philadelphia/> (2012)

*The 'make do and mend' culture of scientific instruments*: <http://blogs.rmg.co.uk/longitude/2012/07/16/the-make-do-and-mend-culture-of-scientific-instruments/> (2012)

*Palimpsests, patronage and (negative) publicity in a Maskelyne cache*:

<http://blogs.rmg.co.uk/longitude/2012/08/07/palimpsests-patronage-and-negative-publicity-in-a-maskelyne-cache/> (2012)

*Culture clash and 'cannibalism' in the voyages of Captain Cook*:

<http://blogs.rmg.co.uk/longitude/2012/08/29/culture-clash-and-cannibalism-in-the-voyages-of-captain-cook/> (2012)

*The social side of Georgian 'expertise'*: <http://blogs.rmg.co.uk/longitude/2012/09/12/the-social-side-of-georgian-expertise/> (2012)

*Thomas Jefferson and the search for the longitude in America*:

<http://blogs.rmg.co.uk/longitude/2012/09/16/thomas-jefferson-and-the-search-for-the-longitude-in-america/> (2012)

*Sketching 'Curiously Drawn' for BSHS Viewpoint*: <http://picturingscience.wordpress.com/2012/07/20/sketching-curiously-drawn-for-bshs-viewpoint/> (2012)

### **Lectures, seminars and conferences**

#### *November 2011*

'The telescope – technology, luxury and symbol', CRASSH seminar series *Things: Material Cultures of the Long Eighteenth Century*, University of Cambridge.

'The latitude of the search for the longitude in eighteenth-century Britain', *National Maritime Museum / Institute for Historical Research's British Maritime History Seminar Series*, the Institute for Historical Research in London.

#### *July 2012*

'"Precision", "perfection" and the reality of eighteenth-century instruments at sea', Three Societies Meeting, University of Pennsylvania.

## **Debby Banham**

It's been an interesting and varied year, with activity in my fields of interest ranging from medicine to farming, via the ever-popular monastic sign language. Peter Jones and I have again run a successful series of Medieval Medicine Discussion Group meetings, with papers from Catherine Rider, our own Isla Fay, and our founder Hilary Powell. I have enjoyed another stimulating year as tutor to the Latin Therapy group: this year's theme was travel and transport, with texts ranging from a nineteenth-century poem about trains to instructions for conjuring up a spirit horse.

### **Publications**

#### **Articles in books**

'"To keep silence following the Rule's command": Bishop Æthelwold, reforming ideology and communication by signs' in Alexander R Rumble (ed) *Leaders of the Anglo-Saxon Church: from Bede to Stigand* (Boydell, 2012), 129–45

'Sign language' in Gale Owen-Crocker, Elizabeth Coatsworth and Maria Hayward (eds) *Encyclopaedia of Medieval Dress and Textiles of the British Isles, c. 450–1450* (Brill, 2012), 514–15

## Lectures, seminars and conferences

*October 2011*

with Christine Voth 'Wounds and their treatment in Anglo-Saxon England', Festival of Ideas, Department of Anglo-Saxon, Norse and Celtic, University of Cambridge

*December 2011*

'Two horsemen of the apocalypse: famine and epidemic disease (human and animal) in Anglo-Saxon narrative sources', *Disease and Disability and the Economy*, University of Nottingham  
'An Anglo-Saxon Christmas: ceremonies and feasting', Huntingdonshire Local History Society

*March 2012*

'Anglo-Saxon manuscripts', open day, Newnham College, Cambridge  
'Medicine at Bury in the time of Abbot Baldwin', *Bury St Edmunds in the Eleventh Century*, University of East Anglia/St Edmundsbury Cathedral

*June 2012*

'Old and Middle English palaeography', London Palaeography Summer School, Institute of English Studies, University of London

*July 2012*

'Medieval manuscripts in the British Library', library staff development day, Birkbeck College, University of London  
'Rules and tools: social status and the practice of agriculture in the *Gerefa*', International Medieval Congress, University of Leeds

*August 2012*

'Finding early medieval Cambridge' Sutton Trust Summer School, Department of Anglo-Saxon, Norse and Celtic, University of Cambridge

## Andrew Barry

Andrew Barry is Professor of Political Geography at Oxford University and a member of the *Technological Natures* research group.

### Publications

#### *Articles in journals*

Barry, A. (2012) [Political situations: knowledge controversies in transnational governance](#). *Critical Policy Studies*, 6(3): 324-336

## Lectures, seminars and conferences

*November 2011*

'Economy, Politics, and the Archive', Department of Geography, University College London.

*January 2012*

'The Geographical Problem', conference on *Transdisciplinarity and the Humanities*, Centre for Modern European Philosophy, Kingston University.  
'Political Fieldwork', *Terra Infirma – Experimenting with Geopolitical Practices*, Department of Geography, UCL/Arts-Catalyst.



March 2012

'Materiality, Measurement, Energy, Politics', *Political Materials* seminar, CRESC/School of Social Sciences, University of Manchester.

April 2012

'Environmental Impact, Transnational Governance, and Knowledge Controversies'. Department of Law, Oxford University.

June 2012

'Geography and other disciplines', workshop on the *Geographical Canon?*, History and Philosophy of Geography Research Group, Royal Geographical Society, St Catherine's College, Oxford.

## Jonathan Birch

Jonathan has been elected to a Junior Research Fellowship at Christ's College, Cambridge, beginning October 2012.

### Publications

#### Articles in journals

'Social revolution' (Review essay on Andrew F. G. Bourke: *Principles of Social Evolution*), *Biology and Philosophy* 27 (2012), 571-581.

'Collective action in the fraternal transitions', *Biology and Philosophy* 27 (2012), 363-380.

'The negative view of natural selection', *Studies in History and Philosophy of Biological and Biomedical Sciences* 43 (2012), 569-573.

### Lectures, seminars and conferences

April 2012

'Hamilton's rule and its discontents', Philosophy of Biology in the UK, All Souls College, Oxford.

May 2012

'Between groups and individuals: life-history theory and the evolution of specialization', Consortium for the History and Philosophy of Biology, University of Toronto.

July 2012

'Between groups and individuals: life-history theory and the evolution of specialization', British Society for the Philosophy of Science, University of Stirling.

## Michael Bravo

### Publications

#### Edited books

(with N. Triscott) *Arctic Geopolitics and Autonomy*. (Hatje Cantz, 2011)

#### Articles in books

(with C. Aporta), 2012, 'Cartographic Gestures' in T Tyszcuk, J Smith, N Clark and M. Butcher (eds), *Atlas: Geography, Architecture, and Change in an Interdependent World* (Black Dog Press, 2012), 142-145.

'Building Autonomy through Experiments in Technology and Skill' in M Bravo and N. Triscott (eds) *Arctic Geopolitics and Autonomy* ( Hatje Cantz, 2011) 37-55.

### **Articles in journals**

'Collecting the Proxies and Mementos of Climate Histories' in Forum on 'Communicating climate knowledge proxies, processes, politics', *Current Anthropology*, 53(2012), 232-33.

Donovan, A., Oppenheimer, C., & Bravo, M., 'Science at the policy interface: volcano-monitoring technologies and volcanic hazard management', *Bulletin of Volcanology*, 74 (2012), 1005-1022.

Donovan, A., Oppenheimer, C., & Bravo, M. (2012), 'Reply to comment from W.P. Aspinall on 'Social studies of volcanology: knowledge generation and expert advice on active volcanoes'', *Bulletin of Volcanology*, 74(2012), 1571-1574.

Donovan, A., Oppenheimer, C., & Bravo, M. (2012), 'Social studies of volcanology: Knowledge generation and expert advice on active volcanoes', *Bulletin of Volcanology*, 74(3): 677-689.

### **Reviews**

Bravo, M. T. Review of 'An Empire of Ice: Scott, Shackleton, and the Heroic Age of Antarctica', Yale University Press, 2011, in *New Scientist*, July 11 2012, p.54.

### **Lectures, seminars and conferences**

#### *October 2011*

(with C. Aporta) 'Inuit Horizons: Reflections on the Concepts of Region and Network', *Visiting Fellows seminar, Centre for Research in the Arts, Humanities, and Social Sciences, CRASSH, University of Cambridge.*

#### *November 2011*

(with C. Aporta) 'Inuit Horizons: Reflections on the Concepts of Region and Network', *Department of Social Anthropology Seminar Series, University of Aberdeen.*

#### *February 2012*

'Technology, Autonomy and Arctic transnationalism', *Association of American Geographers Annual Conference, New York*

#### *March 2012*

'Discussant response to S. Naylor, 'Atmospheric Empires', *Nonhuman Empires, Department of History and Philosophy of Science, University of Cambridge*

#### *May 2012*

'What is the Arctic? Narratives and the Role for Governance and the EU', in the Panel on 'The EU as an Arctic Actor: Interests and Governance Issues', *Stiftung Wissenschaft und Politik (SWP), Berlin*

#### *June 2012*

'How Long is an Arctic Yard?' *Longitude and Survey: International Relations, (Board of Longitude Project), National Maritime Museum, Greenwich*

## **Alex Broadbent**

Alex is a Senior Lecturer in Philosophy at the University of Johannesburg. Alex's research interests lie in metaphysics, epistemology, and the philosophy of science broadly construed. Much of Alex's work concerns philosophical problems posed by causation. As well as his work in metaphysics, Alex has philosophical interests in the science of epidemiology (which is concerned with public health), and in the philosophy of law. He is currently working on a project to establish Philosophy of Epidemiology as a subdiscipline within the philosophy of science. Before joining UJ in March 2011, Alex spent most of his previous life at Cambridge, where he studied and later lectured, and where he remains a Research Associate. He also studied at University College London and at Harvard, and has been a Visiting Professor at the University of Vienna.

## Publications

### Articles in books

Broadbent, A. 2011. 'Inferring causation in epidemiology: mechanisms, black boxes, and contrasts.' *Causality in the Sciences*, Phyllis McKay Illari, Federica Russo, and Jon Williamson (eds.). Oxford: Oxford University Press (2011).

### Articles in journals

Broadbent, A. 2012, 'Causes of causes.' *Philosophical Studies* 158: 457-476.

Broadbent, A. 2011, 'Epidemiological Evidence in Proof of Specific Causation.' *Legal Theory* 17: 237-278.

Broadbent, A. 2011, 'What could possibly go wrong? – A heuristic for predicting population health outcomes of interventions.' *Preventive Medicine* 53: 256-259.

Broadbent, A. 2011, 'Conceptual and methodological issues in epidemiology – An overview.' *Preventive Medicine* 53: 215-216.

Broadbent, A. 2011, 'Defining Neglected Disease.' *BioSocieties* 6: 51-70.

### Online

Broadbent, A. 2011, *Epidemiology, Risk, and Causation: conceptual and methodological issues in public health science*. <http://www.phgfoundation.org/reports/10491/>

### Reviews

Broadbent, A. 2011, 'Michael S. Moore, *Causation and Responsibility: An Essay in Law, Morals and Metaphysics*.' *Ethics*, 121: 669-674.

## Lectures, seminars and conferences

2011 'Explanation and Prediction in Epidemiology', Philosophy of Epidemiology Conference, University of Johannesburg

2011 'From Causation to Prediction in Epidemiology', Popper Seminar, London School of Economics

2011 'Two Kinds of Difference-Making', Causality and Mechanisms in the Sciences, University of Ghent

### October 2011

'How Causal Knowledge Enables Prediction', European Philosophy of Science Association, Athens

### November 2011

'From Causation to Prediction in Epidemiology', Popper Seminar, London School of Economics

'Using Causal Knowledge to Predict', Causality and Mechanisms in Philosophy of Science, University of Berne

### December 2011

'Explanation and Prediction in Epidemiology', Philosophy of Epidemiology Conference, University of Johannesburg

### September 2012

'The Myth of Translation', EuroEpi, Porto

## Robert Bud

During the year (October 2011-July 2012) he held an AHRC research fellowship to explore 'Narratives of science and practice in mid-nineteenth century Britain: applied science, stories and story-telling'. Among his published outputs was the editing of a focus section in the September 2012 issue of *ISIS* dealing with the history of applied science. For the year 2012/2013, he was appointed to the honorary position of Sarton Professor in the History of Science at the University of Ghent.

## Publications

### Articles in journals

- 'Life, DNA and the Model', *The British Journal for the History of Science*, FirstView (2011)  
'Introduction' to Focus Section on Applied Science, *Isis* September 2012  
'Applied Science: A Phrase in Search of a Meaning', *Isis* September 2012

### Reviews

- Review of Christoph Gradmann and Jonathan Simon, *Evaluating and Standardizing Therapeutic Agents, 1890-1950*, in *Ambix*: 59(2012), 182-183  
Review of Takahiro Ueyama, *Health in the Marketplace: Professionalism, Therapeutic Desires, and Medical Commodification in Late-Victorian London*, in *Isis* 102(2011), 793-794

## Lectures, seminars and conferences

### November 2011

- "Reconstructing Applied Science and the 'Representational Anecdote' in 1870s Britain," *Annual meeting of the History of Science Society*. Cleveland OH  
'Biotechnology: Past Prophecies of the Next Revolution', *Keynote address. Recent Advances in Fermentation Technology IX*, Marco Island, FL,

### December 2011

- 'Pure and Applied Research in the Context of the Cold War' *The American Challenge. The Impact of the United States' Scientific, Technological and Industrial Organization in Post-war Europe*, Universitat Pompeu Fabra, Barcelona

### April 2012

- 'Defining Applied Science through Allegorical Narratives', *Annual Meeting of the European Social Science History Society*, University of Glasgow

### May 2012

- 'Making Science as British as Roast Beef: Stories about Applied Science in the Victorian Periodical', *Birkbeck Forum for C19 Studies*, Birkbeck College  
'Museums and the History of Science', *John Pickstone Retirement Symposium*, University of Manchester

### July 2012

- "'Applied Science', Self-Interest and the Public Sphere' in Mid-19th-Century Britain', *Three Society Conference*, University of Pennsylvania, Philadelphia  
'Putting science in the 19<sup>th</sup> century public sphere: the case study of applied science', *Science in Public Conference* University College London

### August 2012

- 'Resolving the Problem of the Abstract: Turning Concepts into Stories', *Keynote address*, *Cimuset*, Tampere, Finland

### September 2012

- 'The Victorian Celebration of Applied Science in South Kensington', *Public lecture*, The Science Museum

## Tatjana Buklijas

Tatjana Buklijas is a research fellow at Liggins Institute, University of Auckland, New Zealand, currently developing new projects in the history of research into human development in the twentieth century and interactions between evolutionary biology and medicine. In 2011-2012, she has also lectured at University of Dubrovnik and continued to supervise medical dissertations at Medical University of Vienna.

## **Publications**

### **Articles in books**

'The politics of anatomy in fin-de-siècle Vienna', in Mitchell Ash and Jan Surman (eds.) *The nationalization of scientific knowledge in late Habsburg Monarchy*, London: Macmillan, 2012, pp. 209–44.

### **Online**

Salim Al-Gailani, *Teratology and the Clinic: Monsters, Obstetrics and the Making of Antenatal Life in Edinburgh, c. 1900*, PhD dissertation, University of Cambridge 2011, reviewed for *Dissertation Reviews* (<http://dissertationreviews.org/archives/783>), January 2012.

### **Reviews**

Teodora D. Sechel (ed.), *Medicine Within and Between the Habsburg and Ottoman Empires*, Dieter Winkler, 2011, *Bulletin of the History of Medicine* 86(2012): 127–29.

Sara Dubow, *Ourselves Unborn: A History of the Fetus in Modern America*, OUP, 2011  
*Social History of Medicine* 2011; doi: 10.1093/shm/hkr156.

## **Lectures, seminars and conferences**

### *October 2011*

'Sex differences in the early-twentieth century Vienna', DKPlus Programme 'Sciences in historical, philosophical and cultural contexts' Seminar Series, University of Vienna, 5 October 2011.

'Human development in fin-de-siècle Vienna', Department and Collections for the History of Medicine, Medical University of Vienna, 6 October 2011

### *March 2012*

'Foetal physiology, nutrition research and the origins of Barker's hypothesis', Workshop 'Transforming Pregnancy since 1900', Department of History and Philosophy of Science, University of Cambridge, 29-30 March 2012.

### *July 2012*

'Science and nationalism in the late Habsburg Monarchy', Victoria University of Wellington History Department Seminar Series, 27 July 2012.

## **Soraya de Chadarevian**

Soraya de Chadarevian is a Professor in the Department of History and the Institute for Society and Genetics at the University of California Los Angeles

## **Publications**

### **Articles in journals**

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

'Scientists' lives and the history of science' (essay review), *NTM, Journal of the History of Science, Technology and Medicine* 19 (2011), 407-412

'The making of an entrepreneurial science: biotechnology in Britain, 1975–1995', *Isis* 102 (2011), 601-633

## **Lectures, seminars and conferences**

### *October 2011*

Final commentary at workshop Cultural history of heredity: breeding and insanity, Department of History and Center for Society and Genetics, UCLA

### *November 2011*

'Genetic screening and prospective studies in the early history of medical genetics: practices and controversies', at session "Putting the human into human genetics", History of Science Society Annual Meeting, Cleveland, OH

‘Tracing differences: human chromosome research, 1960s to 1970s’, at workshop Data - Difference - Diversity: Technologies of differentiation in the life sciences, Max Planck Institute for History of Science, Berlin

*December 2011*

‘Scientific relations between the US and the UK post World War II’, at workshop The American Challenge: the impact of the US scientific, technological and industrial organization on postwar Europe’, Pompeu Fabra University, Barcelona, Spain.

*January 2012*

‘Putting human genetics on a solid basis: human chromosome research, 1950s-1970s’, seminar talk, UCSD Science Studies Program

*May 2012*

Co-organizer (with Lindsay Smith), 1-day International workshop Biohistories: biological markers and human populations in historical context, UCLA Institute for Society and Genetics

‘The genetic study of human populations post-World War II’, at workshop Biohistories: biological markers and human populations in historical context, UCLA Institute for Society and Genetics

*June 2012*

Panel discussion at symposium Public science: peepshows, caskets and microscopes, UCLA Young Research Library

Co-organizer (with Jenny Bangham), 3-day international workshop, Making human heredity: populations and public health in the postwar era, Department of History and Philosophy of Science, University of Cambridge

‘Chromosome surveys of human populations: between epidemiology and anthropology’ at workshop ‘Making human heredity: populations and public health in the postwar era’, HPS, University of Cambridge

## Hasok Chang

This was my second year in post in HPS. I have maintained an active schedule of activities both inside and outside the department. In terms of research output, the main achievement of 2011-12 was the publication of my second book. I have given a large number of presentations worldwide on various topics relating to the subjects covered in the book, and on various other topics.

Having served as the Vice President of the British Society for the History of Science (BSHS) during 2011-12, I have started my 2-year term as President on 1 September 2012; in these capacities I represented the BSHS in the “3 Societies” conference in Philadelphia in July 2012, and have been participating in the planning of the International Congress of the History of Science, Technology and Medicine (to be held in Manchester in July 2013). I also remain an Associate Editor of the *British Journal for the History of Science*.

I have continued in my key roles in the Society for Philosophy of Science in Practice, in the International Committee for Integrated HPS (which held its 3rd biennial conference in Athens in March 2012), and in the UK Network for Integrated HPS (which held its 7th annual workshop at UCL in June 2012). I have also joined the governing Council of the Society for History of Alchemy and Chemistry.

Within Cambridge I have collaborated with Huw Price, Jeremy Butterfield and others to establish the Cambridge Philosophy of Science (CamPoS) network, which is launching a weekly seminar series and other activities now. My collaborative agreement with the Department of Chemistry also continues, though the level of activity in 2011-12 has been low. Within HPS I continued to play a leading role in the running of the Philosophy of Science Reading Group, AD HOC (also its London branch), the Philosophy and History of Physics Reading Group, and the History and Theory Reading Group.

### Publications

#### *Books*

*Is Water H<sub>2</sub>O? Evidence, Pluralism and Realism*, Boston Studies in the Philosophy of Science 293 (Springer, 2012)

#### *Articles in books*

‘Priestley, Joseph (1733–1804)’ in A I Woody, R F Hendry and P Needham (eds) *Philosophy of Chemistry*, Handbook of the Philosophy of Science, vol. 6 (Elsevier, 2012), 56–62

### **Articles in journals**

'The Persistence of Epistemic Objects through Scientific Change', *Erkenntnis* 75 (2011), 413–429  
(with R Ankeny, M Boumans and M Boon) 'Introduction: Philosophy of Science in Practice', *European Journal for Philosophy of Science* 1 (2011), 303–307, guest editors' introduction to the special issue containing papers from the Second Biennial Conference of the Society for Philosophy of Science in Practice

### **Lectures, seminars and conferences**

#### *October 2011*

'Science and the Limits of Human Knowledge', *Science Meets Faith* series, Wesley Church, Cambridge 'When Water Does Not Boil at the Boiling Point', *Physics, Chemistry and Biology of Water* (sixth annual conference)

#### *November 2011*

'Operationalism and Realism in 19th-century Atomic Chemistry', Philosophy of Physics Seminar, University of Oxford

#### *December 2011*

'Is Water H<sub>2</sub>O?' SCI/RSC/ChemSoc lecture, at the Department of Chemistry, Cambridge

#### *January 2012*

'We Have Never Been Whiggish (About Phlogiston)', CHoSTM seminar, Imperial College London

#### *February 2012*

'Why Did Dalton Think Water was HO, not H<sub>2</sub>O?' Natural Sciences Society, Jesus College, Cambridge

#### *March 2012*

'Operationalism and Realism in 19th-century Atomic Chemistry', Fourth International Conference on Integrated History and Philosophy of Science ('&HPS4'), at the University of Athens  
'Water: The Long Road from Aristotelian Element to H<sub>2</sub>O', SCI Retired Members' Lunch Lecture, London

#### *April 2012*

Comments on Travis Norsen, 'Scientific Cumulativity and Conceptual Change: The Case of Temperature', Annual Conference of the American Philosophical Association (Pacific Division), Seattle  
'It's Electrochemistry, Jerry, But Not As We Know It', University of Washington, Seattle  
'A Case for Pluralism in Science', Philosophy Colloquium, University of Washington, Seattle  
'The Premature Death of Phlogiston', History of science/STS Colloquium, University of Washington, Seattle

#### *May 2012*

'Ways of Knowing (WoK) and the Chemical Revolution', Conference in honour of John Pickstone, University of Manchester

#### *June 2012*

'Epistemic Activities and Systems of Practice: Units of Analysis in Philosophy of Science after the Practice Turn', *Rethinking Science after the Practice Turn*, MSH Lorraine and Archives Henri Poincaré, University of Nancy  
'Integrated History and Philosophy of Chemistry: Challenges and Prospects', Seventh Annual UK Integrated HPS Workshop, at UCL

#### *July 2012*

'Electrolysis before the Modern Ionic Theory: Underdetermination, Closure, and Pluralism', AD HOC (Association for the Discussion of the History of Chemistry), London branch  
'Active Scientific Realism', keynote address, Annual Conference of the British Society for the Philosophy of Science, Stirling  
'History of Chemistry: Benefits for Chemical Philosophy, Science, and Education', at the British–North American ('3 Societies') History of Science Conference, Philadelphia

#### *August 2012*

'Pluralism and Realism in 19th-century Electrochemistry', Annual Summer Symposium of the International Society for the Philosophy of Chemistry, Leuven

- ‘What Really Happened in the Chemical Revolution?’, Centro Simão Mathias de Estudos em História da Ciência (CESIMA), Pontifícia Universidade Católica de São Paulo (PUC-SP), São Paulo, Brazil
- ‘What Does the History of Chemistry tell us about Scientific Realism?’ CESIMA, PUC-SP, São Paulo, Brazil
- ‘The Persistence of Epistemic Objects Through Scientific Change’, El Instituto de Humanidades, Universidad Diego Portales, Santiago, Chile
- ‘Is Water H<sub>2</sub>O?’ El Instituto de Humanidades, Universidad Diego Portales, Santiago, Chile
- ‘Water: The Long Road from Aristotelian Element to H<sub>2</sub>O’, *Third Biennial Conference in Honour of Allen G. Debus*, CESIMA, PUC-SP, São Paulo, Brazil
- ‘Pluralism in Science’, CESIMA, PUC-SP, São Paulo, Brazil

#### September 2012

- ‘The Relation Between History and Philosophy of Science’, CESIMA, PUC-SP, São Paulo, Brazil
- ‘Early Electrochemistry: Progress without Foundations?’ CESIMA, PUC-SP, São Paulo, Brazil
- ‘Is Water H<sub>2</sub>O? A Hundred Years of Chemistry’, Universidad de la República, Montevideo, Uruguay
- ‘Realism and Pluralism: Reflections on Water’, Universidad de la República, Montevideo, Uruguay
- ‘Teaching the History and Philosophy of Science’, Universidad de la República, Montevideo, Uruguay
- ‘Science, Philosophy and Society’, Universidad de la República, Montevideo, Uruguay

## Dr Patricia Fara

I featured in a BBC4 TV documentary, *The story of electricity* that has been broadcast several times, in a BBC Educational film for children on Rosalind Franklin, and an American web-based university maths course. I was also a main contributor to two BBC Radio 4 radio programmes: *Material World* (on the meaning of ‘scientist’) and *In our Time* (on Benjamin Franklin), and was interviewed for a University of Greenwich web-site on women in mathematics. My book, *Science: A 4000 Year History* continues to be translated (10 languages in total), and was awarded the Dingle Prize for the best popular book on the history of science by the British Society for the History of Science. My essay, ‘The significance of Newton today,’ is included in a book accompanying the DVD of a play about Newton for general audiences. I have also carried out substantial amounts of consultancy work: a BBC TV series, *Measurement*; a National Geographic documentary, *Invention*; *See inside inventions: An Usborne flap book* for children; and a Dorling Kindersley children’s book on the history of science.

### Publications

#### Books

*Erasmus Darwin: Sex, Science and Serendipity* (Oxford: Oxford University Press, 2012)

#### Articles in journals

- ‘A History of Science in Ten and a Half objects’, *BBC History*, Oct 2011, 50-55
- ‘Rulers of the Zodiac,’ *Endeavour* 36 (2012), 4-5
- ‘Spying for the Enlightenment,’ *Endeavour* 35 (2011), 47-8

#### Reviews

- Review of P. Harrison *et al* (eds), *Wrestling with Nature: From Omens to Science*, in *Ambix* 59 (2012), pp. 174-5
- Review of A. Wulf, *Chasing Venus: The Race to Measure the Heavens*, in *Literary Review*, June 2012, p. 44
- Review of T. Wright, *Circulation: William Harvey’s Revolutionary Idea* in *BBC History*, June 2012, p. 65
- Review of G. Fraser, *The Quantum Exodus: Jewish Fugitives, the Atomic Bomb, and the Holocaust* in *Nature Physics* 8 (2012), pp. 355-6

### Lectures, seminars and conferences

#### December 2011

‘4000 years in 400 pages’, Trinity College, Dublin, Physics dept

#### January 2012

‘4000 years in 400 pages’, *Haematology conference*, Robinson College, Cambridge



February 2012

'Newton's *Principia*', *Great Ideas*, Sidney Sussex College, Cambridge

March 2012

'Modelling the Cosmos', *British Council seminar on science and religion*, Thurso, Scotland.

'Ghosts of women past', Barcelona Autònoma University

May 2012

'Time & Space in Scientific Imagery,' *Dingle Prize Lecture*, Royal Institution

## John Forrester

John Forrester was on leave in Michaelmas 2011, then returned to teaching and administrative duties in Lent and Easter Terms 2012, including being Head of Department, Senior Examiner NST Part IB HPS, and late in the year Senior Examiner NST Part III HPS and Senior M.Phil. Examiner. He also served on the Council of the School of Humanities and Social Sciences and on the School's Resource Committee in Easter Term. In Lent and Easter Terms 2012 he continued to act as co-convenor, with Prof. 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*. He is a participant in the activities of the Wellcome Trust supported 'Generation to Reproduction' Group and participates in the *Generation to Reproduction Reading Group*.

### Publications

#### Articles in journals

'Falling in and out of love with philosophy', *Metaphilosophy* 43.1-2 (Jan. 2012): 96-111

#### Reviews

'Parroting and Pamphleteering. Review of Mikkel Borch-Jacobsen and Sonu Shamdasani, *The Freud Files*, Cambridge: C.U.P., 2011' *Times Higher Education Supplement No. 2,043*, 29 March-4 April 2012, p. 57

'Editorial' *Psychoanalysis and History* 14(1) 2012: 1-4

'Editorial' *Psychoanalysis and History* 13(1) 2011: 1-3

### Lectures, seminars and conferences

'When did making up people start? Some notes on 'gender', 'identity' and 'character'' Queen Mary International Symposium in the Humanities and Social Sciences, '**Reasoning and Personhood: Some Themes in the Recent Work of Ian Hacking**', Senate House, London, 13th January 2012

## Jeremy Gray

I was 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

'Overstating their case? Reflections on British mathematics in the 19<sup>th</sup> Century', in R. Flood, A. Rice, and R.J. Wilson (eds) *Victorian Mathematics*, (Oxford University Press, 2011), 397—414

'Poincaré's uniformisation theorem', in P. Crépel (ed) *Festschrift pour Christian Gilain*, (Presses de l'Université de Nancy, 2012) 144-169

#### Articles in journals

'History of mathematics and history of science reunited', *ISIS*, 102 (2011), 511—518

'The Vagueness of Wigner's Analysis', *Interdisciplinary Science Reviews*, 36.3, (2011), 214—28

## Lectures, seminars and conferences

October 2011

'Monodromy and covering spaces', *Galois Colloque*, Institut Henri Poincaré, Paris

January 2012

'Poincaré and proof', *Oberwolfach Tagung*, Oberwolfach

May 2012

'Poincaré and the idea of a group', *Poincaré day*, London Mathematical Society

## Vanessa Heggie

This year Vanessa has been working in the department as a teaching associate attached to the Generation to Reproduction group. She has taught on papers 5 and 7, and on the IB and HEM courses, as well as co-organising the History of Modern Medicine Seminars. She participated in the successful *Reproduction on Film* series in the spring of 2011 by giving an introduction to the movie *Murders on the Rue Morgue*, and continued her outreach work through the summer doing media interviews relating to sports medicine and the Olympics. Her work was included as a case study in the UUK, RCUK & BUCS publication for Universities week 2012 *Supporting a UK Success Story: The Impact of University Research and Sport Development*. This summer she was appointed as one of the new cohort of bloggers for the *Guardian* science pages, and co-authors (with Rebekah Higgitt: National Maritime Museum & Board of Longitude Project) a blog called *The H-Word*. She is currently working on two monographs, one related to her extreme physiology research project, and another on athletes as experimental subjects in the long twentieth century.

### Publications

#### Articles in books

"Volunteers for Science: Medicine, Health and the Modern Olympic Games" in Lo, V. (ed) *Perfect Bodies, training for sport, medicine and immortality* (British Museum Publications, 2012)

#### Articles in journals

"Experimental Physiology, Everest and Oxygen: from the Ghastly Kitchens to the Gasping Lung" *British Journal of the History of Science* (Online Advance Access: Sep. 2012)

#### Online

"Active Voice: Exercise and the Heart – 150 years of Risks & Rewards" *American College of Sports Medicine Bulletin*. <http://www.multibriefs.com/briefs/acsm/active11-15.htm> (Nov. 2011)

"Sports doping, Victorian Style" *Guardian: Notes & Theories* <http://www.guardian.co.uk/science/blog/2012/jun/19/sports-doping-victorian-style> (Jun. 2012)

"Sex testing and the Olympics: myths, rumours and confirmation bias" *Guardian: The H-Word* <http://www.guardian.co.uk/science/the-h-word/2012/aug/02/sex-testing-olympics-myths-rumours-confirmation-bias> (Aug. 2012)

"The athlete who drank too much Coca-Cola" *Guardian: The H-Word* <http://www.guardian.co.uk/science/the-h-word/2012/aug/10/athlete-drank-too-much-coca-cola> (Aug. 2012)

"'Legitimate rape' - a medieval medical concept" *Guardian: The H-Word* <http://www.guardian.co.uk/science/the-h-word/2012/aug/20/legitimate-rape-medieval-medical-concept> (Aug. 2012)

#### Reviews

"Managing the Body – Beauty, Health, and Fitness in Britain, 1880-1939" *Social History of Medicine* 24(2011), 821-2

## Lectures, seminars and conferences

October 2011

"The origins of wilderness medicine" *Student Wilderness Medicine UK National Conference*, Cambridge

November 2011

“Comparative Histories: Sport and Medicine in the long 20<sup>th</sup> Century” *Departmental Research Seminar*, York University

“Sex testing in sports: Myths & Rumours” *Enhancement, Identity & the construction of Categories in the Olympics*, Centre for Humanities and Health/King’s Interdisciplinary Discussion Society (KIDS), London

April 2012

“A new history of bioprospecting: technology and physiology from Pemican to Vibrams(tm)” *Departmental Seminar*, Wellcome Unit for the History of Medicine, Oxford

May 2012

“Vital elements: biochemistry, respiration and exploration” *AD-HOC (Association for the Discussion of the History of Chemistry)*, Cambridge

June 2012

“Sports Medicine in Britain”, *Public Lecture*, Hunarian Museum, London

July 2012

“One Man’s Trash: The Many Lives of Mountaineering Technology” *Science, Space & The Environment*, Science Museum, London

## Nick Hopwood

Nick Hopwood, a senior lecturer in the Department, was Part IB manager in Michaelmas Term and ran our Wellcome Trust strategic award on ‘Generation to Reproduction’ in its third year. Among the outreach activities funded by this grant, he chaired a Festival of Ideas debate on the history of IVF (October) and helped put on a second series of six films on reproduction at the Arts Picturehouse, this time on ‘Monstrosity’ (March). He joined the Wellcome Trust’s Medical Humanities Investigator Awards Selection Panel and the editorial advisory board of *Medical History*, and became an associate editor of the *Journal of the History of Biology*. He took sabbatical leave in Lent Term and worked on revising *Icons of Darwinism: Pictures of Embryos and Charges of Fraud* for the University of Chicago Press.

### Publications

#### Articles in journals

‘A marble embryo: meanings of a portrait from 1900’, *History Workshop Journal* 73 (Spring 2012), 5–36

### Lectures, seminars and conferences

October 2011

‘Icon of evolution: pictures of embryos and charges of fraud’, Centre for Health, Medicine and History, Department of History, Philosophy and Religion, Oxford Brookes University

November 2011

‘Icons of evolution: from alleged forgeries to textbook illustrations’, Cambridge Bibliographical Society

‘Wax models: processes of representation and research’, postgraduate workshop, Centre for History and Philosophy of Science, Department of Philosophy, University of Leeds

December 2011

(With P Jones, L Kassell, F Neary and J Secord) Organized a two-day conference, funded by our strategic award, on *Communicating Reproduction*, Department of History and Philosophy of Science, University of Cambridge

‘Pictures of evolution and charges of fraud: controversies around 1875, 1909 and 2000’, seminar and lecture in the series *Streitbilder. Bilder in wissenschaftlichen Kontroversen*, ‘eikones’ (Swiss National Centre of Competence in Research on ‘Iconic Criticism’), University of Basel

February 2012

'Icons of evolution: from alleged forgeries to textbook illustrations', Smith Centre, Science Museum, London

March 2012

'Icons of evolution: pictures of embryos and charges of fraud', Historical epistemology seminar, CSIC Centre for Humanities and Social Sciences, Madrid

'Communicating reproductive science: claims to human *in vitro* fertilization', Office for History of Science, Uppsala University

## Ruth Horry

Ruth continued to volunteer at the Whipple Museum of the History of Science, running educational activities and talks for school groups, university access schemes and museum visitors. At the Seventh British–North American joint meeting of the BSHS, CSHPS and HSS, she co-organised (with Boris Jardine) a panel session on 'Historical display and disciplinary identity'. As part of the HPS Graduate Training programme, she co-organised (with Caitlin Donahue Wylie) peer-support meetings for PhDs and Post-docs involved in undergraduate teaching.

### Publications

#### Online

Articles for online resource *Ancient Mesopotamian Gods and Goddesses* <http://oracc.museum.upenn.edu/amgg>

### Lectures, seminars and conferences

January 2012

'Babylonian gods as ancestors of modern medicine?' British Society for the History of Science postgraduate conference, University of Warwick

May 2012

'Doctors, divination and museum displays: the multiple lives of a Babylonian clay liver model', *Ancient Near East Seminar Series*, Dept of Archaeology, University of Cambridge

June 2012

'Reading the signs: an introduction to Mesopotamian divination', *Bloomsbury Summer School*, University College, London

July 2012

'Modern medicine, ancient ancestors: Babylonian gods and disciplinary identity in Wellcome's Historical Medical Museum, 1913', Seventh British–North American joint meeting of the BSHS, CSHPS and HSS, University of Pennsylvania, Philadelphia

## Shelley Innes

### Publications

#### Edited books

(with F. Burkhardt and the Darwin Correspondence Project) (2012) *The Correspondence of Charles Darwin* vol. 19, Cambridge University Press

## Nick Jardine

Nick retired in September 2010, but remains committed to lecturing, graduate supervision, graduate training and co-organisation of seminars, notably the Latin and Greek Therapy Groups, Cabinet of Natural History and Kant Reading Group. He is about to complete, with Adam Mosley (University of Swansea) and Miguel Granada (University of Barcelona), a critical edition, with English translation, commentaries and essays on Christoph

Rothmann's *Scriptum de cometa*. The AHRC project of which he is PI "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) is flourishing, holding regular seminars, editorial meetings and translation sessions. Its website is well advanced, and papers emanating from its seminars and 3rd international conference are in press as a special issue of *Early Science and Medicine*. Nick is still working on his long-promised book *On Histories of the Sciences*. Since January 2011 he has greatly enjoyed his role as senior consultant on the Cambridge Scientific Heritage Project (in association with John Forrester, Liba Taub, Lydia Wilson and others), and he is currently preparing with Lydia Wilson a special issue of *Studies in History and Philosophy of Science* on "Recent Material Heritage of the Sciences". Last but not least, he is devoting ever more time to the history, philosophy and sociology of fungi, and has been appointed Senior Treasurer of the Cambridge Mycological Society.

## Publications

### *Edited special issues*

*Images in Comparative Perspective: Visual Forms in Astronomy, Medicine and Mathematics, 1470–1650*, special double issue of *Early Science and Medicine* (ed. and intro. with Isla Fay).

### *Article in collection*

'Kepler's "lightly woven cosmography": on the sources, identity and significance of Kepler-Ms 18, 238v-241r, Russian Academy of Sciences, St Petersburg', in V. Morch, ed., *Omnia in uno: littérature, philosophie, philologie et histoire des sciences de l'Antiquité à la Renaissance*, Paris, 2012, 453–465.

### *Essay review*

'Objectivity, epistemology and critique: essay review of L. Daston and P. Galison, *Objectivity*', *British Journal for the Philosophy of Science*, advanced access August, 2011.

## Conferences

'Authorities and strategies in Rothmann's treatise on the comet of 1585', paper presented at Celestial Novelties, Science and Politics on the Eve of the Scientific Revolution, Florence, 30 September, 2011.

'Policies regarding recent material heritage of science in universities', paper presented at XIII Universeum Network Meeting, Trondheim, 16 June 2012.

# Richard C Jennings

Richard Jennings directs the studies for about a quarter of the HPS IB students and supervises them in philosophy of science. He is Director of Studies in Philosophy for Homerton College, Murray Edwards College, and Queens' College. 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.

## Publications

### *Edited books*

(with David Bennett) *Successful Science Communication: Telling It Like It Is* Cambridge University Press, 31 October 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, October 2011), 45-59

### *Online*

(with Sutherland WJ, Bellingan L, Bellingham JR, et al.) (2012) 'A Collaboratively-Derived Science-Policy Research Agenda' *PLoS ONE* 7(3) (2012): e31824. doi:10.1371/journal.pone.0031824

## Lectures, seminars and conferences

### January 2011

“Successful Science Communication (Telling it like it is), Plenary Lecture to PARSUK Workshop on Science Communication 2012

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

### February 2012

“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

### March 2012

“Communicating science? Why bother!” a talk for the conference “Communicating Science and Technology II: From the 15th century to the present” Paris, 9-11 March

### May 2012

Workshops on Ethical Conduct of Research, Wellcome Trust Sanger Institute

### June 2012

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

## Peter Jones

Peter Jones lectured on ‘Medieval Medicine’ in partnership with Jenny Rampling for Part II Paper 2, Early Medicine. He also served on the Board and Degree Committee for HPS. Peter helped organise the international symposium on ‘Communicating Reproduction’ in December 2011, as a member of the Generation to Reproduction project team. He continued to examine the MA on the History of the Book for the University of London.

## Publications

### Online

<http://www.isfnr.org/files/Moscow%20meeting%20book.pdf>

<http://backdoorbroadcasting.net/2012/05/medical-prognosis-in-the-middle-ages/>

## Lectures, seminars and conferences

### October 2011

(with Lea Olsan) ‘Charms and Amulets for Conception and Childbirth’, *Oral Charms in Structural and Comparative Light*, Russian State University for the Humanities, Moscow

### November 2011

(with Lea Olsan) ‘Charms and Amulets for Conception and Childbirth’, *Interdisciplinary Workshop on Reproduction 7*, CRASSH

‘Babies Make News’, *Friends of Cambridge University Library*

(with Karin Ekholm) ‘Ensoulment’, *Generation to Reproduction reading group*, HPS

### December 2011

(with Lea Olsan) ‘Communicating charms for conception and childbirth in England, 900-1500’, *Communicating Reproduction*, HPS

### February 2012

‘Epidemic Print: Medical Incunabula and their Readers’, *Cambridge University Library Masterclass*

### May 2012

‘Epidemic Print: Medical Incunabula and their Readers’, *Cambridge University Library Masterclass*

'Practitioners and Prognosis in the Later Middle Ages', *Medical Prognosis in the Middle Ages*, Royal Holloway, London

## Melanie Keene

Melanie continued as a Junior Research Fellow at Homerton College. She lectured on 'Evolution' for part II paper 4 in HPS. She also edited *Viewpoint*, the newsletter of the British Society for the History of Science.

### Publications

#### Articles in journals

'Playing among the stars: *Science in Sport, or the Pleasures of Astronomy* (1804)', *History of Education* 40, 521-542.

#### Online

'Robert Hunt's Rocks and Romances', BSHS Travel Guide <http://www.bsbs.org.uk/travel-guide/> (2011)

#### Reviews

Review of L Talairach-Vielmas (ed.), *Science in the Nursery: The Popularisation of Science in Britain and France, 1761–1901*, in *British Journal for the History of Science* (June 2012)

Review of SG Kohlstedt, *Teaching Children Science: Hands-On Nature Study in North America, 1890-1920*, in *Metascience* 21 (2012), 497-499.

Review of M Faraday, *Chemical History of a Candle* (ed. F James), in *Viewpoint* 98 (2012), 9.

### Lectures, seminars and conferences

#### October 2011

'Fiction and Facts in Fairyland', *Science in Fiction Workshop*, Paris

#### November 2011

'What is the history of science?' talk to Year 13 students, Beauchamp College, Oadby

#### March 2012

'Stranger than fiction: Dickens, facts and the fairy-tales of science', *Charles Dickens and the Mid-Victorian Press*, University of Buckingham

'Science in Wonderland', alumni seminar, Homerton College, Cambridge

'Pinafores at the observatory? The story of the female computer', public talk, Institute of Astronomy, University of Cambridge

#### April 2012

'The child and the book of nature: familiar analogies in Victorian Britain', *The Child and the Book*, Cambridge/Homerton Research and Teaching Centre for Children's Literature

#### July 2012

'*Things Familiar*: object lessons in Victorian science and literature, 3 *Society Conference*, Philadelphia

## Elaine Leong

I joined the Department in September 2011 as a 3-year Wellcome Trust funded Research Fellow working on a project titled 'Reading and Writing Medicine in Early Modern England'. This year, I continued to work on a monograph provisionally titled 'Treasures for Health: Medical Knowledge and Practice in Early Modern English Households' and submitted an article 'Collecting Knowledge for the Family' to *Centaurus* (forthcoming, January 2013). With colleagues at the University of Saskatchewan, I started a new international research project on pre-modern recipes. The project, based at the University of Saskatchewan, will host a web-based portal for research on pre-modern recipes and produce crowd-sourced transcriptions of manuscript recipe collections. In May 2011, I

participated in ‘Writing Down Experience: How-To Books and Artisanal Epistemology’, a weekend seminar at the Folger Institute convened by Pamela H. Smith. On the teaching side, I supervised Part II and Part III dissertations and served as a Part IB examiner. Finally, I contributed to public History projects at the Wellcome Collection and at Lydiard House and Park in Swindon.

## **Publications**

### ***Edited books***

(with Alisha Rankin), *Secrets and Knowledge: Medicine, Science and Commerce 1500-1800* (Ashgate Publishing, 2011).

### ***Articles in books***

‘Introduction: Secrets and Knowledge’ (with Alisha Rankin), in E. Leong and A. Rankin (eds.), *Secrets and Knowledge: Medicine, Science and Commerce 1500-1800* (Ashgate Publishing, 2011).

### ***Reviews***

*Medical Authority and Englishwomen’s Herbal Texts, 1550-1650* by Rebecca Laroche in *Journal of British Studies* (50, 2011), pp. 481-2.

## **Lectures, seminars and conferences**

### *October 2011*

‘Healthcare and Housewifery’, Wellcome Collection, London.

### *March 2012*

‘Tweaking as Creating: Recipes and Knowledge Production in Early Modern England’, Clare Research Symposium, Clare College, Cambridge

### *April 2012*

‘Family, Friends and Neighbors: Recipe Networks in Early Modern England’, Situating Early Modern Networks Conference, University of Saskatchewan.

### *May 2012*

‘Reading, Writing and Testing Recipes: Informal Knowledge Production in Early Modern England’, History of Medicine Seminar, Centre for the History of Medicine, University of Exeter.

### *July 2012*

‘Reading Recipes in the Early Modern Household’, Histories of Household Medicine Conference, University of Warwick.

# **Geoffrey Lloyd**

## **Publications**

### ***Books***

*Greek Science* (one volume revised edition of *Early Greek Science* and *Greek Science after Aristotle*), (Folio Society, 2012)

*Being, Humanity and Understanding* (Oxford University Press, 2012)

### ***Articles in books***

‘Comparative Ethics: some methodological recommendations’ in R.A.H. King and D. Schilling (eds.) *How Should One Live?* (De Gruyter, Berlin, 2012), 18-21

‘The Greeks and the Chinese on the Emotions’, in R.A.H. King and D. Schilling (eds.) *How Should One Live?* (De Gruyter, Berlin, 2012), 241-258

‘Humanities in a Globalized World: *Vive l’Unité, Vive la Différence*’, in Zhang Longxi (ed.) *The Concept of Humanity in an Age of Globalization* (National Taiwan University Press, Taipei, 2012), 217-228



- ‘Mathematics and Narrative: an Aristotelian Perspective’, in A. Doxiadis and B. Mazur (eds.) *Circles Disturbed* (Princeton University Press, 2012), 389-406
- ‘Categorical Anachronisms and their Consequences for the History of Science’, in P. Olmos (ed.) *Greek Science in the Long Run* (Cambridge Scholars Publishing, 2012), 12-26
- ‘The pluralism of Greek “mathematics”’, in K. Chemla (ed.) *The History of Mathematical Proof in Ancient Traditions* (Cambridge University Press, 2012), 294-310

#### **Articles in journals**

- ‘Humanity between Gods and Beasts: Ontologies in question’, *Journal of the Royal Anthropological Institute* 17.4 (2011), 829-845
- ‘Lishixue de kexue zhaxue zhi yong’, *Kexue wenhua pinglun* 8.3. 5-15

#### **Reviews**

- Review of A. Vilaça, *Strange Enemies*, in *Journal of the Royal Anthropological Institute* 17.2 (2011), 419-420
- Review of S. Chrisomalis, *Numerical Notation: A Comparative History*, in *Isis* 101.4 (2011), 864-865

### **Lectures, seminars and conferences**

#### *October 2011*

- ‘Anthropology and Classics’, King’s Classical Society, King’s College, Cambridge
- ‘Problems in Comparative History of Science’, National University of Singapore (via Skype)

#### *January 2012*

- ‘Fire and Water’, Ad Hoc Chemistry Group, HPS Cambridge

#### *March 2012*

- ‘Reviewer meets reviewed: Mark Geller and G.E.R. Lloyd’, British Museum

#### *April 2012*

- ‘Physis in the Hippocratic Corpus’, Northern Association for Ancient Philosophy, University of Glasgow

#### *May 2012*

- ‘Anonymus Londinensis iv-viii’, May Week Seminar, Classics Faculty, Cambridge
- ‘Finley and Cambridge’, Conference on Moses Finley, Classics Faculty and Darwin College Cambridge

#### *June 2012*

- ‘Comparative Ancient Mathematics: the framework issues’, Inaugural Conference of Mathematical Sciences in the Ancient World, Paris
- ‘Physis in the Hippocratic Corpus’. University of Paris I, Sorbonne

#### *July 2012*

- ‘Reviewer meets reviewed: G.E.R. Lloyd and Aparecida Vilaça’, Royal Anthropological Institute, London

#### *September 2012*

- ‘Process-based versus substance-based ontologies’, Conference on Power Structuralism in Ancient Ontologies, Oxford

## **Tiago Mata**

Tiago Mata is a Senior Research Associate at the Department and Principal Investigator in the European Research Council funded project “Economics in the Public Sphere”. Since his arrival to the department, and in addition to the below, he has contributed one interview to the Portuguese newspaper *Journal de Negocios* (30 March 2012) on matters related to his research and numerous entries to the academic blog *History of Economics Playground*: <http://ineteconomics.org/blog/playground>.

## Publications

### Articles in books

'Invasion of the bloggers - a preliminary study on the demography and content of the economic blogosphere.' in D. Wade Hands and John B. Davis (eds.) *Companion to Recent Economic Methodology* (Edward Elgar 2012), 514-524.

### Online

'Killing Digital Curation' *Fortnight*: <http://fortnightjournal.com/tiago-mata/282-killing-digital-curation.html> (14 January 2012)

'Caricatures' *Fortnight*: <http://fortnightjournal.com/tiago-mata/295-caricatures.html> (28 January 2012)

'Reckonings' *Fortnight*: <http://fortnightjournal.com/tiago-mata/311-reckonings.html> (11 February 2012)

'Ethics in Economics' *Fortnight*: <http://fortnightjournal.com/tiago-mata/325-ethics-in-economics.html> (25 February 2012)

'Occupy the Imagination' *Fortnight*: <http://fortnightjournal.com/tiago-mata/339-occupy-the-imagination.html> (10 March 2012)

## Lectures, seminars and conferences

### January 2012

'Financiar investigacao em ciencias sociais', Faculty of Social Sciences, Technical University of Lisbon, Portugal.

### March 2012

'Speaking in tongues: a text analysis of economic opinion at Newsweek, 1975-2007', *Public Understanding of Science Seminars*, LSE, London; and at *Workshop on the History of Economics as History of Culture*, Universite Cergy-Pontoise, France.

### April 2012

Co-organizer of "The Economist as Public Intellectual" *Annual Conference of History of Political Economy*, Duke University, USA.

### May 2012

Co-organizer of Conference on the History of Recent Economics, HISRECO, University of Porto, Portugal.

'Political Economy in the Newsroom', *Annual Meetings of the European Society for the History of Economic Thought*, St. Petersburg, Russia.

'Speaking in tongues: a text analysis of economic opinion at Newsweek, 1975-2007', *Seminaire Historie de l'economie politique*, Universite Lyons 2, France.

Discussion leader for "Beyond the Welfare State by Gunnar Myrdal", *Market Square Research Group*, CRASSH, Cambridge.

### June 2012

'The economic origins of the documentary genre', Opening plenary at *Annual Meetings of the History of Economics Society*, Brock University, Ontario, Canada.

### July 2012

'Speaking in tongues: a text analysis of economic opinion at Newsweek, 1975-2007', *Cambridge Seminar in the History of Economic Analysis*, Clare Hall, Cambridge.

## Anita McConnell

In recent months Anita has been locating correspondence held in Britain relating to the British seismologists John Milne (1850-1913) and Robert Mallet (1810-1881) for the Italian Istituto Nazionale di Geofisica e Vulcanologia

## Lectures, seminars and conferences

July 2012

'Oceanography and the Board of Longitude'. Delivered at the Workshop for the Board of Longitude project, Royal Museum Greenwich.

# Simon Mitton

## Publications

### *Edited book*

(author Thomas Gold) *Taking the Back off the Watch: A personal memoir* (Springer, 2012)

### *Articles in books*

'Introduction to Thomas Gold FRS' in S Mitton (ed) *Taking the Back off the Watch: A personal memoir* (Springer, 2012)

### *Online*

*Ultra-compact lasers* <http://www.sciencewatch.com/ana/hot/phy2011/> (Thomson Reuters 2011)

*Supersymmetry at the Large Hadron Collider* <http://www.sciencewatch.com/ana/st/super/interview/> (Thomson Reuters 2012)

*Research Front: Constraining Consensus Cosmology* <http://sciencewatch.com/newsletter/2012/201207/physics/> (Thomson Reuters 2012)

Transits Transform the Quest for Earth-Like Planets <http://sciencewatch.com/newsletter/2012/201203/physics-cc/> (Thomson Reuters 2012)

## Lectures, seminars and conferences

January 2012

Geometry and cosmology in Antiquity and the Middle Ages

Conference: Architecture as Cosmology: Lincoln Cathedral and Bishop Robert Grosseteste (1235–53) Lincoln Cathedral, 21–22 January 2012

# James Moore

Last autumn Jim was interviewed twice by Wisconsin Public Radio for the popular science strand 'To the Best of Our Knowledge', transmitted on National Public Radio; and at Christ's College for the 15-part Spanish DirectTV series 'Londonium 2012', for broadcast in the Americas during the Olympics.

## Publications

### *Books*

(with Adrian Desmond) *Darwin's Sacred Cause: Race, Slavery and the Quest for Human Origins* (paperback edition, University of Chicago Press, 2011; first published 2009)

(with Adrian Desmond) *Darwin* (Turkish translation, Türkiye İş Bankası Kültür Yayınları, 2012; first English publication, 1991)

### *Articles in journals*

'Eloge: John Colton Greene, 1917-2008', *Isis* 103 (2012), 144-48

## Lectures, seminars and conferences

October 2011

Guest lecture, IDS 205, Science and the Nature of Evidence: Truth, Mind, and Body (Prof. Arri Eisen and Prof Peter Wakefield), Emory University, Decatur, Georgia

Public lecture, Fernbank Museum of Natural History and Graduate Institute of the Liberal Arts and Sciences, Emory University  
Guest lecture, Law 819/Pols 585/GH 526. Interdisciplinary Perspectives on Human Rights (Prof. Edward Queen), Emory University  
Guest lecture, Eng 358/AAS 358, African American Literature to 1900 (Prof. Lawrence Jackson), Emory University  
Lunchtime lecture, Program in Science & Society, Emory University  
Brownbag lunch research seminar, Department of the History of Science, University of Wisconsin, Madison  
Public lecture, The Isthmus Society Distinguished Lecture Series, co-sponsored by The Metanexus Institute's Global Network Initiative, The Lubar Institute for the Study of the Abrahamic Religions, UW-Madison Department of the History of Science, UW-Madison Department of Philosophy, UW-Madison Department of Zoology, University of Wisconsin, Madison  
Public lecture, Eighth Annual Joan Coffey Symposium, Sam Houston State University, Huntsville, Texas  
Guest lecture, Hist 1301, US History to 1877 (Prof. T. Cashion), Sam Houston State University, Huntsville, Texas

#### *February 2012*

Evo-Eco 1830-1870 – Evolutionary biology and economic theory: historical perspectives of a two-way relationship in the Darwinian period, Institut d'Histoire et de Philosophie des Sciences et des Techniques (IHPST), CNRS/Paris 1/ENS

#### *March 2012*

Public lecture, 'Humanitarismo, Ciència y Medicina, en la Paz i en la Guerra – ciclo de conferencias ...', Institución Milá y Fontanals, El Centro de Investigación en Humanidades del Consejo Superior de Investigaciones Científicas (CSIC) en Cataluña, Barcelona  
Public lecture, 'Colloquis de la SCHCT 2011-2012', Societat Catalana d'Història de la Ciència i de la Tècnica, Institut d'Estudis Catalans, Barcelona

#### *July 2012*

Guest lecture, Biol S-112 Study Abroad at Oxford: Darwin and the Origins of Evolutionary Biology (Dr Andrew Berry and Prof. Jim Costa), Harvard University Summer School, Cambridge, England  
Guest lectures, Evolutionary Biology: Darwin and The Origin of Species, Cambridge College Programme at University of Cambridge

#### *August 2012*

Guest lecture (with Prof. John Durant of MIT), Harvard Summer School Abroad, Clare Hall, University of Cambridge

#### *September 2012*

Public lecture, Cirencester Science and Technology Society, Royal Agricultural College, Cirencester

## **Joshua Nall**

My PhD research into popular media and late-Victorian debates over life on Mars is ongoing. In June 2012 I was selected by the BBC to be one of their ten 'New Generation Thinkers' for 2012/13, a project that includes contributing original content for BBC Radio 3's Night Waves programme, as well as occasionally participating in live panel discussions. My first piece aired at the end of June.

### **Lectures, seminars and conferences**

#### *April 2012*

'Michael Polanyi', introductory talk and chair for session one of 'Uses of the Social from Fleck to Kuhn', History and Theory Reading Group, Department of HPS, University of Cambridge

#### *July 2012*

'Channels of Communication: Martian Canals and the Meaning of Popular Science', *HSS/BSHS/CSHPS 3-Society Meeting*, University of Pennsylvania, Philadelphia, U.S.A.

# Jaume Navarro

Jaume Navarro was appointed this year Ikerbasque Research Professor at the University of the Basque Country (Spain).

## Publications

### Books

*A History of the Electron. J.J. and G.P. Thomson.* Cambridge University Press, Cambridge 2012.

### Edited books

*Science and Faith within Reason. Reality, Creation, Life and Design.* Ashgate, Farnham, 2011.

### Articles in books

'A Victorian theory of the Multiverse: 'The Unseen Universe' and the notion of Creation'. In J. Navarro (ed.) *Science and Faith within Reason. Reality, Creation, Life and Design.* (Ashgate: Farnham, 2011, 83-102).

### Reviews

Book review: 'Joao Magueijo. *A Brilliant Darkness: The Extraordinary Life and Mysterious Disappearance of Ettore Majorana, the Troubled Genius of the Nuclear Age*', *ISIS*, 102, (2), 2011, 373-374.

## Lectures, seminars and conferences

### June 2012

8<sup>th</sup> STEP Meeting, Corfu, Greece, 21-24 June 2012. Paper: "When the Centre becomes Periphery: Early Quantum Physics in Cambridge".

### July 2012

7<sup>th</sup> British-North American Joint Meeting of the BSHS, CSHPS and HSS, Philadelphia, USA, 11-14 July 2012. Paper: "A father of physical chemistry: J.J. Thomson in Philadelphia".

### August 2012

Keynote speaker at the Summer School 'Scientific Knowledge and the Transgression of Boundaries', of the Karlsruhe Institute of Technology and Universidad del País Vasco, 27—31 August, 2012, Donostia-San Sebastian. Paper: "Boundaries in the Physical Sciences".

# Hannah Newton

I joined the Department of History and Philosophy of Science in October 2011, to begin my three-year Wellcome Fellowship, 'Better by Degrees: Recovery from Illness in Early Modern England'. This project is about the perception, treatment, and experience of recovery from serious disease. I have devoted much of this year to the investigation of medical understandings of recovery through use of vernacular medical texts, asking what people thought was happening in the body during recovery. Besides the research, I have gained some valuable experience of supervision, co-supervising a Part II dissertation student, and several students for the Early Medicine course. In Lent term, I started organising a conference, to be held in September 2013, entitled, 'The Patient Revisited: Illness and Healing 1500-1800'; this has involved submitting a proposal to the Wellcome Trust for funding. Finally, my book *The Sick Child in Early Modern England, 1580-1720* (Oxford, 2012) was published in April, by Oxford University Press. Next year, I will turn my attention to the emotional and spiritual experiences of recovering patients and their families, and write up several chapters.

## Publications

### Books

*The Sick Child in Early Modern England, 1580-1720* (Oxford, 2012)

### **Articles in journals**

- 'Children's Physic: Medical Perceptions and Treatment of Sick Children in Early Modern England, c. 1580-1720', *Social History of Medicine*, 23 (2010), 456-74
- '"Not a Sadder Creature in the World": Parent's Grief in Seventeenth-Century England', *BBC History Magazine*, 11 (2010), 62-65
- '"Very Sore Nights & Days": The Child's Experience of Illness in Early Modern England, c. 1580-1720', *Medical History*, 55 (2011), 153-182 Online

### **Reviews**

- Crawford, Patricia, *Parents of Poor Children in England, 1580-1800* (2010), reviewed in *Women's History Review* (advanced access November 2011: 10.1080/09612025.2011.632941)
- Curth, Louise Hill, *The Care of Brute Beasts: A Social and Cultural Study of Veterinary Medicine in Early Modern Medicine* (2010), reviewed in *Social History of Medicine*, 24 (2011), 515-16
- Dijkhuizen, Jan Frans van, and Karl A.E. Enenkel (eds), *The Sense of Suffering: Constructions of Physical Pain in Early Modern Culture* (2008), reviewed in *Medical History*, 54 (2010), 279-80
- Mortimer, Ian, *The Dying and the Doctors: The Medical Revolution in Seventeenth-Century England* (2009), reviewed in *Local Population Studies*, 84 (2010), 116-17
- Peterson, Kaara L., *Popular Medicine, Hysterical Disease, and Social Controversy in Shakespeare's England* (2010), reviewed in *Social History of Medicine* (advanced access August 2011: doi: 10.1093/shm/hkr0952012)
- Poole, Rosemary, 'A Truly Happy and Affectionate Family': *Life Among the Denmans, Crofts and Baillies 1733-1847* (2008), reviewed in *Medical History*, 55 (2011), 262-63
- Woods, Robert, *Children Remembered: Responses to Untimely Death in the Past* (2006), reviewed in *Medical History*, 53 (2009), 324-25

### **Online**

- 'A Spoonful of Sugar or a Bitter Blocker', University of Cambridge Research Discussion, <http://www.cam.ac.uk/research/discussion/a-spoonful-of-sugar-or-a-bitter-blocker/>
- 'Bathing with Sheep's Heads: The Sick Child in Early Modern England', Wellcome Library Guest Blog: <http://wellcomelibrary.blogspot.co.uk/2012/07/guest-post-bathing-with-sheeps-heads.html>

### **Lectures, seminars and conferences**

#### *November 2011*

Early Medicine Seminar at the University of Cambridge: '"Nott a Sadder Creature in the World": Parental Grief in Early Modern England, 1580-1720'

#### *February 2012*

Interdisciplinary Early Modern Seminar at the University of Cambridge: '"Cur'd in a Different Manner": Children's Medicine in Early Modern England, c.1580-1720'

#### *July 2012*

New Forest Mother's Union, Brockenhurst: '"With Great Care & Pains": Caring for the Sick Child in Early Modern England'

#### *September 2012*

Society for the Social History of Medicine: Emotions, Health, and Wellbeing at Queen Mary University of London: '"Trembling with Joy": Responses to Recovery in Early Modern England, 1580-1720' (Pulled out due to illness)

## **Alison Pearn**

Associate Director, Darwin Correspondence Project. Trustee, Menagerie Theatre Company, Cambridge. Member, Digital HPS Consortium.

### **Lectures, seminars and conferences**

#### *November 2011*

'Taking Scholarship into Schools' poster presentation, Berlin 9 Open Access conference, Washington, DC.

February 2012

'Charles Darwin: a life in letters', Pembroke College Ivory Towers Society, Cambridge

March 2012

2012: 'Falling Foul of Natural Selection: Samuel Butler and the Darwins', Butler Day, St John's College, Cambridge (Science Festival)

June 2012

'10 Things I wish I'd known before I started this project', This Project Will Self-Destruct in Five Years, postgraduate workshop, CRASSH, Cambridge

July 2012

'Darwin Hates You!': Owen, Mivart, and Butler, Darwin's failed friendships in theory and practice. HSS/BSHS/CSHPS 3-Society Meeting Philadelphia

## Ruth J. Prince

This year I have been pursuing my research project, "Local Medical Practice and Global Health Interventions: An Ethnographic Study of Biomedicine in Kenya". My edited book, "Making Public Health in Africa: Ethnographic Perspectives" was reviewed and accepted by Ohio University Press and will be published in 2013.

My co-authored monograph, *The Land is Dying: Contingency, Creativity and Conflict in Western Kenya*, (with P.W.Geissler) (Oxford: Berghahn books), was awarded the Royal Anthropological Institute's 2010 Amaury Talbot Prize for Best Book in African Anthropology.

### Publications

R.Marsland & R.J. Prince (eds.) Special Issue. *What is Life Worth? Exploring Biomedical Interventions, Survival and the Politics of Life* (special issue for *Medical Anthropology Quarterly* vol 26 (3), to be published October 2012).

#### Articles in books

Prince, R.J. 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.

#### Articles in journals

R.Marsland & Prince R.J. (eds.) "Introduction: What is Life Worth?" Special Issue, "Exploring Biomedical Interventions, Survival and the Politics of Life", *Medical Anthropology Quarterly* vol 26 (3).

Prince, R.J. The Moral Economy of HIV in an East African City. *Medical Anthropology Quarterly* 26 (3) (special issue on 'What is Life Worth'), October 2012.

#### Online

Online Review of Ph.D Dissertation; "A Healthy Child Comes from a Healthy Mother." Mwanamugimu & Nutritional Science in Uganda, 1935-1973, by Jennifer Tappan. University of Columbia. Science Studies Dissertation Reviews, <http://dissertationreviews.wordpress.com>

#### Reviews

Prince, R.J. "Science, Knowledge and Colonial Rule in Africa". Review Essay of Helen Tilley, *Africa as a Living Laboratory*. Chicago: University of Chicago Press. *Studies in the History and Philosophy of Science Part C. Studies in History and Philosophy of Biological and Biomedical Sciences*. In print (available online, August 2012).

### Lectures, seminars and conferences

October 2011

*Volunteers in Africa and Beyond: Labour, Altruism and Citizenship in Neoliberal Economies*, Conference convened by R. Prince, Centre of African Studies, Cambridge.

“Volunteering and the Public Good in Kenya”. *Volunteers in Africa and Beyond: Labour, Altruism and Citizenship in Neoliberal Economies*, Centre of African Studies, Cambridge.

November 2011

“Exposure: Making Knowledge and Life in western Kenya”, *Seminar, Department of Social Anthropology*, Cambridge

“Tarmakking in an NGO economy: Hopes and Trajectories of Kenyan Youth”. *African Research Seminar*, Cambridge

“Growth, Generation and Gender in western Kenya.” *Research Seminar, University of Oxford, Institute of Social and Cultural Anthropology*

April 2012

“Navigating the African City: Conversions of Knowledge and Trajectories of Empowerment in Kenya.” *Street-Level Health Workers in Six African Cities: Geographies of Work, Responsibility and Entitlement*, LSHTM

May 2012

“Humanitarianism and the Moral Economy of Suffering and Survival: Biopolitics in Kenya?” *Biopolitics and Humanitarian Citizenship*, University of Manchester

June 2012

“Drugs, bodies and Science in Africa”. *Epicenter: the study of cultural epidemics*, Klitgarden, Skagen (Denmark)

## Sadiah Qureshi

### Publications

*Peoples on Parade: Exhibitions, Empire and Anthropology in Nineteenth-Century Britain* (University of Chicago Press, 2011)

#### Articles in books

‘Meeting the Zulus: Displayed Peoples, British Imperialism and the Shows of London, 1853–1879’, in Joe Kember, John Plunkett, & Jill Sullivan (eds), *Instruction, Amusement, Spectacle: Popular Exhibitions, 1840–1914* (Pickering & Chatto, 2012), 183–198

#### Articles in journals

‘Peopling the Landscape: Showmen, Displayed Peoples and Travel Illustration in Victorian Britain’, *Early Popular Visual Culture*, 10 (2012) 23–36

### Lectures, seminars and conferences

January 2012

‘Advertising Displayed Peoples’, *Autour des zoos humains*, Musée du Quai Branly

March 2012

“‘A Peep at the Natives’”: Displayed Peoples, Exhibitions and the Natural History of Race in Nineteenth-Century Britain’, *Victorian Studies Centre Seminar*, University of Leicester

May 2012

“‘A Peep at the Natives’”: Exhibitions, Empire and the Natural History of Race in Nineteenth-century Britain’, *Wellcome Unit for the History of Medicine Seminar*, University of Oxford

‘Displayed Peoples in Nineteenth-Century British International Fairs’, *Autour de l’Invention de la «Race»*, Université de Lausanne

June 2012

‘Dying Americans: Race, Conservation and the New World’, *Heritage in the Modern World: Historical Preservation in Global Perspective*, Brighton



July 2012

“‘A Peep at the Natives’: Exhibitions, Empire and the Natural History of Race in Nineteenth-century Britain’, *Race, Nation and Empire on the Victorian Popular Stage*, University of Lancaster

## Jennifer Rampling

Jenny started the final year of her Wellcome Trust postdoctoral fellowship. She lectured on the new HPS Part II papers 2 and 3 and examined for Part IB. She was appointed Editor of *Ambix* (effective from 2013), and founding General Editor (with Lawrence Principe) of *Sources of Alchemy and Chemistry*, a new series of critical editions of Greek, Syriac, Arabic and Hebrew texts, to be published as monograph-length supplements to *Ambix*. She was a visiting researcher at the Department of Chemistry, where she re-enacted some medieval alchemical experiments for BBC4. She was also a consultant for *Signs, Symbols, Secrets*, a new exhibition at the Science Museum, London (opened April 2012); and THALES, a digital archive of Greek alchemical manuscripts sponsored by the National Hellenic Research Foundation. She joined the programmes committees of the BSHS and the History of Science Society’s new Forum for the History of the Chemical Sciences (FoHCS), and continued to serve on the Council of the Society for the History of Alchemy and Chemistry (SHAC) and to edit its newsletter, *Chemical Intelligence*. In HPS, she co-convoked the AD HOC reading group (with Hasok Chang), and the third SHAC Workshop on the History of Alchemy and Chemistry, ‘Representing alchemy and chemistry’ (with Jo Hedesan). For the 2012 Three Societies Meeting, she organised panels on ‘Beyond transmutation: the goals of alchemy’ (for SHAC) and ‘Transatlantic reactions: translating chemistry between continents’ (for FoHCS, with Robert Bud and Yoshi Kikuchi). She signed advance contracts for two books: *The Making of English Alchemy* (with Chicago) and *The Hidden Stone* (with OUP), and is co-editing a volume of essays, *Alchemy and Medicine from Antiquity to the Enlightenment*, with Peter Jones. She completed a degree in Classics.

### Publications

#### Guest-edited journals

‘John Dee and the Sciences: Early Modern Networks of Knowledge.’ Special issue of *Studies in History and Philosophy of Science*, 43 (2012)  
(with D Bobory) ‘Alchemy on the Fringes: Communication and Practice at the Peripheries of Early Modern Europe.’ Special issue of *Early Science and Medicine*, 17 (2012)

#### Articles in journals

Introduction to ‘John Dee and the Sciences: Early Modern Networks of Knowledge.’ *Studies in History and Philosophy of Science*, 43 (2012), 432–436  
‘John Dee and the alchemists: practising and promoting English alchemy in the Holy Roman Empire’ in *Studies in History and Philosophy of Science*, 43 (2012), 498–508  
(with D Bobory) Introduction to ‘Alchemy on the Fringes: Communication and Practice at the Peripheries of Early Modern Europe,’ *Early Science and Medicine*, 17 (2012), 467–476  
‘Transmission and transmutation: George Ripley and the place of English alchemy in early modern Europe’ in *Early Science and Medicine*, 17 (2012), 477–499

#### Online/media

*World Update*, BBC World Service (October 2011)  
*Night Waves*, BBC Radio 3 (April 2012)  
*In Spirit*, BBC London (April 2012)  
*Material World*, BBC Radio 4 (May 2012)  
*The History of Art in Three Colours*, BBC4 (July 2012)  
‘Tried by Fire’ in *The Chemical Heritage Magazine* (Fall 2012/Winter 2013), 40–41

### Lectures, seminars and conferences

#### October 2011

‘Alchemy and patronage in Tudor England’, lunchtime lecture, The Royal Society of London  
“‘They let you do that?’ Alchemy and other improbable research’, Clare Hall, Cambridge  
(with S Seavers) ‘Gold and lead’, AD HOC, HPS, Cambridge  
‘Trick or treatise? Alchemy as natural magic’, Cabinet of Natural History, HPS, Cambridge

#### November 2011

'The transmutation of alchemical medicine in early modern England', HSS Annual Meeting, Cleveland, Ohio

'Alchemy and incompleteness: practically making the philosophers' stone', Festival of Materials and Making, King's College London

'The *Ripley Scroll* unrolled: alchemy and art in Renaissance Europe', Fitzwilliam Museum, Cambridge (with 'live unrolling' of Fitzwilliam Museum MS 276)

#### December 2011

'The phoenix in the library: using marginal illuminations to trace alchemical manuscripts in Tudor England', Cambridge Bibliographical Society

#### February 2012

'The *Ripley Scrolls* in relation to art objects', Museum Kunstpalast (Düsseldorf) and the Max Planck Research Group 'Art and Knowledge in Pre-Modern Europe' joint workshop, MPIWG, Berlin

#### March 2012

'Recreating the "vegetable stone": medieval alchemy and patronage in Tudor England', University of Wales Institute of Medieval and Early Modern Studies (IMEMS), Lampeter

'New wine in old bottles: replicating alchemical experiments', 4th Conference on Integrated History and Philosophy of Science (&HPS4), Athens

(with H Chang) 'Alchemy, science and transformation', Historical Archive of the University of Athens

#### April 2012

Opening address, *Signs, Symbols, Secrets: An Illustrated Guide to Alchemy* exhibition launch, Science Museum, London

#### June 2012

'Alchemy as "practical exegesis" in early modern England', *Osiris* workshop, Uppsala University

'Transmutation and its discontents: theory choice in medieval alchemy', 7th Integrated HPS Workshop, UCL

#### July 2012

'Medicine and the pursuits of alchemy', Three Societies Meeting, Philadelphia

'Making quintessence of gold', BJHS 50th Anniversary Reception, Three Societies Meeting, Philadelphia

'The mirror of alchemy: images and reflections', *The Mirror* workshop, Wying Arts Centre, Cambridge

#### August 2012

'Transmutation and its discontents: theory choice in medieval alchemy', International Society for the Philosophy of Chemistry Summer Symposium, Katholieke Universiteit Leuven

## Nicky Reeves

Nicky continued his postdoctoral research on the AHRC sponsored Board of Longitude Project. With help from Katy Barrett and Josh Nall, he curated an exhibition in the Whipple Museum entitled *Navigation and Commerce, their Original and Progress*, which used Board of Longitude archives and instruments from the Whipple collection, and included the museum world's first ever diorama recreating the Mason and Dixon survey using Playmobil.

### Lectures, seminars and conferences

#### March 2012

'Playmobil and its Discontents', National Maritime Museum, Greenwich

## Eleanor Robson

I spent this year on sabbatical leave, spending the first six months at the Institut für Assyriologie at Ruprechts-Karls-Universität Heidelberg as the holder of a Bessel Forschungspreis of the Alexander von Humboldt Stiftung. In November I was awarded the History of Science Society's Pfizer Prize for the best academic book in history of

science, 2008–11, for *Mathematics in Ancient Iraq: A Social History* (Princeton, 2008), which is soon to appear in Arabic translation. In February I became the The British Institute for the Study of Iraq's Chair of Council (www.bisi.ac.uk).

## **Publications**

### **Articles in books**

'The discovery of Professor von Saalbrandt: a Philadelphia story' in W Heimpel and G Frantz-Szabo (eds) *Strings and Threads: a Celebration of the Work of Anne Draffkorn Kilmer* (Eisenbrauns, 2011), 207–230

'Learning mathematics and science in the ancient Middle East' in N Al-Mulki and F Fasanelli (eds) *Building Mathematical and Scientific Talent in the BMENA Region (Broader Middle East and North Africa)* (American Association for the Advancement of Science, 2011), English section 9–27; Arabic section 9–30

### **Articles in journals**

(with G Chambon) 'Untouchable or unrepeatable? The upper end of the Old Babylonian capacity and area systems', *Iraq* 73 (2011), 73–127

### **Online**

(with S J Tinney and N Veldhuis) continued curation, development and documentation of *The Open Richly Annotated Cuneiform Corpus*: oracc.museum.upenn.edu, now hosting over 30 projects; Oracc 2 launched in July 2012

### **Reviews**

Review of P Harrison, R L Numbers and M H Shank (eds) *Wrestling with Nature: From Omens to Science*, in *Centaurus* 54 (2012), 192–193

Review of F Rochberg, *In the Path of the Moon: Babylonian Celestial Divination and its Legacy*, in *Isis* 102 (2012), 754–755

## **Lectures, seminars and conferences**

### *October 2011*

'Assyriology: a meta-justification', *Department of Near Eastern Studies Futures Seminar*, Johns Hopkins University, Baltimore

### *December 2011*

'Geographies of scholarship in first-millennium Assyria', Institut für Assyriologie und Hethitologie, Ludwig-Maximilians-Universität Munich

### *January 2012*

'Neo-Assyrian scholarship: a geographical analysis', Institut für Assyriologie, Ruprecht-Karls-Universität Heidelberg

'Historicising the scholarship of first-millennium Mesopotamia', Institut für die Kulturen des Alten Orients, Eberhard-Karls-Universität Tübingen

### *July 2012*

'Concepts and uses of mathematics in the ancient Middle East', keynote lecture at annual joint meeting of King Abdullah University of Science and Technology and the Oxford Centre for Collaborative Applied Mathematics, Mathematical Institute, University of Oxford

### *August 2012*

'Cradle of civilisation, navel of the world: why Iraq's cultural heritage matters', *Catastrophe!* Exhibition opening, Great North Museum, Newcastle

### *September 2012*

'Geographies of knowledge in Assyria and Babylonia', Department of Near Eastern Studies, UC Berkeley, California

# Leon Rocha

Leon Rocha is Research Fellow at Emmanuel College, Cambridge, affiliated with the Department of History and Philosophy of Science, Faculty of Asian and Middle Eastern Studies, and the Needham Research Institute. He was also International Research Fellow at the Dahlem Humanities Center, Freie Universität Berlin in 2012. He was the principal organiser of the conference *Reproducing China: Childbirth, 'One Child' and Beyond*, held at the Centre for Research in the Arts, Social Sciences and Humanities (CRASSH) in Cambridge, with the support of the Cambridge Humanities Research Grant, University of Westminster, Needham Research Institute, Department of East Asian Studies and the 'Generation to Reproduction' Wellcome Trust Strategic Award held by the Department of History and Philosophy of Science. Rocha also became the Managing Editor of *Dissertation Reviews*, and editor of its Science Studies and Medical Anthropology series (<http://dissertationreviews.org>), in collaboration with Thomas Mullaney at Stanford University. At HPS, Rocha lectured on the history of sexuality for Part II Paper 10, delivered the Primary Source seminar on J.B.S. Haldane's 'Daedalus' and Bertrand Russell's 'Icarus' for Part II Paper 7, and co-organised the 'Twentieth Century Think Tank' seminar series with Anna Kathryn Schoefert. He also gave lectures on the dynastic history of China, globalisation and China, and China and birth control for the Faculty of Asian and Middle Eastern Studies and Faculty of History in Cambridge. He co-taught a course on the history of Asian medicine with Theresia Hofer at University College London, and gave 11 hours of lectures on Chinese medicine. His co-edited volume with Robbie Duschinsky, *Foucault, the Family and Politics* will be published by Palgrave Macmillan in December 2012.

## Publications

### Articles in journals

'The way of sex: Joseph Needham and Jolan Chang', *Studies in the History and Philosophy of Biological and Biomedical Sciences* 43 (2012), 611-626

### Reviews

Review of T S Mullaney, *Coming to Terms with the Nation: Ethnic Classification in Modern China*, in *Isis* 102 (2011), 587-588

Review of Liu Wennan, "'No Smoking" for the Nation: Anti-Cigarette Campaigns in Modern China', in *Dissertation Reviews*, <http://dissertationreviews.org/archives/754>.

Review of A Leung and C Furth (eds.), *Health and Hygiene in Chinese East Asia: Policies and Publics in the Long Twentieth Century*, in *Journal of Asian Studies* 71 (2012), 217-219

Review of L H Liu, *The Freudian Robot: Digital Media and the Future of the Unconscious*, in *Metascience* 21 (2012), 435-438

## Lectures, seminars and conferences

### October 2011

'The way of sex: Joseph Needham and Jolan Chang', *China Research Seminar*, Faculty of Asian and Middle Eastern Studies, University of Cambridge

### March 2012

'The Genealogy of the "Needham Complex"', *Politics and Contexts of Science Studies during the Cold War and Beyond*, Alfred Krupp Wissenschaftskolleg Greifswald

### April 2012

'The Figure of India in Joseph Needham's *Science and Civilisation in China*', *Intersections: New Perspectives on Science and Technology in Twentieth Century India and China*, King's India Institute, King's College London

### June 2012

'Creating a Canon of "Chinese Sexology": Ye Dehui's *Shadow of the Double Plum Tree Anthology (Shuangmei jing'an congshu, 1903-1914)*', *Sexology and Translation: Scientific and Cultural Encounters in the Modern World, 1860-1930*, Birkbeck, University of London

# Martin Rudwick

I served on the International Board of the Descartes Centre for the History and Philosophy of the Sciences, Utrecht University (The Netherlands).

## Publications

### *Articles in books*

'[Jean-André Deluc:] Geologist' in J L Heilbron and René Sigris (eds) *Jean-André Deluc: Historian of Earth and Man* (Slatkine, 2011), 241-260

# Christine F. Salazar

This year, I have been continuing work on my translation (with commentary) of Galen's commentary on Hippocrates' *Prognostics*, as Research Associate of the Wellcome-funded 'Towards a Galen in English' project headed by Prof. Philip J. van der Eijk (now at the Humboldt-Universität, Berlin), which will probably run until the end of 2014. I am also 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*.

The first of my three students writing dissertations on Graeco-Roman medicine at the Medizinische Universität Wien (Vienna) has graduated in July, and I am about to take on two more dissertations there as supervisor.

Last year I was invited by Prof. van der Eijk to work on a new project (on the medical encyclopaedias of late antiquity) for which he was preparing an application to the DFG (Deutsche Forschungsgemeinschaft). In May we heard that the application, as part of a *Sonderforschungsbereich* (SFB), 'Episteme in Bewegung', had been successful. I am still waiting for my contract with the Humboldt-Universität, but I expect to split my time between the two projects from January 2013.

## Lectures, seminars and conferences

### *November 2011*

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

### *December 2011*

Lectures on Ancient Medicine at the Medizinische Universität Wien, Vienna, Austria.

### *June 2012*

Conference: Penn-Leiden Colloquium on Ancient Values VII, 'Valuing Antiquity in Antiquity', Leiden University, The Netherlands.

Workshop for the 'Towards a Galen in English' project at Leiden University, The Netherlands.

### *July 2012*

Conference: Arbeitskreis Alte Medizin, Mainz, Germany.

# Simon Schaffer

Simon Schaffer continued work as a principal investigator on the AHRC project on the Board of Longitude. In Michaelmas Term 2011 he was chair of the HPS Board, director of graduate studies and manager of the Part 2 programme in history and philosophy of science. In Easter Term 2012 he took sabbatical leave to pursue research on the history of astronomy and the British Empire. He broadcast for BBC Radio 4 on the history of writing (January 2012) and on scientific method (January 2012) and contributed to a Channel 4 TV documentary on Alan Turing and a BBC World TV documentary on the eighteenth century Enlightenment.

## Publications

### Articles in books

- 'Newtonian angels' in Joad Raymond (ed) *Conversations with angels: essays towards a history of spiritual communication* (Palgrave, 2011), 90-122
- 'What does digitality do to the arts?' in Pasquale Gagliardi (ed) *The miracle of Cana: the originality of the re-production* (Cierre Edizioni, 2011), 117-27
- 'In transit: European cosmologies in the Pacific' in Kate Fullagar (ed), *The Atlantic world in the Antipodes* (Cambridge Scholars, 2012), 70-93

### Articles in journals

- 'Easily cracked: scientific instruments in states of disrepair', *Isis* 102 (2011), 706-17
- 'Transport phenomena: space and visibility in Victorian physics', *Early popular visual culture* 10 (2012), 71-91
- 'Public trials and climate shows', *Current anthropology* 53 (2012), 230-2 & 241
- 'The Bombay case: astronomers, instrument makers and the East India Company', *Journal for the history of astronomy* 43 (2012), 151-80

## Lectures, seminars and conferences

### October 2011

'Artefacts', in seminar series 'Things: material culture in the long eighteenth century', CRASSH, Cambridge

### November 2011

- 'Maxwell on the ether', in Philosophy and History of Physics reading group, HPS, Cambridge
- 'Information orders and scientific repute in late eighteenth century knowledge networks', workshop on 'Mechanisms of cultural exchange', St John's College, Cambridge

### January 2012

'Whewell on history and philosophy of the inductive sciences', History and Theory reading group, HPS, Cambridge

### March 2012

- 'The media magnates of Victorian physics', H G Wells Lecture, University of Kent, Canterbury
- 'Airy, Challis and the Northumberland telescope', Cambridge Science Festival, University Library Cambridge
- Closing summary, workshop on Non-human empires, HPS, Cambridge

### September 2012

Conference Organiser, 'Revisioning the world: myths of universal knowledge and aesthetics of global imagining', Fondazione Giorgio Cini, Venice

Closing summary, 'We need to talk about things', CRASSH, Cambridge

## Anna Kathryn Schoefert

Anna Kathryn Schoefert is a first-year PhD student in the Department funded by the Gates Cambridge Trust and the AHRC. She co-organised the 'Twentieth Century Think Tank' seminar series with Leon Rocha.

## Lectures, seminars and conferences

### October 2011

'Placing a laboratory: botanical buildings in Cambridge around 1900', *Cabinet of Natural History*, Department of History and Philosophy of Science, University of Cambridge

### June 2012

'Diagnosing brain tissue: Neuropathology in the mid-twentieth-century asylum and beyond', *History of Skill in Medicine and Science: A Social Studies of Medicine Workshop*, Department of Social Studies of Medicine, McGill University, Montreal

July 2012

'Mapping out a science: Joseph Needham's "A Chart to Illustrate the History of Biochemistry and Physiology (Cambridge, c.1924)', *Seventh British-North American Joint Meeting of the BSHS, CSHPS, and HSS*, Philadelphia

## Anne Secord

### Lectures, seminars and conferences

December 2011

"'One soweth, another reapeth": William Jackson Hooker and nineteenth-century botany', *Sir Joseph Dalton Hooker Centenary Celebrations*, Royal Botanic Gardens, Kew

January 2012

'Man of letters: Gilbert White's paper world', *Worlds of Paper: Writing Natural History from Gessner to Darwin*, Linnean Society of London

## 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. The Einstein Foundation has extended her Visiting Fellowship, supporting her work with the Excellence Cluster TOPOI: The Formation and Transformation of Space and Knowledge in Ancient Civilizations, for a further two years (until 2014). In November 2011, she participated in a broadcast of *In Our Time: Ptolemy and Ancient Astronomy*, presented by Melvyn Bragg for BBC Radio 4 (podcast at <http://www.bbc.co.uk/programmes/b017528d>). 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. 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

#### *Editor of special journal issues/sections*

(with Aude Doody and Sabine Föllinger) *Structures and strategies in ancient Greek and Roman technical writing*, special issue of *Studies in History and Philosophy of Science* 43 (2012)

*Focus section: The History of Scientific Instruments*, *Isis* 102 (December 2011)

#### *Articles in books*

'Physiological analogies and metaphors in explanations of the earth and the cosmos', in *Blood, Sweat and Tears – The Changing Concepts of Physiology from Antiquity into Early Modern Europe*, eds. M. Horstmanshoff, H. King, C. Zittel, Leiden: Brill, 2012, pp. 41-63

#### *Articles in journals*

(with Aude Doody and Sabine Föllinger) '[Structures and strategies in ancient Greek and Roman technical writing: An Introduction](#)', in *Structures and strategies in ancient Greek and Roman technical writing*, special issue of *Studies in History and Philosophy of Science* 43 (2012) 233-236

'[Re-engaging with Instruments](#)', introduction to commissioned Focus section: *The History of Scientific Instruments*, *Isis* 102 (December 2011): 689-696

#### *Reviews*

Review of S. Berryman, *The Mechanical Hypothesis in Ancient Greek Natural Philosophy*, in the *Journal of Hellenic Studies* 131 (2011), 268

## Lectures, seminars and conferences

March 2012

'Genres of Ancient Science: The Cases of Poetry and Mathematics', Cardiff & District Classical Association Workshop on Genres of Ancient Scientific, Technical and Medical Texts, Excellence Cluster TOPOI, Berlin (co-organiser, with Aude Doody and Sabine Föllinger)

July 2012

'The *Greek anthology*: education, mythology and mathematics' Ancient Empires Summer School plenary lecture, University of Cambridge

September 2012

*Books and Quotes: Scientific Works and Scholarly Editions in the 2nd Century AD*, the Berlin-Brandenburgische Akademie der Wissenschaften (co-organiser with Roland Wittwe)

## Laurence Totelin

Laurence carried on working on the book she is co-authoring with Gavin Hardy, *Ancient Botany*. She gave birth to her second son, Gwilym Jacques, on April 25<sup>th</sup>.

### Publications

#### Articles in journals

'And to end on a poetic note: Galen's authorial strategies in the pharmacological books', *Studies in History and Philosophy of Science* 43 (2012), 307-315.

#### Reviews

Review of C. Nissen, *Entre Asclépios et Hippocrate. Étude des cultes guérisseurs et des médecins en Carie*, in *Classical Review* 62 (2012), 61-62.

Review of B. Holmes, *The Symptom and the Subject: The Emergence of the Physical Body in Ancient Greece*, in *Isis* 102 (2011), 551-552.

Review of J. Scarborough, *Pharmacy and Drug Lore in Antiquity: Greece, Rome, Byzantium*, in *Aestimatio* 8 (2011), 116-120.

## Lectures, seminars and conferences

November 2011

'Botanizing rulers and their herbal citizens: Plants and political power in Greek and Roman literature', C Caucus Seminar, Classical Association, Bristol Branch

February 2012

'Godly *pharmaka* in the early Roman Empire', Religion Research Series 2011-2012, School of History, Archaeology and Religion, Cardiff University

## Rick Welch

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



## **Publications**

### ***Edited books***

(with K Finneran and JD Talasek) *Visual Culture and Evolution* (US National Academy of Sciences, 2011).  
[Proceedings of an online symposium held 5-14 April 2010, cosponsored by the US National Academy of Sciences, the Johns Hopkins University, and the University of Maryland. Rick Welch was a co-organiser of the symposium and a contributing panellist for the online event. In addition to co-editing the proceedings, he wrote the Preface for the book. See [http://nas.nasonline.org/site/PageServer?pagename=Experience\\_Future\\_Events\\_Vcande.](http://nas.nasonline.org/site/PageServer?pagename=Experience_Future_Events_Vcande.)]

### ***Articles in journals***

(with JS Clegg) 'Cell versus protoplasm: revisionist history', *Cell Biology International* 36 (2012), 643-647.

## **Lectures, seminars and conferences**

### *July 2012*

Panellist at the Workshop, *Cultivating Common Ground: Biology and the Humanities*, University of Reading, UK.

# **Paul White**

Organized 'Darwin and Human Nature' conference at CRASSH, May 2012.

## **Publications**

### ***Edited books***

(with J. Secord, *et al.*) *The Correspondence of Charles Darwin*, vol. 19 (Cambridge University Press, 2012)

### ***Articles in journals***

"Darwin, Concepción, and the Geological Sublime, *Science in Context* 25 (2012): 49-72

## **Lectures, seminars and conferences**

### *October 2011*

'The Face of Emotion', Festival of Ideas, University Library, Cambridge

### *November 2011*

'National Feeling: The Emotional State in Britain, 1750-1800', Queen Mary University of London

### *December 2011*

'Darwin, Hooker and the Circle of Friendship', Hooker Centenary, Kew

### *March 2012*

'Darwinian Networks', Ecole Normale Superior, Paris

### *May 2012*

'Darwinian Masculinities', Darwin and Human Nature, CRASSH, Cambridge

### *July 2012*

'Wounded Nation', Visual Culture and the Revolutionary and Napoleonic Wars, Tate Britain

### *September 2012*

'Darwins' Queries on Expression and the Imperial Archive', Max-Planck-Institute for the History of Science, Berlin

# Frances Willmoth

Was admitted to a Class A Fellowship at Jesus College on 3 October 2011, accompanied by a College Lectureship in History and Philosophy of Science. This was granted in recognition of her years of service to the College as Director of Studies for HPS and as Archivist.

## Publications

### Articles in books

'Rømer, Flamsteed, Cassini og lysets hastighed', in Karin Tybjerg, Jakob Danneskiold-Samsøe and Per Friedrichsen (eds) *'Ole Rømer - I kongens og videnskabens tjeneste'*, (Aarhus: Aarhus University Press, 2011), 171-194

### Articles in journals

'Roëmer, Flamsteed, Cassini and the speed of light', *Centaurus* 54 no. 1 (Feb. 2012), 39-57

## Lectures, seminars and conferences

### May 2012

'Stars, maps, practical maths and some pieces of college history', a talk for Jesus College MCR (after a dinner with a historically-influenced menu, devised by myself)

# Catherine Wilson

Research interests include historical epistemology; atomism and matter theory; early modern philosophy (Descartes, Locke, Leibniz); Kant; 18<sup>th</sup> century anthropology and life science. Papers in press are on Newtonian matter theory, Ernst Mach and Robert Musil, and Kant's critical philosophy.

## Publications

### Articles in books

'Wissen' (*Dachartikel*) *Enzyklopaedie der Neuzeit*, 16 vols. Stuttgart, Metzler, 2012. vol.15, pp. 1-30.

## Lectures, seminars and conferences

### October 2011

New York City, NYU, Colloquium on Lucretius and Modernity. "Lucretius and the Speculative Sciences of Origins."

### January 2012

University College, Dublin, Philosophy Colloquium, 'The Puzzle of External Reasons'

### February 2012

Tilburg University, Netherlands, "The Puzzle of External Reasons"

### March 2012

Durham University, Philosophy Colloquium, 'The Puzzle of External Reasons'  
University of East Anglia, Philosophy Colloquium, 'The Puzzle of External Reasons'  
University of Dundee, Philosophy Colloquium, 'The Puzzle of External Reasons'

### April 2012

Cambridge, 'Moral Sensibility in Darwin's Notebooks' Darwin and Human Nature Conference.

May 2012

Cambridge University, History and Philosophy of Science Seminar, 'Lucretian Pessimism: What was Kant's Critical Philosophy Critical of?'  
Merton College, Oxford "Lucretius and Modernity" Item

June 2012

"Grief and the Poet" White Rose Aesthetics Colloquium York

## Lydia Wilson

Lydia continued postdoctoral work on the Scientific Heritage Project in the Department, setting up an international working group for the preservation of recent scientific heritage, and completing the final report of the project which including recommendations for best practice in this difficult and important area. She continued working as a fellow for ARTIS Center for Conflict Resolution, and as editor of the *Cambridge Literary Review*. Lydia is moving to New York to take up the position of Visiting Assistant Professor at the Mellon Committee for the Study of Religion at City University New York, working on emerging political narratives in post-Mubarak Egypt.

### Publications

#### *Edited books*

(with B. Jardine) *Cambridge Literary Review* (vol. III, no. 6, summer, 2012)

#### *Articles in books*

'Scientific Heritage in Cambridge', In S Talas and M Lourenço (eds) *Arranging and rearranging: Planning university heritage for the future* (Padova University Press, 2012), 129-135

'Intangible histories and the invisible technician', in C Weber (ed) *University Museums and Collections Journal* (2012)

#### *Reviews*

Review of *A Ben-Zaken, Reading Hayy Ibn-Yaqzan: A Cross-Cultural History of Autodidacticism in the Times Literary Supplement* (December, 2011)

### Lectures, seminars and conferences

October 2011

'Cambridge Scientific Heritage', Heritage Research Group, University of Cambridge

Organised and hosted poetry reading with John James, Redell Olsen and Ian Patterson, Plurabelle Books, Cambridge, to launch *Cambridge Literary Review* #5.

'Introducing Ibn Tufayl's 12<sup>th</sup> century *Hayy ibn Yaqzan*', Science and Literature reading group, University of Cambridge.

May 2012

Organised, introduced and chaired a workshop on scientific heritage in Cambridge science departments at the Twentieth Century Think Tank, History and Philosophy of Science, Cambridge.

June 2012

'Dispersed collections: collaborating with scientists and technicians', XIII Universeum Network Meeting, Trondheim, Norway.

Co-introduced and co-chaired the first workshop of an international working group for the preservation of recent scientific heritage, XIII Universeum Network Meeting, Trondheim, Norway.

September 2012

'Ideological Uses of History', Mellon Seminar for the Study of Religion, City University New York.

# Caitlin Donahue Wylie

During the third year of my PhD, I supervised HPS 1B, a year-long course for second-year undergraduates, and the Politics of Science course on Part II Paper 7, an eight-week course for third-years. With Rohan Deb Roy I re-designed the HPS History Workshop as a forum to discuss precirculated works-in-progress by HPS postdocs and graduate students.

## Publications

### Articles in journals

(With M Varelas and J Kane) 'Young black children and science: chronotopes of narratives around their science journals', *Journal of Research in Science Teaching* 49 (2012), 568-596

'Teaching nature study on the blackboard in late nineteenth- and early twentieth-century England' *Archives of Natural History* 39 (2012), 59-76

'Teaching manuals and the blackboard: Accessing historical classroom practices', *History of Education* 41 (2012), 257-272.

### Reviews

Review of S G Kohlstedt, *Teaching Children Science*, in *Public Understanding of Science* 21 (2012), 254-255

## Lectures, seminars and conferences

### January 2012

'Creativity and the construction of fossils: "The artist's piece is already in the stone"', Cabinet of Natural History, HPS, University of Cambridge

### April 2012

'Techniques, philosophies, and controversies: "Paleontology depends on adhesives"', History Workshop, HPS, University of Cambridge

### June 2012

'How "invisible technicians" define skill', History of Skill in Medicine and Science Workshop, McGill University

### July 2012

'Making – and breaking – scientific specimens in 21<sup>st</sup>-century paleontology laboratories', HSS/BSHS/CSHPS Three Society Meeting, Philadelphia

# John Young

As a Research Associate for the Casebooks Project, my remit is to transcribe the material in Simon Forman's and Richard Napier's casebooks and encode detailed metadata for each entry. This year has been devoted to finalising and releasing our now-complete edition of Forman's over 10,000 surviving entries, to beginning work on Napier's casebooks, and to developing a search function for the edition. Robert Ralley and I between us have now processed well over 5,000 of Napier's cases though none of this material has yet been released. I have also, in collaboration with Ralley, Lauren Kassell and Michael Hawkins, contributed to the Casebooks website's content and to the development and testing of its search function. I have not spoken at any lectures or conferences this year or had any books or articles published, but the fruits of my labours can be viewed at: <http://www.magicandmedicine.hps.cam.ac.uk/>.

# Seminar Programmes

## Michaelmas 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 Karin Ekholm.

- 6 & 13 October *Research Topics and Resources Seminars: see page 5*  
20 October **Robin Findlay Hendry (Durham University)**  
No really, it is: 'water' and 'H<sub>2</sub>O'
- 27 October **Xavier Roqué (Universitat Autònoma de Barcelona)**  
The rise of modern physics in Spain: knowledge, power and memory
- 3 November **Bence Nanay (University of Antwerp and Peterhouse, Cambridge)**  
Singularist semirealism
- 10 November **Cesare S. Maffioli (International Academy of the History of Science)**  
The mathematicians' philosophy: early Italian perspectives on the intellectual appropriation of the mechanical arts
- 17 November **Abigail Woods (Imperial College London)**  
Rethinking health, disease and modernity: a view from the farm, c.1930–70
- 24 November **Josipa Petrunic (University of Toronto)**  
Cambridge mathematics in the north: Peter Guthrie Tait, Philip Kelland and the local nature of mathematics in Edinburgh, 1858–65

The Seventh Cambridge Wellcome Lecture in the History of Medicine will be held next term, on Thursday 19 January 2012. **Staffan Müller-Wille (University of Exeter)** will speak on 'Revisiting the Mendelian revolution'.

### Abstracts

20 October **Robin Findlay Hendry (Durham University)**

No really, it is: 'water' and 'H<sub>2</sub>O'

'Water' is common to both scientific and vernacular language, and so is a good example with which to explore the disputed relationship between them. Does vernacular usage defer to science, so that water must be H<sub>2</sub>O? If so, then for centuries the folk might apply the term to something that science may discover not to be water. Or may vernacular usage properly resist scientific reform, because it embodies a quite distinct body of knowledge and classificatory interests? In that case things that are not H<sub>2</sub>O may rightly continue to be called 'water'. Call these options deference and difference: I argue that difference presupposes the basic adequacy and coherence of the vernacular usage. In the case of 'water' that adequacy and coherence is missing unless the term tracks H<sub>2</sub>O content.

27 October **Xavier Roqué (Universitat Autònoma de Barcelona)**

The rise of modern physics in Spain: knowledge, power and memory

In the decades following the Spanish Civil War (1936–1939), General Franco's regime enlisted modern physics in the construction of an autarkic, totalitarian new state. The regime launched costly research and development programmes in nuclear physics, aeronautics and material sciences, and moulded a scientific community depleted by the war. It has proved difficult to make sense of these developments, especially since our understanding of the power relations of science in the dictatorship is shaped by the way its legacy has been handled. Francoism remains such an urgently conflicted issue, that these relations have been dismissed or minimized. Physicists and historians have emphasized that Francoist policy was indifferent if not hostile to modern science, and that the regime's official ideology, National Catholicism, did not reach beyond the rhetorical surface. I will challenge

these views by discussing one important if neglected aspect of the coproduction of science and the regime. Beginning in the 1930s, prominent right-wing ideologues sought to replace the progressive liberal reading of physics that had prevailed in the country through the first decades of the century, for a reactionary modernist reading that stressed the spiritual dimension of the discipline. They explicitly echoed German debates on technology and culture, yet were careful to avoid any materialistic or atheistic implication and argued rather for the integration of science in the Christian scheme of the world. Physics was thus aligned with the political and religious discourse that became hegemonic after the war. I will reflect on the implications of this story for our understanding of science in totalitarian regimes, and account for its invisibility.

3 November **Bence Nanay (University of Antwerp and Peterhouse, Cambridge)**  
Singularist semirealism

The aim of this talk is to carve out a new position in the scientific realism/antirealism debate and argue that it captures some of the most important realist and some of the most important antirealist considerations. The view, briefly stated, is that there is always a fact of the matter about whether the singular statements science gives us are literally true, but there is no fact of the matter about whether the non-singular statements science gives us are literally true. I call this view singularist semirealism. Singularist semirealism sides with scientific realism with regards to singular statements but it is an antirealist view with regards to non-singular statements. In this sense, singularist semirealism could be considered to be ‘the best of both worlds’.

10 November **Cesare S. Maffioli (International Academy of the History of Science)**  
The mathematicians’ philosophy: early Italian perspectives on the intellectual appropriation of the mechanical arts

In this talk I suggest that mathematicians’ early interest in philosophy was partly due to the need to understand the inventions of the mechanical arts. This theme is developed by discussing two rather different cases. Attention is first focused on the Renaissance physician and mathematician Girolamo Cardano, who in his works gave philosophical dignity to the mechanical arts, explained the working principles of their findings and developed new fields, such as the mathematical study of the motion of water. The second case concerns the theories of matter of Galileo Galilei and Domenico Guglielmini. Some scarcely considered aspects of these theories, such as Galileo’s quantification of the forces of cohesion of solids and liquids through the measurement of the force of void and Guglielmini’s mechanistic views on the process of aggregation of salt particles in aqueous solutions, indicate that engineering experimentation in the field contributed in a determining way to the development of the new sciences and that mathematics’ share in the corpuscular philosophy was greater than is usually thought.

17 November **Abigail Woods (Imperial College London)**  
Rethinking health, disease and modernity: a view from the farm, c.1930–70

Focusing on veterinary understandings of livestock health and disease, this paper calls for a rethinking of the history of infectious disease concepts. Most existing literature on this topic highlights the reductionism of post-germ theory concepts when compared to earlier, more ecological understandings of disease. While interest in social and environmental determinants of disease did not disappear entirely, until the 1980s it was largely confined to individuals critical of industrial modernity and its environmental impacts. Then, new and emerging diseases such as AIDS, antimicrobial resistance, environmentalism, and the backlash against intensive farming brought ecological conceptions back into mainstream medical thought.

My paper will challenge this narrative by revealing that ecological conceptions of livestock disease were actually constitutive with agricultural modernity. The mid-century shift to more intensive husbandry systems and the privileging of livestock productivity led to the emergence of new diseases, along with new ways of thinking about and managing them. Formerly viewed as a consequence of germs invading susceptible bodies, livestock disease became an ecological product of bodies interacting with their environments, a condition influenced as much by feeding, breeding, housing and stockmanship as by pathogens. At the same time, health ceased to equate to an absence of disease symptoms, and became one of several factors contributing to optimal growth and productivity. In this way, it became possible to pursue health and productivity without attending directly to pathogens or disease. The paper concludes by examining the implications of these shifts for the traditional experts in livestock disease, veterinary surgeons.

24 November **Josipa Petronic (University of Toronto)**

Cambridge mathematics in the north: Peter Guthrie Tait, Philip Kelland and the local nature of mathematics in Edinburgh, 1858–65

This article relates to mathematics in Edinburgh leading up to and just following the Universities Act (Scotland) in 1858. Philip Kelland, Professor of Mathematics from 1838, and Peter Guthrie Tait, Professor of Natural Philosophy from 1860, were both Cambridge-trained Senior Wranglers. Yet, neither actor advocated a wholesale implementation of Cambridge-style Tripos examination in Edinburgh, despite the fact that the Universities Act provided them with the cultural space and impetus to do so. Tait and Kelland also collaborated on the development of the highly analytical mathematics of quaternions, though neither actor sought to impose this form of geometrical analysis on his students. Thus, despite their collective potential to serve as conduits through which Cambridge mathematics, or at least an analysis-heavy curriculum, could have been more explicitly imposed in the north, neither Kelland nor Tait enforced such a transformation. Rather, their contributions to the development of mathematical curricula in Edinburgh were shaped more by the university's institutional and cultural geography (where natural philosophy was privileged over and above symbolical mathematics) than by their own rigid training in Cambridge-style mathematics. In sum, this article explores the Scottish case study of Kelland and Tait to argue that mathematical knowledge is not simply transferable, but is heavily dependent upon local conditions.

## Cabinet of Natural History

This research seminar is concerned with all aspects of the history of natural history and the field and environmental sciences. Seminars are held on **Mondays at 1pm in Seminar Room 1**. You are welcome to bring your lunch with you.

Organised by Sophie Waring.

10 October **Philippa Hardman (Darwin Correspondence Project, Cambridge)**

'Your observations and experiments are by far the best which have ever been made': the hidden world of women and science in Charles Darwin's private correspondence

17 October **A. Kathryn Schoefert (HPS, Cambridge)**

Placing a laboratory: botanical buildings in Cambridge around 1900

24 October Fungus Hunt

31 October **Jenny Rampling (HPS, Cambridge)**

*Halloween special*: Trick or treatise? Alchemy as natural magic

7 November **Philip Howell (Geography, Cambridge)**

Domesticating the Victorian dog: a public life for a private animal

14 November **Katey Anderson (York University, Toronto)**

Descriptions and disciplines in the ocean: defining the perspective of oceanography in the 1920s

21 November **Tim Boon (Science Museum)**

Percy Smith: the self-creation of an amateur scientist and filmmaker

28 November **Christine Aicardi (Wellcome Library and UCL)**

Continuities in Francis Crick's scientific life and the ethos of post-World War II Cambridge biophysics

## 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 introducing some basic topics and methodologies. The seminars are complemented by an online guide at [www.hps.cam.ac.uk/research](http://www.hps.cam.ac.uk/research).

Organised by Simon Schaffer and Anna Alexandrova.

6 October **Matthew Lane**: Research skills training offered by the School of Humanities and Social Sciences

- Jenny Bangham:** Researching the history of 20th-century biology  
**Katharina Kraus:** Philosophy of science  
**Josh Nall:** Researching in the Whipple Museum  
 13 October **Nick Jardine:** Introduction to research resources in HPS  
**Patricia Fara:** Scientific images  
**Rohan Deb Roy:** Empire and insects  
**Caitlin Wylie:** Interviewing scientists for sociological research

## History of Medicine Seminars

Seminars are on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**. Tea and biscuits are available from 4.40pm. All welcome!

Organised by Elaine Leong, Nick Hopwood and Karin Ekholm.

- 11 October **Jane Munro (Fitzwilliam Museum)**  
 Silent partners: artists and the mannequin from function to fetish  
 1 November **Hannah Newton (HPS, Cambridge)**  
 ‘Nott a sadder creature in the world’: parental grief in early modern England, 1580–1720  
 8 November **Alex Mold (London School of Hygiene & Tropical Medicine)**  
 Speaking for the patient as consumer in late 20th-century Britain  
 22 November **Ronit Yoeli-Tlalim (Goldsmiths, University of London)**  
 Medicine in and around Dunhuang: preliminary assessment of ancient transmissions of medical knowledge along the Silk Road

## 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](http://www.reproduction.group.cam.ac.uk)). Tea and biscuits are available from 4.40pm. All welcome!

Organised by Nick Hopwood.

- 18 October **Martina Schlünder (Justus-Liebig-Universität Giessen)**  
 Temporal economies in fertility research in Germany, 1900–45  
 15 November **Susanne Lettow (Freie Universität Berlin)**  
 Rethinking generation in the late 18th century: the concept of ‘reproduction’

### 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](http://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 25 October and 29 November in Seminar Room 1**. To join the group, please email [generate@hermes.cam.ac.uk](mailto:generate@hermes.cam.ac.uk).

## Twentieth Century Think Tank

The Twentieth Century Think Tank (TCTT) is a discussion group organised by graduate students and postdoctoral fellows. It offers broad coverage of 20th- and 21st-century topics in the history, philosophy and sociology of science, technology and medicine.

Copies of readings may be found in the TCTT box in the Whipple Library. Meetings are held **every other Tuesday during term at 1pm in Seminar Room 1**. All welcome, and feel free to bring lunch! There will also be occasional film and documentary showings.

For more information, please visit our website <https://sites.google.com/site/hpsthinktank>. To join the mailing list, email [hps-think-tank@lists.cam.ac.uk](mailto:hps-think-tank@lists.cam.ac.uk).

Organised by Leon Rocha and Kathryn Schoefert.



- 18 October **Christos Lynteris (CRASSH, Cambridge)**  
The event in the syndemic: state and subject formation in the two Manchurian pneumonic plague outbreaks (1910–11, 1920–21)
- 1 November **Michal Murawski (Social Anthropology, Cambridge)**  
The palace of cats and falcons: 21st-century fauna in a 20th-century skyscraper
- 15 November **Fran Bigman (English, Cambridge)**  
A mould discarded: abortion and class in 1930s rhetoric and fiction
- 29 November **Atsuko Naono (School of Oriental and African Studies)**  
Good practices in rural landscapes: J. Entrican and the rediscovery of indigenous medicine in colonial Burma

## Things: Material Cultures of the Long Eighteenth Century

The seminar meets **alternate Tuesdays, 12–2pm in the CRASSH Seminar Room on Mill Lane**. A light lunch will be provided.

This series will use an approach based on objects to encourage us to consider the unity of ideas of the long 18th century, to emphasise the lived human experience of technology and art, and the global dimension of material culture. Each seminar will feature two talks each considering the same type of object from different perspectives.

Organised by Katy Barrett, Sophie Waring and others.

Further information at [www.crassh.cam.ac.uk/page/1036/thingsmaterial-cultures-18thc.htm](http://www.crassh.cam.ac.uk/page/1036/thingsmaterial-cultures-18thc.htm)

- 11 October **Simon Schaffer (HPS, Cambridge) and Nick Thomas (Museum of Archaeology and Anthropology, Cambridge)**  
Artefacts
- 25 October **Kim Sloan (British Museum) and Charlie Jarvis (Natural History Museum)**  
Botany
- 8 November **Richard Dunn (National Maritime Museum) and Alexi Baker (HPS, Cambridge)**  
Scientific instruments
- 22 November **Catherine Eagleton (British Museum) and Martin Allen (Fitzwilliam Museum)**  
Coins

## HPS History Workshop

Are you wishing for advice on how to write the tricky bit of your argument? Not sure how to write a good introduction? Trying to convert an essay or a chapter into an article? Sign up to share a draft of your next PhD chapter, book chapter, conference paper, journal article or MPhil essay with an audience of friendly HPS postgraduates and postdocs!

The History Workshop is an informal setting to discuss your written works-in-progress on any area of the history of science, medicine and technology, and get feedback from your early-career colleagues. Your paper will be circulated by email before the workshop. We'll then discuss it together over tea and biscuits at **5pm on alternate Wednesdays in Seminar Room 1**.

Sign up now to share your work with this new format of the History Workshop! Please contact Rohan Deb Roy or Caitlin Wylie.

- 12 October **Jenny Bangham:** Human genetics and the blood transfusion services: circulating records, samples and expertise, 1939–1945
- 26 October **Michael Bycroft:** The many roles of material variation in Charles Dufay's mémoires on electricity and phosphorescence
- 9 November **Salim Al-Gailani:** Private science and public morals: the diary of a late-Victorian teratologist
- 23 November **Josh Nall:** Proctor's Mars: new astronomy and new journalism in Britain in the 1870s and 1880s

# HPS 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**. If you would like to present, or have any questions, please contact Emily McTernan.

- 19 October **Anna Alexandrova:** Buyer beware: robustness analyses in theoretical economics
- 2 November **Mark Colyvan:** The ins and outs of mathematical explanation
- 16 November **Emily Thomas:** The equivocation objection to priority monism
- 30 November **Huw Price:** Retrocausality – what would it take?

## Graduate Training

Training workshops for the Department's graduate students and postdoctoral researchers are held throughout the academic year. Most, but not all, are on **Fridays at 1pm in Seminar Room 1**. The full programme is available at [www.hps.cam.ac.uk/students/training](http://www.hps.cam.ac.uk/students/training).

# Philosophy of Science Reading Group

We will be reading selected chapters from *Naturalism without Mirrors* by Huw Price (OUP, 2011). 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.

- 6 October Chapter 1, 'Moving the Mirror Aside'
- 13 October Chapter 2, 'Metaphysical Pluralism'
- 20 October Chapter 8, 'Truth as Convenient Friction'
- 27 October Chapter 9, 'Naturalism without Representationalism'
- 3 November Chapter 11, 'Pragmatism, Quasi-Realism and the Global Challenge'
- 10 November Chapter 12, 'The Semantic Foundations of Metaphysics'
- 17 November Chapter 13, 'Metaphysics After Carnap: the Ghost Who Walks?'
- 24 November Chapter 14, 'One Cheer for Representationalism?'

# Philosophy of Biology Reading Group

We will be reading *Not by Genes Alone: How Culture Transformed Human Evolution* by Peter J. Richerson and Robert Boyd (University of Chicago Press, 2005).

Meetings will take place on **Fridays at 2pm in the HPS Lodge Seminar Room** and are open to all. Organised by Jonathan Birch.

- 7 October Chapter 1, 'Culture is Essential'
- 14 October Chapter 2, 'Culture Exists'
- 21 October Chapter 3, 'Culture Evolves'
- 28 October Chapter 4, 'Culture Is an Adaptation'
- 4 November Chapter 5, 'Culture Is Maladaptive'
- 11 November Chapter 6, 'Culture and Genes Coevolve'
- 18 November Chapter 7, 'Nothing About Culture Makes Sense Except in the Light of Evolution'
- 25 November Commentaries by Simpson and Beckes, Mameli, Sperber and Cladière, and Shennan (*Biology and Philosophy*, March 2008)

## Science and Literature Reading Group

### *The Growth of the Mind*

We meet fortnightly on **Mondays from 7.30 to 9pm in the Godwin Room at Clare College (Old Court)**.

Some readings are available online: follow the links at [www.hps.cam.ac.uk/seminars](http://www.hps.cam.ac.uk/seminars).

Organised by Daniel Friesner (Science Museum), Esther Momcilovic (HPS) and Liz Smith (Darwin

Correspondence Project). All welcome!

- 17 October Ibn Tufayl, *Hayy Ibn Yaqzan* (12th century). There is an excellent modern translation by Lenn E. Goodman (paperback, Chicago University Press, 2009). You can also use Simon Ockley's 1708 translation.
- 31 October W. Chesselden, 'An Account of Some Observations Made by a Young Gentleman, Who Was Born Blind, or Lost His Sight so Early, That He Had no Remembrance of Ever Having Seen, and Was Couch'd between 13 and 14 Years of Age', *Philosophical Transactions*, Vol. 35, 1727–1728, pp. 447–450.  
Buffon, 'Des sens en général' from his *Histoire naturelle*, Tome 3 (1749). William Smellie's 1781 translation.
- 14 November Charles Darwin, 'A biographical sketch of an infant', *Mind*, Vol. 2, No. 7, Jul. 1877, pp. 285–294.  
Frances Hodgson Burnett, *The One I Knew the Best of All: A Memory of the Mind of a Child* (1893), Chapter 1 (pp. 1–21).
- 28 November Melanie Klein, 'Infantile Anxiety-Situations Reflected in a Work of Art and in the Creative Impulse' (1929), *International Journal of Psycho-Analysis*, Vol. 10, pp. 436–443. Reprinted in *Love, Guilt and Reparation* (1975).  
Jean Piaget, *La représentation du monde chez l'enfant* (1926), translated by Joan and Andrew Tomlinson as *The Child's Conception of the World* (1929), Chapter VII (pp. 207–251).

## Astronomical Images Group

These meetings are part of the AHRC project 'Diagrams, Figures and the Transformation of Astronomy, 1450–1650', which analyses the production, function and terminology of early modern astronomical imagery.

Meetings will be held on **Thursdays at 1–2pm in Seminar Room 1**. All are welcome – do please feel free to bring lunch! Email Isla Fay to be added to the mailing list.

- 10 November **Jeanne Peiffer (Centre National de la Recherche Scientifique)**  
Diagrams stemming from the Nuremberg environment of Albrecht Dürer
- 24 November **Irina Schmiedel (Bergische Universität Wuppertal)**  
Botanical knowledge between science and representation

## Twentieth-Century Biology Reading Group

The group will discuss papers relating to the history, philosophy and historiography of 20th-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.

- 11 October Biological samples, session 1: Anthropological encounters  
Warwick Anderson, *The Collectors of Lost Souls: Turning Kuru Scientists into Whitemen* (Baltimore: The Johns Hopkins University Press, 2008).  
Introduction (pp. 1–8)  
Chapter 4, 'The Scientist and His Magic' (pp. 91–115)  
Chapter 6, 'Specimen Days' (pp. 133–160)
- 25 October Biological samples, session 2: Human tissues in vitro

- Duncan Wilson, *Tissue Culture in Science and Society: The Public Life of a Biological Technique in Twentieth Century Britain* (Basingstoke: Palgrave Macmillan, 2011).  
 Chapter 4, 'Converting Human Material into Tissue Culture, c.1910–70' (pp. 54–69)  
 Chapter 5, "'A Cell is Not an Animal": Negotiating Species Boundaries in the 1960s and 1970s' (pp. 70–91)
- 8 November Images, session 1: Manipulated embryos  
 Clare Williams, Jenny Kitzinger & Lesley Henderson, 'Envisaging the Embryo in Stem Cell Research: Rhetorical Strategies and Media Reporting of the Ethical Debates', *Sociology of Health & Illness* 25 (2003): 793–814.  
 Lorenzo Beltrame & Silvia Giovanetti, 'When the Oocyte Becomes an Embryo: The Social Life of an Ambiguous Scientific Image in Italian Newspapers (1996–2007)', *Nuncius* 24 (2009): 489–507.
- 22 November Images, session 2: The public life of proteins  
 Peter Keating & Alberto Cambrosio, 'Arguing with Images: Pauling's Theory of Antibody Formation'. In *Visual Cultures of Science: Rethinking Representational Practices in Knowledge Building and Science Communication*, edited by Luc Pauwels (Hanover, New Hampshire & London: Dartmouth College Press, 2006).  
 Black, Suzanne, 'Domesticating the Crystal: Sir Lawrence Bragg and the Aesthetics of "X-ray Analysis"', *Configurations* 13 (2005): 257–282.

## Philosophy and History of Physics Reading Group

### *The Rise of Field Physics*

This reading group meets on **Tuesdays, 2.30–3.30pm in Seminar Room 1**. Organised by Hasok Chang, Simon Schaffer, Nazim Bouatta and Jeremy Butterfield.

- 11 October **Hasok Chang** introduces:  
 M. Hesse, *Forces and Fields* (London: Thomas Nelson and Sons, 1961), chap 8, 'The Field Theories', 189–225.
- 18 October **Jeremy Butterfield** introduces:  
 M. Lange, *Introduction to Philosophy of Physics*, 2002, Chapters 3 and 4.
- 25 October **Nazim Bouatta** introduces:  
 Poincaré, *Science and Hypothesis*: Chapter X: The theories of modern physics, 160–182; Chapter XII: Electricity and Optics, 211–224; Chapter XIII: Electrodynamics, 225–244.
- 1 November **Simon Schaffer** introduces:  
 James Clerk Maxwell, 'Ether', from *Encyclopedia Britannica*, reprinted in W.D. Niven, *Scientific papers of James Clerk Maxwell*, 1890, volume 2, 763–75 (copy will be available).  
 Daniel Siegel, 'Thomson, Maxwell and the universal ether in Victorian physics', in G.N. Canto and M.J.S. Hodge (eds.), *Conceptions of ether* (1981), 239–68 (Whipple Library S3 CAN).  
 P.M. Harman, *The natural philosophy of James Clerk Maxwell* (1998), section VIII.1, 162–75 (Whipple Library S7 MAX HAR).
- 8 November TBA
- 15 November TBA
- 22 November **Chitra Ramalingam** introduces:  
 David Gooding, "'Magnetic Curves" and the magnetic field: experiment and representation in the history of a theory', in *The Uses of Experiment: Studies in the Natural Sciences*, ed. David Gooding, Simon Schaffer and Trevor Pinch (Cambridge University Press, 1989), 182–223.  
 David Gooding, 'Final steps to the field theory: Faraday's study of magnetic phenomena, 1845–1850', *Historical Studies in the Physical Sciences* 11 (1981): 231–275.
- 29 November TBA

# History and Theory Reading Group

## *Classics in Integrated HPS*

In this series of four meetings we explore integrated HPS through classic works in the genre. Integrated HPS includes history of science informed by philosophy of science, philosophy of science informed by history of science, and works that combine these two approaches. We read extracts from four ‘classics’ alongside biographical information about the authors and commentaries by more recent historians and philosophers of science. We ask what kind of integrated HPS the authors practised, why they practised it, and how their work compares to, and contributed to, later work in HPS.

We meet on **alternate Fridays, 2.30pm to 4pm in Seminar Room 1**. Articles will be placed in advance in a History and Theory box in the Whipple. Further details of the readings, including suggested additional readings, will be listed at [www.hps.cam.ac.uk/seminars/theory.html](http://www.hps.cam.ac.uk/seminars/theory.html). Organised by Minwoo Seo, Michael Bycroft and Hasok Chang.

- 14 October Johannes Kepler, ‘A Defence of Tycho Against Ursus’, and the birth of history and philosophy of science  
Selections from Nicholas Jardine, *The Birth of History and Philosophy of Science: Kepler’s ‘A Defence of Tycho Against Ursus’, With Essays on its Provenance and Significance* (Cambridge: Cambridge University Press, 1984).  
Nicholas Jardine, ‘The Places of Astronomy in Early-Modern Culture’, *Journal for the History of Astronomy* 29 (1998): 49.  
Nicholas Jardine, ‘History of Science Comes of Age’, forthcoming.
- 28 October Edwin Arthur Burt, ‘The Metaphysical Foundations of Modern Physical Science’, and the Scientific Revolution  
Selections from Edwin Arthur Burt, *The Metaphysical Foundations of Modern Physical Science: A Historical and Critical Essay* (London: Routledge and Kegan Paul, 1932).  
Lorraine Daston, ‘History of Science in an Elegiac Mode: E.A. Burt’s “Metaphysical Foundations of Modern Physical Science” Revisited’, *Isis* 82, no. 3 (1991): 522–531.  
Gary Hatfield, ‘Metaphysics and the New Science’, in *Reappraisals of the Scientific Revolution*, edited by David C. Lindberg and Robert S. Westman (Cambridge: Cambridge University Press, 1990), 93–166.
- 11 November Gaston Bachelard, ‘The Formation of the Scientific Mind’, and epistemological breaks  
Selections from Gaston Bachelard, *The Formation of the Scientific Mind: A Contribution to a Psychoanalysis of Objective Knowledge*, translated by Mary McAllester Jones (Manchester: Clinamen, 2002).  
Christina Chimisso, ‘From Phenomenology to Phenomenotechnique: The Role of Early Twentieth-Century Physics in Gaston Bachelard’s Philosophy’, *Studies in History and Philosophy of Science Part A* 39, no. 3 (September 2008): 384–392.  
Stephen Gaukroger, ‘Bachelard and the Problem of Epistemological Analysis’, *Studies in History and Philosophy of Science Part A* 7 (1976): 189–244.
- 25 November Norwood Russell Hanson, ‘Patterns of Discovery’, and the theory-ladenness of observation  
Selections from Norwood Russell Hanson, *Patterns of Discovery: An Inquiry into the Conceptual Foundations of Science* (CUP Archive, 1958).  
Norwood Russell Hanson, ‘The Irrelevance of History of Science to Philosophy of Science’, *The Journal of Philosophy* 59, no. 21 (1962): 574–586.  
Michael Heidelberger, ‘Theory-Ladenness and Scientific Instruments in Experimentation’, in *The Philosophy of Scientific Experimentation*, edited by Hans Radder (Pittsburgh: University of Pittsburgh Press, 2003), 138–151.

## Kant Reading Group

In Michaelmas Term, we will read the Analytic of Principles of the *Critique of Pure Reason* (1781/7).

In the Analytic of Principles, Kant develops his theory of schematism which has notoriously given rise to much controversy. This theory, he claims, solves the problem of the application of the categories, the pure concepts of the understanding, to our spatiotemporal intuitions. In the subsequent chapters of the Analytic of Principles, he shows in particular how the categories can be applied to various determinations of time. From these

applications, the principles of our thinking can be derived, such as the axioms of intuition, the anticipations of perceptions, the analogies of experience and the postulates of pure thinking in general. Thus, the idea of schematism, which was once depreciated as an obscure element of Kant's theory, could be shown by several commentators to be the completing part of the Transcendental Deduction of the categories.

Meetings are held in the **HPS Lodge, 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.

- 11 October A130/B199 – A139/B178  
Introduction + On the schematism of the pure concepts of the understanding – Part I
- 18 October A140/B179 – A147/B187  
On the schematism of the pure concepts of the understanding – Part II
- 25 October A148/B187 – A158/B197  
The System of Principles of Pure Understanding – First & Second Section  
On the supreme principle of all analytic/synthetic judgments
- 1 November A158/B197 – A166/B207  
Systematic representation of all synthetic principles of pure understanding  
Axioms of Intuition
- 8 November A166/B207 – A176/B218  
Anticipations of Perception
- 15 November A176/B218 – A189/B232  
First Analogy of Experience
- 22 November A189/B232 – A211/B256  
Second Analogy of Experience
- 29 November A211/B256 – A218/B265  
Third Analogy of Experience  
A218/B265 – A226/B274  
The postulates of empirical thinking in general

## 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 '**Elements of Controversy**'.

The group meets four times per term, on **Mondays, 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](http://www.hps.cam.ac.uk/adhoc).

Organised by Hasok Chang and Jenny Rampling.

- 17 October 'Gold and lead' – introduced by **Stephanie Seavers (University College London)** and **Jennifer Rampling (HPS, Cambridge)**  
Excerpts from Spike Bucklow, *The Alchemy of Paint: Art, Science and Secrets from the Middle Ages* (London and New York)
- 31 October 'Chlorine' – introduced by **Ruth Ashbee (University College London)**  
R. Ashbee, 'The Discovery of Chlorine', Ch. 1 of H. Chang & C. Jackson (eds.), *An Element of Controversy: The Life of Chlorine in Science, Medicine, Technology and War* (BSHS Monographs), pp. 15–40.
- 14 November 'Mercury' – introduced by **Andrew Cunningham (HPS, Cambridge)**  
Reading to be confirmed.
- Thursday 1 December (7pm): 'Is water H<sub>2</sub>O?' – lecture by **Hasok Chang (HPS, Cambridge)** at the Department of Chemistry, organised by the Cambridge University Chemical Society

## Latin Therapy

Latin Therapy will meet on **Fridays in the HPS Lodge from 4–5.30pm**. The first meeting this term will take place on 14 October and the last on 25 November. 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](http://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 a slightly more advanced text (TBA, but often Plato). For information or to be added to the mailing list, please email Liz Smith.

# Lent Term 2012

## 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 Karin Ekholm.

- 19 January **Staffan Müller-Wille (University of Exeter)**  
*Seventh Cambridge Wellcome Lecture in the History of Medicine*  
Revisiting the Mendelian revolution
- 26 January **Huw Price (Faculty of Philosophy, Cambridge)**  
Time's arrow and Eddington's challenge
- 2 February **Michela Massimi (University College London)**  
Scientific perspectivism and its foes
- 9 February **Irma Taavitsainen (University of Helsinki)**  
Medical discourse and scientific thought-styles: what changes and what remains constant
- 16 February **Andreas Mayer (Max Planck Institute for the History of Science)**  
Impossible objects? Towards a history of modern sleep and dream research
- 23 February **Ellen Clarke (All Souls College, Oxford)**  
How to count organisms
- 1 March **Mauricio Suárez (Universidad Complutense de Madrid and LSE)**  
Metaphors, similarities and inferences
- 8 March **Marta Hanson (Johns Hopkins University)**  
Visualizing the geography of diseases in China, 1870s–1920s

## Abstracts

- 19 January **Staffan Müller-Wille (University of Exeter)**  
*Seventh Cambridge Wellcome Lecture in the History of Medicine*  
Revisiting the Mendelian revolution

Much research into heredity in the late 19th and early 20th centuries took place in such applied contexts as seed production, breeding yeast and cereals for large-scale beer making, mass-manufacture of vaccines, efforts to further public health, administration of psychiatric hospitals and eugenic programmes. In these areas increasing division of labour and more bureaucratic control promoted a culture of expertise and scientificity. We need to understand this if we want to explain the effect on the life sciences of the so-called rediscovery of Mendel's laws in 1900. Mendelism was not taken up as a theory, but as a set of important methods for realizing scientific values such as analyticity, exactitude, calculability and predictability. Breeders and eugenicists, in particular, shared a combinatorial approach that promised the transparent and reliable production of effects from one generation to the next. Synthetic chemistry, not physics, provided the model science. Framed in this way, the origin of genetics appears as much less of a revolutionary break. The concepts and procedures of early Mendelians fitted rather well into a world that had already been thoroughly shaped by medical and agro-industrial concerns with the production of stable varieties.

- 26 January **Huw Price (Faculty of Philosophy, Cambridge)**  
Time's arrow and Eddington's challenge

When Sir Arthur Eddington died in 1944, *Time* magazine noted that 'one of mankind's most reassuring cosmic thinkers' had passed away: 'Sir Arthur,' *Time* said, had 'discoursed on his cosmic subject with a wit and clarity rare among scientists.'

One of Eddington's favourite cosmic subjects was 'time's arrow', a term he himself introduced to the literature in his 1928 book, *The Nature of the Physical World* (though without his celebrated clarity about what it actually means, as Grunbaum was later to note). What is clear is that Eddington thought that there is something essential about time that physics is liable to neglect: the fact that it 'goes on', as he often puts it.

Despite the best efforts of Grunbaum, Smart and many other philosophers to pour cold water on this idea, similar claims are still made today, in physics as well as in philosophy. All sides in these debates can profit, in



my view, by going back to Eddington. Eddington appreciates some of the pitfalls of these claims with greater clarity than most of their contemporary proponents; and also issues a challenge to rival views that deserves to be better known.

2 February **Michela Massimi (University College London)**

Scientific perspectivism and its foes

In this paper I discuss Ron Giere's scientific perspectivism (2006) and a recent challenge raised by Anjan Chakravartty (*SHPS* 41, 2010). Scientific perspectivism is meant to be a middle ground between what Giere calls 'objectivist realism' and 'relativism', but – as foes have noted – the position seems trapped between two strictures. It either (1) collapses into another variant of relativism, or (2) it is not worth pursuing since perspectival knowledge is ultimately reducible to non-perspectival knowledge of objects' dispositions. I tackle objection (2), and show that perspectivism is worth pursuing after all. Perspectival knowledge does not reduce to knowledge of non-perspectival, dispositional facts about the target system, if we interpret 'reduce' in the philosophically interesting, epistemic sense of how we come to know those facts. I draw on Ernest Sosa's perspectival coherentism to illustrate this point against dispositional realists.

9 February **Irma Taavitsainen (University of Helsinki)**

Medical discourse and scientific thought-styles: what changes and what remains constant

Corpus linguistic studies have shown that it is possible to trace the lines of changing thought-styles in different layers of writing in more detail than has been done before. For this purpose, we are compiling a large electronic database with background information of language-external facts. Two parts have already been published: *Middle English Medical Texts 1375–1500* (2005) and *Early Modern English Medical Texts 1500–1700* (2010). The third part, *Late Modern English Medical Texts 1700–1800*, is under way. We have already conducted some studies with focus on what changes and how and why changes take place. The results show that conventions are carried over from previous texts, and stylistic innovations take place within the existing frame of old traditions. The great majority of writings do not change much, or they change very slowly. The old scholastic way of writing with frequent references to authorities gains new stylistic functions, e.g. to lend an aura of learning to texts for more heterogeneous and popular audiences in the early modern period. In my talk I shall explain the theoretical and methodological background, describe the corpus, and finish with an empirical study of keyword analysis.

16 February **Andreas Mayer (Max Planck Institute for the History of Science)**

Impossible objects? Towards a history of modern sleep and dream research

In my talk, I will address rise of the scientific study of sleeping and dreaming in Europe and the US after 1850. Whereas dreams have always been a troubling phenomenon for Western rationality, attempts at the systematic observation and control of the dreaming process only emerged in the 19th century. Within a new scientific culture of objectivity, dreams posed a challenge: since they appear in the sleeper's mind as fleeting phenomena and can only be known after awakening, they could hardly be considered as observable objects; and more disturbingly, their irregular, immoral, and irrational aspects threatened the unity of the observer. This twofold uncertainty gave rise to a regime of observation in which dreams and similar mental phenomena were objectified, a process in which the use of new visual media was of key importance. By reconstructing the genealogies of the practices by which dreams were objectified, my aim is not only to bring to the fore the specificities of the cross-disciplinary field of sleep and dream research, but also to offer historical and epistemological elucidations of the current ambitions voiced by the exponents of new subdisciplines (most notably cognitive or neuroscientific approaches to psychoanalysis).

23 February **Ellen Clarke (All Souls College, Oxford)**

How to count organisms

Organisms are indispensable objects in our everyday ontology and in biology. We know that counting particular lumps of living matter, and not others, allows us to describe and make predictions about evolutionary processes. Yet we lack a theory telling us which lumps to count. In some cases the answer is obvious; we find it easy to count piglets without worrying that we have confused parts of the mother with her babies. Yet once we turn to organisms which reproduce by tearing themselves in half (starfish) or growing copies of themselves at the ends of their limbs (plants) our intuitions desert us. Darwin's *Origin of the Species* describes how the differential births and deaths of individuals produce evolutionary change. If we cannot decide how to count some creatures then we cannot apply our evolutionary theory to them. Do they fall outside of evolution then? Or is the intuitive organism really less obvious than we think? I present a novel definition of the organism which achieves a

reconciliation of conflicting accounts by identifying a common functional effect of the mechanisms identified in those different accounts.

1 March **Mauricio Suárez (Universidad Complutense de Madrid and LSE)**

Metaphors, similarities and inferences

I review and update Max Black's 'interactive' view of metaphor. On this view metaphor cannot be reduced to, or analyzed in terms of, similarity. A metaphor does not merely state a similarity; it rather brings into being a similarity that was not there before. The interactive view has cash value in literary theory, where it originates, but its application to science has often been questioned. I defend a version of the interactive view by providing an account of the role that metaphor plays in fostering inferences from representational sources to targets. The account draws on historical scholarship on 19th-century electrodynamics, and I point out some relevant links with Mary Hesse's celebrated work on models.

8 March **Marta Hanson (Johns Hopkins University)**

Visualizing the geography of diseases in China, 1870s–1920s

From the beginning, medical mapping was not just a way of thinking but also a way to visualize certain conceptions of knowledge. Physicians used them for various functions in China from the 1870s, when they first published them to work out causal relationships, to the 1910s and 20s, when they transformed them for new political purposes. They were also one of the most succinct ways to circulate complex syntheses of then current medical knowledge. The earliest disease maps were statements in an argument, evidence furthering a specific case, and visualizations of possible causal relationships. On the one hand, disease incidence, and on the other hand, potential causes – the climate or weather, water and air quality, geological features such as elevation, waterways and mountains, or an unknown poison in the environment. Over 50 maps of diseases in China were published from the 1870s to the 1920s. They were both analytical tools intended to visualize the relationship between space and disease and political images that legitimated colonial control (Russian in Harbin, English in Hong Kong), and later, provided evidence of Chinese state power over their populations. They also present a visual history of major changes in the conception of what was modern Western knowledge within China from the mid 19th-century peak of medical geography to the eventual victory of laboratory medicine by the early 20th century. The earliest disease maps, like 19th-century vital statistics and Petri-dishes, made causal relations newly visible. During the 1910–20s, however, new kinds of maps of diseases in China functioned more to legitimate colonial and later Chinese state-populace relationships than to elucidate causal disease-agent ones. Finally, the first disease maps in vernacular Chinese were of the distribution of bubonic plague, pneumonic plague, cholera, and apoplexy in China and the world. Published on public-health posters in the late 1920s, they attempted to convince a wary public of an entirely novel way of seeing epidemic disease, themselves, and their place in a newly globalizing world.

## 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 Sophie Waring.

23 January **Caitlin Wylie (HPS, Cambridge)**

Creativity and the construction of fossils: 'The artist's piece is already in the stone'

30 January **Dominic Berry (University of Leeds)**

Agricultural science and the Development Commission: the Olby account revisited

6 February **Miruna Achim (Universidad Autonoma Metropolitana, Mexico City)**

Skulls and idols: anthropometrics, antiquity collections, and the origin of American man

13 February **Karin Ekholm (HPS, Cambridge)**

Recalled into stalk and leaves: the many methods and meanings of early modern palingenesis

20 February **Dmitriy Myelnikov (HPS, Cambridge)**

Virgin birth crosses the Atlantic: Jacques Loeb's experiments on artificial parthenogenesis in the British press, 1900–06

- 27 February **Caroline Cornish (Royal Holloway)**  
Curating science in an age of empire: the Kew Museums of Economic Botany
- 5 March **William Burns (Imperial College London)**  
Apple cultures: pests, pumps and pipes in interwar British orchards
- 12 March **Jenny Uglov**  
Thomas Bewick, engraving the world

## History of Medicine Seminars

Seminars are on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**. Tea and biscuits are available from 4.40pm. All welcome!

Organised by Karin Ekholm, Vanessa Heggie and Elaine Leong.

- 24 January **Yolanda Eraso (University of Oxford)**  
Imagin(in)g the breast: mammography and breast cancer in the context of South-North American exchanges
- 14 February **Christelle Rabier (LSE)**  
Fitting for health: steel-trusses in the enlightened economy of healthcare
- 21 February **Matthew Smith (University of Strathclyde)**  
A pre-peanut history of food allergy
- 6 March **Jennifer Richards (Newcastle University)**  
Useful books: reading vernacular regimens in 16th-century England

## 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](http://www.reproduction.group.cam.ac.uk)). Tea and biscuits are available from 4.40pm. All welcome!

Organised by Nick Hopwood.

- 31 January **Kate Fisher (University of Exeter)**  
British 'sexology' and the uses of the past
- 28 February **Ed Ramsden (University of Exeter)**  
Health, height and intelligence in history: surveying the British population through the 20th century

## 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](http://www.reproduction.group.cam.ac.uk)). We also hold work-in-progress sessions.

This term's meeting will be at 5–7pm (tea from 4.50) on **Tuesday 7 February in Seminar Room 1**. (The session on 13 March is for the PIs only.) To join the group, please email [generate@hermes.cam.ac.uk](mailto:generate@hermes.cam.ac.uk).

## Twentieth Century Think Tank

The Twentieth Century Think Tank (TCTT) is a discussion group organised by graduate students and postdoctoral fellows at HPS. It offers broad coverage of 20th- and 21st-century topics in the history, philosophy and sociology of science, technology and medicine.

Meetings are held **every other Tuesday during term from 1pm–2pm in Seminar Room 1**. All welcome, and feel free to bring lunch! There will also be occasional film and documentary showings.

For more information, please visit our website <https://sites.google.com/site/hpsthinktank>. To join the mailing list, please contact the organisers, Leon Rocha and Kathryn Schoefert.

- 31 January **Alison McDougall-Weil (Engineering Design Centre, Cambridge)**  
The case of social interaction in bioscience laboratories: a multi-site ethnographic study of design intent and user experience
- 14 February **Leslie Topp (Birkbeck, University of London and CRASSH, Cambridge)**  
The challenge of the asylum mortuary in early 20th-century Central Europe
- 28 February **Julie Walsh (HPS, Cambridge)**  
The narcissist and the coquette: contesting figures of sexual sociability
- 13 March **Duncan Wilson (University of Manchester)**  
Principles, pluralism and ‘moral experts’: reassessing the history of bioethics

## Things: Material Cultures of the Long Eighteenth Century

The seminar meets **alternate Tuesdays 12.30–2.30pm in the CRASSH Seminar Room at 7 West Road on the Sidgwick Site**. A light lunch will be provided.

Each seminar features two talks considering the same type of object from different perspectives. Further information at [www.crassh.cam.ac.uk/page/1036/thingsmaterial-cultures-18thc.htm](http://www.crassh.cam.ac.uk/page/1036/thingsmaterial-cultures-18thc.htm)

- 24 January **John Styles (University of Hertfordshire)**  
**Amy Miller (National Maritime Museum)**  
Fashion
- 7 February **Philippa Hubbard (Adam Matthew Digital)**  
**Jenny Basford (University of York)**  
Advertising
- 21 February **Dame Rosalind Saville (Wallace Collection)**  
**Anne Gerritsen (University of Warwick)**  
Porcelain
- 6 March **Katie Scott (Courtauld Institute of Art)**  
**Hannah Williams (University of Oxford)**  
Artist’s things

## HPS History Workshop

Are you wishing for advice on how to write the tricky bit of your argument? Not sure how to write a good introduction? Trying to convert an essay or a chapter into an article? Sign up to share a draft of your next PhD chapter, book chapter, conference paper, journal article or MPhil essay with an audience of friendly HPS postgraduates and postdocs!

The History Workshop is an informal setting to discuss your written works-in-progress on any area of the history of science, medicine and technology, and get feedback from your early-career colleagues. Your paper will be circulated by email before the workshop. We’ll then discuss it together over tea and biscuits at **5pm on alternate Wednesdays in Seminar Room 1**.

Sign up now to share your work with this new format of the History Workshop! Please contact Rohan Deb Roy or Caitlin Wylie.

- 1 February **Jiri Hudecek:** How to assess influence: Wu Wen-Tsun’s work in measure, number and weight
- 15 February **Francis Neary:** Technological trajectories of hip replacement
- 29 February **Dmitriy Myelnikov:** ‘Mouse No. 48’ and ‘Mouse No. 73’: first gene transfer experiments, 1977–1980
- 14 March **Ruth Horry:** Egoists and intriguers? Disciplinary conflict in Assyriology at the University of Pennsylvania around 1900

# HPS 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** (starting 25 January) **from 1–2pm in Seminar Room 1**. If you would like to present, or have any questions, please contact Emily McTernan.

## Graduate Training

Training workshops for the Department's graduate students and postdoctoral researchers are held throughout the academic year. Most, but not all, are on **Fridays at 1pm in Seminar Room 1**. The full programme is available at [www.hps.cam.ac.uk/students/training](http://www.hps.cam.ac.uk/students/training).

## Philosophy of Science Reading Group

We will be reading selected chapters from two anthologies by John Dupré: *Humans and Other Animals* (OUP, 2002) and *Processes of Life* (OUP, 2012). Meetings will involve a short presentation by a member of the group followed by a general discussion.

Meetings will take place on **Thursdays at 2–3.30pm in Seminar Room 1** and are open to all. Organised by Hasok Chang and Jonathan Birch.

- 19 January 'The Constituents of Life 1: Species, Microbes and Genes' (*Processes* Ch. 4)
- 26 January 'The Constituents of Life 2: Organisms and Systems' (*Processes* Ch. 5)
- 2 February 'Varieties of Living Things: Life at the Intersection of Lineage and Metabolism' (*Processes* Ch. 12)
- 9 February 'Causality and Human Nature in the Social Sciences' (*Processes* Ch. 16)
- 16 February 'Human Kinds' (*Humans* Ch. 6)
- 23 February 'Sex, Gender and Essence' (*Humans* Ch. 8)
- 1 March 'The Inseparability of Science and Values' (*Processes* Ch. 3)
- 8 March Q&A session with John Dupré (Background reading: 'The Miracle of Monism' (*Processes* Ch. 1))

## Philosophy of Biology Reading Group

We will be reading *Evolution and the Levels of Selection* by Samir Okasha (OUP, 2006). Meetings will involve a short presentation by a member of the group followed by a general discussion.

Meetings will take place on **Fridays at 2–3pm in the Lodge Seminar Room** and are open to all. Organised by Jonathan Birch.

- 20 January Chapter 1, 'Natural Selection in the Abstract'
- 27 January Chapter 2, 'Selection at Multiple Levels: Concepts and Methods'
- 3 February Chapter 3, 'Causality and Multi-Level Selection'
- 10 February Chapter 4, 'Philosophical Issues in the Levels-of-Selection Debate'
- 17 February Chapter 5, 'The Gene's-Eye View and Its Discontents'
- 24 February Chapter 6, 'The Group Selection Controversy'
- 2 March Chapter 7, 'Species Selection, Clade Selection, and Macroevolution'
- 9 March Chapter 8, 'Levels of Selection and the Major Evolutionary Transitions'

# Science and Literature Reading Group

## *Botany and Literature*

We meet on **Mondays from 7.30 to 9pm in the Godwin Room at Clare College (Old Court)**. Some readings are available online: follow the links at [www.hps.cam.ac.uk/seminars](http://www.hps.cam.ac.uk/seminars). Copies of the harder-to-obtain items will be placed in our box file in the Whipple Library.

Organised by Daniel Friesner (Science Museum), Esther Momcilovic (HPS) and Liz Smith (Darwin Correspondence Project). All welcome!

- 30 January Travellers' tales  
'Description of the poison-tree, in the island of Java, by N.P. Foersch. Translated from the original Dutch, by Mr. Heydinger.' *The London Magazine*, Vol. 52, 1783, pp. 512–517.  
Stéphanie Félicité de Genlis, *Zuma, ou la decouverte de quinquina* (1817), translated as *Zuma, or the tree of health*, London: 1818.
- 13 February The joys of botanising  
Jean-Jacques Rousseau, *Letters on the Elements of Botany: Addressed to a Lady*, translated by Thomas Martyn. Second edition, London: 1787. Letter I, 22 August 1771, pp. 19–26.  
Grant Allen, 'Dissecting a Daisy'. *Cornhill Magazine*, Vol. 37, Jan. 1878, pp. 61–75.  
A.J. Cronin, *A Song of Sixpence*, Ch. 13, pp. 103–111. London: Heinemann, 1964.
- 27 February The loves of the botanists  
Erasmus Darwin, *The Loves of the Plants* (1789), Canto I. Fourth edition 1796, pp. 1–38.  
Charlotte Smith, 'A Walk in the Shrubbery'. In *Beachy Head, with Other Poems*, London: 1807, pp. 125–130.  
W.R. Megaw, *Ulota*, Ch. VIII, pp. 66–87, 'A story with many interruptions'. Belfast: The Quota Press, 1934.
- 12 March Deadly pursuits  
Nathaniel Hawthorne, 'Rappaccini's Daughter', first published under the title 'Writings of Aubépine', *United States Magazine and Democratic Review*, Vol. XV, December 1844, pp. 545–560. Reprinted in *Mosses from an Old Manse* (1846). Edinburgh: 1883, pp. 93–130.  
John Murray Reynolds, 'The Devil-Plant'. *Weird Tales*, Vol. 12, Sept 1928, pp. 295–302, 430–432.

## 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 we will continue with our theme of '**Elements of Controversy**', while broadening our focus to include cross-cultural encounters.

The group meets four times per term, on **Mondays, 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](http://www.hps.cam.ac.uk/adhoc).

Organised by Hasok Chang and Jenny Rampling.

- 23 January **Geoffrey Lloyd (HPS, Cambridge)**  
Fire and water: Elements? Processes? Greek and Chinese views  
Extracts from Heraclitus (12, 30 and 31 in Kirk, Raven & Schofield, *Presocratic Philosophers*), Aristotle (*De Caelo* III 3 and *De Generatione et Corruptione* II 3–5) and Theophrastus (*On Fire*, chs. 3–4).  
*The Huainanzi: A Guide to the Theory and Practice of Government in Early Han China*, by Liu An, King of Huainan, trans. & ed. J.S. Major, S. Queen, A. Meyer, and H. Roth (New York, 2010), chs. 3–4.
- 6 February **Vangelis Koutalis (University of Ioannina)**  
The conception of elements in Humphry Davy's *Elements of Chemical Philosophy*  
Humphry Davy, *Elements of Chemical Philosophy*, Pt. 1, Vol. 1 (London, 1812), pp. xi–xiv, 478–489.  
Thomas Thomson, *Elements of Chemistry*, Vol. I (Philadelphia, 1810), pp. 13–14, 67, 92.  
John Murray, *Elements of Chemistry* (Edinburgh, 1810), pp. 13–16.

- 20 February 'Oxygen' (details TBC)  
 5 March **Gabriele Ferrario (Taylor-Schechter Genizah Research Unit, Cambridge)**  
 Sulphur and mercury: Judaeo-Arabic alchemy in the Cairo Genizah  
 Gabriele Ferrario, 'Judaeo-Arabic Alchemy and Medicine' (draft book chapter).

## Twentieth-Century Biology Reading Group

The group will discuss papers relating to the history, philosophy and historiography of 20th-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 and Salim Al-Gailani.

- 24 January Ilana Löwy, *A Woman's Disease: The History of Cervical Cancer* (Oxford: Oxford University Press, 2011)  
 7 February Ilana Löwy, *Preventive Strikes: Women, Precancer, and Prophylactic Surgery* (Baltimore: Johns Hopkins University Press, 2010), chapters TBA  
 21 February Hans-Jörg Rheinberger, *An Epistemology of the Concrete: Twentieth-Century Histories of Life* (Durham & London: Duke University Press, 2010), chapters TBA  
 6 March Michael Lynch, Simon A. Cole, Ruth McNally and Kathleen Jordan, *Truth Machine: The Contentious History of DNA Fingerprinting* (University of Chicago Press: 2009), chapters TBA

## History and Theory Reading Group

### *Classics in Integrated HPS*

This term we continue our series on influential past works that combine history of science and philosophy of science. There will be meetings on three linked nineteenth-century authors (Whewell, Mill and Peirce) followed by one meeting on the Department's founder, Gerd Buchdahl.

We meet on **alternate Fridays, 2.30pm to 4pm in Seminar Room 1**. Articles will be placed in a History and Theory box in the Whipple and emailed to the hps-discussion list. Organised by Michael Bycroft and Minwoo Seo.

- 20 January **Simon Schaffer** introduces William Whewell's 'History/Philosophy of the Inductive Sciences'  
 Selections from Whewell's 'History of the Inductive Sciences' and 'Philosophy of the Inductive Sciences'.  
 Selections from Simon Schaffer, 'Whewell's Politics of Language', in *William Whewell: A Composite Portrait*, ed. Menachem Fisch and Simon Schaffer (Oxford: Clarendon, 1991).  
 Richard Yeo, 'Using History' (ch. 6), in *Defining Science: William Whewell, Natural Knowledge, and Public Debate in Early Victorian Britain* (Cambridge University Press, 1993).
- 3 February **Anna Alexandrova** introduces John Stuart Mill's 'On the Logic of the Moral Sciences'  
 Selections from Mill's 'On the Logic of the Moral Sciences' (Bk. VI), in *A System of Logic* (Toronto University Press, [1843], 1974).  
 Laura Snyder, 'Mill's Radicalization of Induction', in *Reforming Philosophy: A Victorian Debate on Science and Society* (University of Chicago Press, 2006).
- 17 February **Chiara Ambrosio** introduces Charles Sanders Peirce's philosophy of history of science  
 Selections from Peirce, *Historical Perspectives on Peirce's Logic of Science*, ed. by Carolyn Eisele (New York: Mouton, 1985).  
 Chiara Ambrosio, 'Reasoning in Action: Charles S. Peirce and the History of Science'.  
 (Optional) John Wettersten and Joseph Agassi, 'Whewell's Problematic Heritage', in *William Whewell: A Composite Portrait*, ed. by Menachem Fisch and Simon Schaffer (Oxford: Clarendon, 1991).
- 2 March **Katharina Kraus** introduces Gerd Buchdahl's 'Metaphysics and the Philosophy of Science'  
 Selections from Buchdahl, 'Kant: The Shift from Metaphysics to Transcendental Logic', in *Metaphysics and the Philosophy of Science: the Classical Tradition from Descartes to Kant* (Oxford: Basil Blackwell, 1969).

Buchdahl, 'The Study of Science as Vocation and as Criticism' (*The Cambridge Review*, 9 June, 1962).  
 Buchdahl, '25 Years of HPS at Cambridge' (*The Cambridge Review*, Dec. 1989).  
 Nick Jardine, 'Hermeneutic Strategies in Gerd Buchdahl's Kantian Philosophy of Science', *Studies in History and Philosophy of Science Part A*, 34 (2003), 183–208.

## Kant Reading Group

In Lent Term, we will read the **Analytic** of the *Critique of Practical Reason* (1788).

The *Critique of Practical Reason*, the second of Immanuel Kant's three *Critiques*, deals with his account of moral philosophy. In it, Kant develops his theory of practical reason as the faculty for determining the will and he restates his claim to have discovered the supreme principle of practical reason, which he calls the Categorical Imperative (5:21; 5:30). According to Kant, this principle is an imperative for finite beings like us, who have needs and inclinations and are not perfectly rational. Alongside the derivation of his supreme moral principle, Kant analyses its relation to the idea of freedom. Thus, he gives a short, yet powerful argument from freedom to the Categorical Imperative (5:19–30). In addition to claiming that freedom implies subjection to the Categorical Imperative, Kant also argues that moral obligation implies freedom. Furthermore, Kant maintains that the consciousness of this fundamental moral law is a 'fact of reason' because one cannot derive it from any other data of reason (5:31) – a claim that has caused considerable controversy among commentators.

Meetings are held in the **Lodge Seminar Room, 3.30–5.00pm on Mondays**. 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 (1788, 1996) (CpracR) *Critique of Practical Reason*, trans. and ed. Mary J. Gregor, Cambridge: CUP.

23 January	Preface & Introduction, 5:03–16
30 January	Chapter I: On the Principles of Pure Practical Reason (1.–6.), 5:19–30
6 February	Chapter I: On the Principles of Pure Practical Reason (7.–8.), 5:31–41
13 February	I. On the Deduction of the Principles of Pure Practical Reason, 5:42–50 II. On the Warrant of the Pure Reason in its Practical Use, 5:50–57
20 February	Chapter II: On the concept of an object of pure practical reason, 5:57–71
27 February	Chapter III: On the incentives of pure practical reason, 5:71–89
5 March	Critical Elucidation of the Analytic of Pure Practical Reason, 5:89–106
12 March	Outlook: Dialectic: Chapter II: On the dialectic of pure practical reason in determining the concept of the highest good, 5:110–113 III. On the Primacy of Pure Practical Reason in its Connection with Speculative Reason, 5:119–121

## Philosophy and History of Physics Reading Group

### *The Rise of Field Physics*

This reading group meets on **Tuesdays, 2.30–3.30pm in Seminar Room 1**. Organised by Hasok Chang, Simon Schaffer, Nazim Bouatta and Jeremy Butterfield.

See [www.hps.cam.ac.uk/seminars](http://www.hps.cam.ac.uk/seminars) for this term's schedule.

## Latin Therapy

Latin Therapy will meet on **Fridays in the Lodge Seminar Room from 4–5.30pm**. The first meeting this term will take place on 20 January and the last on 16 March. 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](http://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 Lodge Seminar Room from 5.30 to 7pm**. We are an informal group for beginners and for experienced readers of Greek seeking to brush up their skills. The first hour of every session consists of a basic grammar session and reading simple texts, followed by an hour of reading a slightly more advanced text (TBA, but often Plato). For information or to be added to the mailing list, please email Liz Smith.

# Easter term 2012

## 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 Karin Ekholm.

- 26 April **Marie-Françoise Besnier (GKAB Project, HPS, Cambridge)**  
Textual transmission and hypertextuality in ancient Mesopotamia: the example of the divinatory series *šumma ālu* and *šumma izbu* (second to first millennia BC)
- 3 May **Catherine Wilson (University of Aberdeen)**  
'Lucretian pessimism' or, what was Kant's critical philosophy critical of?
- 10 May **Khadija Carroll La (Newton Fellow, HPS, Cambridge)**  
Colonial classification
- 17 May **Miriam R. Levin (Case Western Reserve University)**  
Urban modernity: reconsidering Paris from 1852 to 1914
- 24 May **Seventeenth Annual Hans Rausing Lecture (Mill Lane Lecture Room 1)**  
**Thomas Schlich (McGill University)**  
The modern rise of surgery: gloves as a technology of control
- Wed 30 May **Special Seminar**  
**Steven Shapin (Harvard University)**  
The sciences of subjectivity

### Abstracts

- 26 April **Marie-Françoise Besnier (GKAB Project, HPS, Cambridge)**  
Textual transmission and hypertextuality in ancient Mesopotamia: the example of the divinatory series *šumma ālu* and *šumma izbu* (second to first millennia BC)

In the middle of the second millennium, an Akkadian literature began to develop around the observation of omens. Omens were grouped into collections according to their topics. Each omen was structured as a conditional sentence: the first clause, the protasis, describes an ominous occurrence; the second clause, the apodosis, its significance. The omen series known by its first line, *šumma ālu ina mēlê šakin* (if a city is located on a height), is a compendium of terrestrial omens ('black cat' type omens), which covered all aspects of urban and domestic life. For instance: 'If a pig is carrying a reed bundle and roams around in the street: there will be trade.' The series *šumma izbu* (if an anomaly) is the Mesopotamian teratomanancy, and is concerned with live-births, still-births, and miscarriages, both for human beings and animals. Both series were often intermingled and, like most Mesopotamian literature, have been copied down by generations of scribes, throughout second and first millennia BC.

In Ancient Near Eastern studies, it has long been assumed that textual transmission was limited to a simple process of 'canonisation' or 'standardisation'. Yet, a thorough study of the so-called 'canonised' Mesopotamian manuscripts indicates that such a view is too reductive. Many sources, especially the ones dealing with knowledge and meaning, such as the divinatory series, proved to be intractable to such a process. They thus form a corpus of 'literature in the second degree', closely related to each other through a relationship of hypertextuality (according to G. Genette's definition of the term). In this way, the textual traditions are indeed the cultural memory of the society, but also conform to the new cultural realities. I shall concentrate here on the history of the series *šumma ālu* and *šumma izbu*, and determine their transtextual relationships and their transformation through, amongst other methods, the study of linguistic *repertoires*.

- 3 May **Catherine Wilson (University of Aberdeen)**  
'Lucretian pessimism' or, what was Kant's critical philosophy critical of?

Kant's 'critical turn' is often said to reflect his discovery of a third way between Lockean empiricism and Leibniz-Wolffian rationalism. Yet settling the debate over the role of experience vs. the a priori in the style of 1703 does not seem to have been at the top of Kant's philosophical agenda. The talk presents an interpretation of the critical turn as Kant's secular solution to 'Lucretian pessimism' – the existential angst of an 18th-century student of physical geography and anthropology disturbed by conjectures regarding the kinship of human and

ape, the absence of a proper foundation for morals, and the apparent futility of the individual human life from the perspective of the student of nature.

10 May **Khadija Carroll La (Newton Fellow, HPS, Cambridge)**

Colonial classification

Indigenous environmental knowledge and language was recorded in the field records of natural historians and the artists they employed. These indigenous classifications remain in those expedition notes as they were excluded from dominant scientific systems when the information returned to European metropolitan centres. This paper retrieves and interprets ideas of this kind, from natural historical collections gathered in southeastern Australia in the 19th century.

Presenting the photographic encyclopedia *Australien in 142 Photographischen Abbildungen*, I argue that its author's career (Wilhelm von Blandowski, 1822–1878) failed precisely because he tried to foreground Aboriginal classification in comparative and metropolitan, as well as particularly Australian, contexts. For instance, Blandowski illustrated new types of fish in 1857 based on indigenous taxonomies guided by maturation stages rather than species. The Philosophical Society subsequently censored Blandowski; he was sacked from his positions as the first director of Museum Victoria and the first Government Zoologist of Victoria, and died aged 56 in a psychiatric asylum in Bunzlau. I contextualize his findings as efforts to document and mobilize indigenous models within the politics of colonial classification and theorize his particular brand of troubled humanism, antiquarian imagery, and Romantic *Naturphilosophie* in the wake of the Humboldts.

17 May **Miriam R. Levin (Case Western Reserve University)**

Urban modernity: reconsidering Paris from 1852 to 1914

At the close of the 19th century, industrialization and urbanization marked the end of the traditional understanding of society as rooted in agriculture. Paris was both the cultural capital of the 19th century and an international symbol of modernity. This lecture will discuss the efforts of Paris-based urban elites under two different political regimes to construct an urban-centred, industrial-based culture – an entirely new social reality based on science and technology. The synergy they created among expositions, urban rebuilding and museums provides the foundation for a new understanding of modernity's history in which science and technology were constitutive. These and similar efforts in London, Chicago, Berlin and Tokyo are the subject of a new book by Professor Levin and four colleagues.

24 May ***Seventeenth Annual Hans Rausing Lecture (Mill Lane Lecture Room 1)***

**Thomas Schlich (McGill University)**

The modern rise of surgery: gloves as a technology of control

The history of surgical gloves embodies the main strategies at work in the modern rise of surgery. In the course of the 19th century, surgeons learned to treat numerous injuries and disorders by interventions in all areas of the living body. Rather than being determined simply by the power of great ideas or the logic of technical progress, this transformation of surgery was made possible by a network of control technologies that enhanced manipulability and visibility. Two principles of control – manual control and aseptic control – clashed in a major debate over surgical gloves. Surgeons assessed the pros and cons of the different strategies as they tried to resolve the conflict by adjusting gloves' materials, design and use. We should not dismiss these debates as if they concerned mere technical details, for they reveal the dynamics of the control network. They show that the rise of surgery was an open-ended process, shaped by a multiplicity of practical, local concerns, and full of contradictions and compromises. This analysis places surgical innovation alongside other areas, such as science and industry, in which control played a major role as part of the emergence of modern societies in the same time period.

## 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 Sophie Waring.

- 30 April **Flavio Häner (Pharmacy Museum, University of Basel)**  
Raiders of the lost ark: an introduction into the practical archaeology of knowledge at the collections of the University of Basel
- Tue 15 May Cabinet trip to Kew
- 21 May **Charlotte Sleigh (University of Kent)**  
'It is indeed a thing ominous for a Toad to be born of Woman': taking experimental frogs and toads seriously
- 28 May **Jenny Bangham (HPS, Cambridge)**  
Skulls from the dead, blood from the living: human heredity and race in interwar Britain

## Twentieth Century Think Tank

The Twentieth Century Think Tank (TCTT) is a discussion group organised by graduate students and postdoctoral fellows at HPS. It offers broad coverage of 20th- and 21st-century topics in the history, philosophy and sociology of science, technology and medicine.

Meetings are held **every other Tuesday during term from 1pm–2pm in Seminar Room 1** unless otherwise indicated. All welcome!

For more information, please visit our website <https://sites.google.com/site/hpstthinktank>. To join the mailing list, please contact the organisers, Leon Rocha and Kathryn Schoefert.

- 1 May **Lydia Wilson (HPS, Cambridge)**  
Preserving scientific heritage: collaborating with scientists
- 8 May **Michael Guggenheim (Goldsmiths, University of London)**  
Bunkers and other risk assessments: (im-)material calculations of military and natural disasters  
Please note that this seminar takes place **from 5pm to 7pm at CRASSH Seminar Room SG2**. Co-organised with the 'Between Civilisation and Militarisation' Group.

## Things: Material Cultures of the Long Eighteenth Century

We meet **alternate Tuesdays 12.30–2.30pm in the CRASSH Seminar Room at 7 West Road on the Sidgwick Site**.

For further information, including a link to the *Things C18th* blog, or to subscribe to the mailing list, go to [www.crassh.cam.ac.uk/page/1036/thingsmaterial-cultures-18thc.htm](http://www.crassh.cam.ac.uk/page/1036/thingsmaterial-cultures-18thc.htm)

The 18th century was the century of 'stuff'. Public production, collection, display and consumption of objects grew in influence, popularity and scale. The form, function and use of objects, ranging from scientific and musical instruments to weaponry and furnishings, were influenced by distinct features of the time. Eighteenth-century knowledge was not divided into strict disciplines, in fact practice across what we now see as academic boundaries was essential to material creation. This seminar series will use an approach based on objects to encourage us to consider the unity of ideas of the long-18th century, to emphasise the lived human experience of technology and art, and the global dimension of material culture. We will re-discover the interdisciplinary thinking through which 18th-century material culture was conceived, gaining new perspectives on the period through its artefacts.

Each seminar features two talks considering the same type of object from different perspectives.

- 1 May **Melissa Calaresu and Emma Spary (University of Cambridge)**  
Food
- 15 May **Mary Brooks (York Museums Trust) and Tara Hamling (University of Birmingham)**  
Decorative textiles
- 29 May **James Davey, John McAleer and Quentin Colville (National Maritime Museum)**  
The ship
- 12 June **Faramerz Dabhoiwala (University of Oxford) and Simon Chaplin (Wellcome Library)**  
The body

We will be rounding off the year with a one-day colloquium on Friday 28 September 2012: 'We Need to Talk about "Things": Concluding Colloquium'. See the website for details.

# HPS History Workshop

Are you wishing for advice on how to write the tricky bit of your argument? Not sure how to write a good introduction? Trying to convert an essay or a chapter into an article? Sign up to share a draft of your next PhD chapter, book chapter, conference paper, journal article or MPhil essay with an audience of friendly HPS postgraduates and postdocs!

The History Workshop is an informal setting to discuss your written works-in-progress on any area of the history of science, medicine and technology, and get feedback from your early-career colleagues. Your paper will be circulated by email before the workshop. We'll then discuss it together over tea and biscuits at **5pm on alternate Wednesdays in Seminar Room 1**.

Sign up now to share your work with this new format of the History Workshop! Please contact Rohan Deb Roy or Caitlin Wylie.

- 9 May **Jesse Olszynko-Gryn (HPS, Cambridge)**  
The global biopolitics of female sterilization
- 23 May **Jacob Habinek (University of California, Berkeley)**  
Conflict of the faculties? The philosophical and medical contexts of comparative anatomy, c.1800
- 6 June **Irene Gouderouli (University of Athens)**  
Conceptual change in history of science
- 20 June **Ruth Horry (HPS, Cambridge)**  
Studying Babylonia in Philadelphia: Assyriological practice and the University of Pennsylvania's museum, c.1900

# HPS 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. The workshop consists of a 25 minute presentation, followed by 35 minutes of Q&A.

Meetings take place **every other Wednesday** (2 May, 16 May and 30 May) **from 1–2pm in Seminar Room 1**. If you would like to present, or have any questions, please contact Vashka dos Remedios.

# Graduate Training

Training workshops for the Department's graduate students and postdoctoral researchers are held throughout the academic year. Most, but not all, are on **Fridays at 1pm in Seminar Room 1**. The full programme is available at [www.hps.cam.ac.uk/students/training](http://www.hps.cam.ac.uk/students/training).

# Philosophy of Science Reading Group

We will be reading *Science in a Democratic Society* by Philip Kitcher (Prometheus, 2011). Meetings involve a short presentation by a member of the group followed by a general discussion.

Meetings will take place on **Thursdays at 2–3.30pm in Seminar Room 1** and are open to all. Organised by Jonathan Birch and Hasok Chang.

- 26 April Chapter 1, 'The Erosion of Scientific Authority'
- 3 May Chapter 2, 'Discussing Values'
- 10 May Chapter 3, 'Democratic Values'
- 17 May Chapter 4, 'The Evolution of Public Knowledge'
- 24 May Chapter 5, 'Well-Ordered Science'

We may continue the reading group beyond Week 5 if there is sufficient interest in doing so.

# Philosophy of Biology Reading Group

We will be reading *Did Darwin Write the Origin Backwards?* by Elliott Sober (Prometheus, 2011). Meetings involve a short presentation by a member of the group followed by a general discussion. Meetings will take place on **Fridays at 2–3pm in the Lodge Seminar Room** and are open to all. Organised by Jonathan Birch.

- 27 April Chapter 1, ‘Did Darwin Write the Origin Backwards?’
- 4 May Chapter 2, ‘Darwin and Group Selection’
- 11 May Chapter 3, ‘Sex Ratio Theory – Darwin, Before, and After’
- 18 May Chapter 4, ‘Darwin and Naturalism’
- 25 May Talk by **Elliott Sober**

# 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](http://www.reproduction.group.cam.ac.uk)). We also hold work-in-progress sessions.

This term’s meeting will be at 5–7pm (tea from 4.50) on **Tuesday 22 May in Seminar Room 1**. To join the group, please email [generate@hermes.cam.ac.uk](mailto:generate@hermes.cam.ac.uk).

# Kant Reading Group

In Easter Term, we will read papers from a selection of secondary literature on the topics we have covered during Michaelmas and Lent Term, i.e., the Analytic of Principles of the *Critique of Pure Reason* (1781/1787) and the Analytic of the *Critique of Practical Reason* (1788). In particular, we will focus on the conception of ‘spontaneity of reason’, which seems to be all-important in both *Critiques*. We want to explore the role of spontaneity in theoretical as well as in practical judgments and its connection to the ideas of ‘normativity’ and of ‘transcendental freedom’. We will also look at its specific role within the context of the schematism.

Most papers will be taken from the following selection of readings, among others:

Henry E. Allison (1996). *Autonomy and Spontaneity in Kant’s Conception of Self*. In: *Idealism and Freedom*. Cambridge: CUP.

Stephen Engstrom (2006). *Understanding and Sensibility*. *Inquiry* 49 (1): 2–25.

Susan L. Hurley (1994). *Kant on Spontaneity and the Myth of the Giving*. *Proceedings of the Aristotelian Society* 94: 137–164.

Thomas Land (2006). *Kant’s Spontaneity Thesis*. *Philosophical Topics* 34 (1/2): 189–220.

Douglas Lavin (2004). *Practical Reason and the Possibility of Error*. *Ethics* 114 (3): 424–457.

Robert B. Pippin (1987). *Kant on the Spontaneity of Mind*. *Canadian Journal of Philosophy* 17 (2): 449–475.

Houston Smit (2009). *Kant on Apriority and the Spontaneity of Cognition*. In Samuel Newlands & Larry M. Jorgensen (eds.), *Metaphysics and the Good: Themes From the Philosophy of Robert Merrihew Adams*. Oxford University Press.

We will assign the actual readings during the course of the term. Further suggestions for readings are welcome.

Meetings are held in the **Lodge Seminar Room, 3.30–5.00pm on Tuesdays**, weekly from 1 May to 29 May.

They begin with a short presentation and are followed by general discussion. All are most welcome. If you would like to be emailed the details of the readings, please contact Katharina Kraus.

# Philosophy and History of Physics Reading Group

## *The Rise of Field Physics*

This reading group meets on **Tuesdays, 2.30–3.30pm in Seminar Room 1**. Organised by Hasok Chang, Simon Schaffer, Nazim Bouatta and Jeremy Butterfield.

- 1 May **Nazim Bouatta**  
 8 May **Jeremy Butterfield**  
 15 May **Hasok Chang**  
 22 May TBC

## Science and Literature Reading Group

### *Collectors and Collecting*

We meet on **Mondays from 7.30 to 9pm in Clare College**. Please note that our first meeting is in a different room from usual. Some readings are available online: follow the links at [www.hps.cam.ac.uk/seminars](http://www.hps.cam.ac.uk/seminars). Copies of the harder-to-obtain items will be placed in our box file in the Whipple Library.

Organised by Daniel Friesner (Science Museum), Esther Momcilovic (HPS) and Liz Smith (Darwin Correspondence Project). For more information, or to join our email list, please contact Daniel Friesner or Liz Smith. All welcome!

- 30 April Close to home (in the Thirkill Room)  
 Coultas, Harland (1858). Wild flowers and their teachings. *Lady's Home Magazine* 11, pp. 245–7.  
 Budgen, L.M. (1850). The caged lady-birds. A fragment. *Episodes of Insect Life*. 2d ser., pp. 10–21.  
 Gaskell, Elizabeth (1848). *Mary Barton*. London: Chapman and Hall. Volume 1, chapter 5 (pp. 55–84).
- 14 May Collecting and drama (in the Godwin Room)  
 Conrad, Joseph (1900). *Lord Jim*. Edinburgh: Blackwood. Chapter 20 (pp. 189–203).  
 Wells, H.G. (1894). Aepyornis island. In *The Country of the Blind, and Other Stories*. Fairfield, IA: 1st World Library 2006, pp. 67–80.  
 Doyle, Arthur Conan (1902). *Hound of the Baskervilles*. London: George Newnes. Chapter 7.
- 28 May The romance of collecting (in the Godwin Room)  
 Byatt, A.S. (1990). *Possession*. London: Chatto & Windus, 1990. Pages TBA.  
 Davies, Martin (2005). *The Conjuror's Bird*. London: Hodder & Stoughton. Chapters 1–6 (pp. 1–54). Or the whole thing if you're keen!
- 11 June Modern perspectives (in the Godwin Room)  
 Rieber, John Ney (1995). *Books of Magic: Bindings*. New York, NY: DC Comics.  
 Bantock, Nick (1999). *The Museum at Purgatory*. New York, NY: Harper Collins.

## 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 **'The Material Culture of Chemistry'**.

The group meets four times per term, on **Mondays, 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](http://www.hps.cam.ac.uk/adhoc).

Organised by Hasok Chang and Jenny Rampling.

- 30 April **Vanessa Heggie (HPS, Cambridge)**  
 Vital elements: biochemistry, respiration and exploration  
 Vanessa Heggie, 'Experimental Physiology, Everest and Oxygen: from the Ghastly Kitchens to the Gasping Lung,' *British Journal of the History of Science* (forthcoming, Sept. 2012).  
 A. Mosso, *Life of Man on the High Alps*, 2nd Edn, trans. E. Lough Kiesow (London: Taylor Unwin, 1898), Chapters XIV ('Chemical Activity of the Respiration on the Alps') and XV ('Analysis of Asphyxia and of Mountain-Sickness'). Online at: <http://archive.org/details/lifeofmanonhigha00mossuoft>
- 14 May **Anna Marie Roos (University of Oxford)**  
 Salt chemistry and early modern natural history

Anna Marie Roos, 'Salient theories in the fossil debate in the early Royal Society: The influence of Johann Van Helmont,' *Controversies Within the Scientific Revolution* (Amsterdam: John Benjamins, 2011), pp. 151–171.

Anna Marie Roos, 'All that glitters: fool's gold in the early-modern era,' *Endeavour*, Dec. 32(4) (2008): 147–51.

28 May **Spike Bucklow (Hamilton Kerr Institute, Cambridge)**

White lead: the material culture of an 'alchemical' pigment

Spike Bucklow, 'Lead white's mysteries' (draft chapter from a forthcoming volume).

11 June **Robert Anderson (Clare Hall, Cambridge)**

Dealing with laboratories

Robert G.W. Anderson, 'Approaching laboratories' (draft article)

## History and Theory Reading Group

### *Uses of the Social from Fleck to Kuhn*

This term we continue our series of 'classic' works in HPS, this time with a sociological theme. Our aims are to find out what some influential thinkers have meant by the social by exploring their use of that notion; and to find out how historians of science can and have used that notion.

Meetings take place on **Fridays, 2.30 to 4pm in Seminar Room 1**. Hard copies of the readings will be placed in a box in the Whipple, and soft copies sent to the hps-discussion list in advance of each meeting. All are welcome. Please note that the first three meetings will take place weekly, not fortnightly. Organised by Michael Bycroft and Minwoo Seo.

27 April **Josh Nall** introduces Michael Polanyi

Michael Polanyi, 'The Rights and Duties of Science', *Manchester School of Economic and Social Studies* 10 (1939), 175–193.

Michael Polanyi, 'The Growth of Thought in Society', *Economica* 8 (1941), 428–456.

Mary Jo Nye, 'Scientific Freedom and the Social Functions of Science' (ch. 6), in *Michael Polanyi and His Generation: Origins of the Social Construction of Science* (Chicago: University of Chicago Press, 2011), 183–222.

4 May **Nick Hopwood** introduces Ludwik Fleck

Extracts from Ludwik Fleck, *The Genesis and Development of a Scientific Fact* (Chicago, 1979).

Secondary readings TBC.

11 May **John Forrester** introduces Thomas Kuhn

Kuhn, 'The Priority of Paradigms' (ch. 5) and 'Postscript', in *The Structure of Scientific Revolutions* (Chicago, 1970).

John Forrester, 'Kuhn's Case: Psychoanalysis and its Paradigm', *Critical Inquiry* 9 (2007), 1–27.

25 May **Nick Jardine** introduces Peter Winch

Peter Winch, 'Social Studies of Science' (ch. 3) and 'The Mind and Society' (ch. 4), in *The Idea of a Social Science and its Relation to Philosophy* (Routledge, 1958).

Colin Lyas, "'I Was Investigating the Notion of the Social": The Idea of a Social Science' (ch. 2) in *Peter Winch* (Acumen, 1999).

Nick Jardine, 'Uses and Abuses of Anachronism in the History of Science', *History of Science* 38 (2000), 251–70.

## Latin Therapy

Latin Therapy will meet on **Fridays in the Lodge Seminar Room from 4–5.30pm**. The first meeting this term will take place on 27 April and the last on 15 June. 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](http://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 Lodge Seminar Room from 5.30 to 7pm**. We are an informal group for beginners and for experienced readers of Greek seeking to brush up their skills. The first forty-five minutes of every session consists of a basic grammar session and reading simple texts, followed by a further forty-five minutes of reading a slightly more advanced text (we are currently reading Plato's *Protagoras*). For information or to be added to the mailing list, please email Liz Smith.