

# Seminars

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## Departmental Seminars

Seminars are held on **Thursdays in Seminar Room 2**, Department of History and Philosophy of Science, Free School Lane, Cambridge.

The first two seminars of this term will begin at **4.30 with tea at 4pm**; from 29 January the seminar will begin at **3.30 with tea at 3pm**.

Organised by Richard Staley and Marta Halina.

- 15 January *Tenth Cambridge Wellcome Lecture in the History of Medicine*  
4.30pm **Rebecca Fleming (Classics, Cambridge)**  
One-seed, two-seed, three-seed? Reassessing ancient theories of generation
- 22 January **Anke Timmermann (HPS, Cambridge)**  
4.30pm Colour me alchemical, or: form, execution and function in alchemical illustrations
- 29 January **Sherrilyn Roush (King's College London)**  
3.30pm The rationality of science in relation to its history
- 5 February **Julian Reiss (Durham University)**  
3.30pm Cause, causatives and theories of causation
- 12 February **Frank Uekotter (University of Birmingham)**  
3.30pm The enigma of environmentalism: the power of knowledge and the power of memory
- 19 February **Arne Schirmacher (Humboldt University, Berlin)**  
3.30pm Towards a history of interactivity (through interactive objects)
- 26 February **Eran Tal (HPS, Cambridge)**  
3.30pm The shifting economies of measurement uncertainty
- 5 March **Julie Anderson (University of Kent)**  
3.30pm From craft to mass production? Design, manufacture and patents for artificial limbs, 1890–1925

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Seminar Programmes are sent out at the start of every term to the names on our mailing list. Please contact the Department if you would like to be added to or removed from the mailing list, or if you change your address.

Seminar information is also available at [www.hps.cam.ac.uk/seminars](http://www.hps.cam.ac.uk/seminars)

**Department of History and Philosophy of Science, University of Cambridge**  
**Free School Lane, Cambridge CB2 3RH**

# Abstracts

15 January *Tenth Cambridge Wellcome Lecture in the History of Medicine*

**Rebecca Fleming (Classics, Cambridge)**

One-seed, two-seed, three-seed? Reassessing ancient theories of generation

Medical and philosophical theories of generation from the classical world are often classified according to whether the female as well as the male produces ‘seed’, the substance which does the most important work in procreation. Aristotle is usually identified as the most influential proponent of the ‘one-seed model’, while Galen champions the ‘two-seed’ cause, and the debate between them continues, and continues to matter, for centuries. At stake here is not just theoretical efficiency – how well the full complexities of parental resemblance are accounted for by the contending notions, for example – but also, it has been suggested, politics and patriarchy. Two seeds are thus better, more egalitarian, than one, because this model values the female role in generation more positively. The lecture will argue that not only this characterisation, but the division itself, is misleading. Another way must be found to understand the key concepts in these foundational debates.

22 January **Anke Timmermann (HPS, Cambridge)**

Colour me alchemical, or: form, execution and function in alchemical illustrations

Illustrations in alchemical manuscripts have received some scholarly attention in recent years, often with a focus on the colourful and beautiful, and in exploration of a single author’s work, of a specific text and its illustrations, or of an individual manuscript. This talk will provide additional perspectives on alchemy and images through the lens of substantial collections such as those held in Cambridge archives: manuscripts not primarily selected for their artistic qualities, but by their original collectors’ miscellaneous interests, by institutions’ collection strategies and more or less successful attempts at preservation, and generally, by the chance of survival. I will offer an overview of the nature and extent of illustration in alchemical manuscripts, and then present a case study to investigate why, how and how successfully writers of manuscripts in the early modern period illustrated alchemical works. Particular emphasis will be placed on the concepts of movement in drawings and the connection between experimentation, illustration and perception.

29 January **Sherrilyn Roush (King’s College London)**

The rationality of science in relation to its history

Many philosophers have thought that Kuhn’s claim that there have been paradigm shifts introduced a problem for the rationality of science, because it appears that in such a change nothing can count as a neutral arbiter; even what you observe depends on which theory you already subscribe to. The history of science challenges its rationality in a different way in the pessimistic induction, where failures of our predecessors to come up with true theories about unobservable entities is taken by many to threaten the rationality of confidence in our own theories. The first problem arises from a perception of uncomfortably much discontinuity, the second from an unfortunate kind of continuity, in the track record of science. I argue that both problems are only apparent, and due to under-description of the history. The continuing appeal of the pessimistic induction in particular is encouraged by narrow focus on a notion of method that Kuhn was particularly eager to resist.

5 February **Julian Reiss (Durham University)**

Cause, causatives and theories of causation

The aim of this paper is to draw attention to the difficulties the ubiquity of causatives such as oxidise, transduce, dampen and prolong in scientific language raise for truth-conditional theories of causation which have the form ‘C causes E if and only if...’ or a near variant. The difficulties are a consequence of three features of the use of causatives in science: they are ineliminable, they represent causal relations and processes of many different metaphysical kinds, and they are

polysemous. I argue that no truth-conditional theory of causation can do justice to the use of causatives in scientific language. I then sketch an alternative, inferentialist theory of causation and finally show how it deals with causatives.

12 February **Frank Uekotter (University of Birmingham)**

The enigma of environmentalism: the power of knowledge and the power of memory

Few recent phenomena have received more divergent readings than modern environmentalism. Even its general nature is open to debate: was environmentalism a social movement, or a broader cultural force, or even a ‘new enlightenment’, as Joachim Radkau argued in a recent book? This big-picture talk seeks to gain a better understanding of environmentalism as it evolved post-1945 through the combined forces of memory studies and the history of knowledge. More than other movements, environmentalism relied on the cognitive skills and the political pull of scientific expertise. At the same time, environmentalism was perhaps the most powerful transformative force of science in the last third of the 20th century. However, while scientific expertise and its peculiar blinders have received great attention, the power of memory is more of a hidden force – though one that has grown in strength over time. We cannot understand policies on DDT without the legacy of Rachel Carson or the row over genetically modified organisms without the experience of high-risk technologies such as nuclear power and industrial chemistry. So as it stands, environmentalism is about expertise, power, economic interests, and a legacy, with the strains between these forces becoming ever more obvious. In conclusion, this talk will argue that global environmentalism as we know it may prove to be a one-generation project – and that may not even be a bad thing.

19 February **Arne Schirmacher (Humboldt University, Berlin)**

Towards a history of interactivity (through interactive objects)

In the course of the 20th century, science museums stalled, science centres, however, surged. This is presumably due to politics of display or economic constraints; but it is also related to the use of objects. The focus has shifted from artefacts to interactives, as a new paradigm of interactivity greatly influenced how science was exhibited in the public space. In my paper I will discuss some preliminary results of a larger project in preparation, which attempts to write a history of interactivity by studying the development of the science museum in Europe and Northern America between the late 19th and the late 20th century. It appears that a line can be drawn from the Berlin Urania founded in 1888, which leads to the Deutsches Museum and the Science Museum in London as well as to a number of American museums of science and industry opened since the 1920s, which not only carries the idea of interactivity, but which actually is one of ‘objects in transit’. By following push-button experiments, hands-on demonstrations, working models and the like from one place to another, a transatlantic discourse on interactivity may become apparent. While the Exploratorium in San Francisco has absorbed much from East Coast museums and European institutions at the end of the 1960s, the first European science centres imported – or re-imported? – many interactives from there some twenty years later. Clearly, my approach is meant to deconstruct the purported singularity of the Exploratorium and its concept invented by Frank Oppenheimer to some extent by putting it into a wider setting. At the same time this may question the ‘political machines’ pushing the interactive turn, which replaces artefacts of curiosity and narratives of progress, which can be scrutinised, by context-free presentations of entertaining phenomena, which rather cannot.

26 February **Eran Tal (HPS, Cambridge)**

The shifting economies of measurement uncertainty

In 2018 the General Conference on Weights and Measures plans to redefine four of the base units of the International System (SI) – the kilogram, ampere, kelvin and mole – by fixing the numerical values of four fundamental constants. This change is meant to release the uncertainties of metric measurements from their dependence on the idiosyncrasies of particular material artefacts. And yet the planned redefinition raises an epistemological difficulty: in the absence of absolute and concrete standards, what does it mean for a measurement outcome to be more or less accurate? This puzzle is solved, I argue, by acknowledging that measurement uncertainty is a special case of predictive uncertainty, that is, the uncertainty involved in predicting the behaviour of a measurement process with a theoretical and/or statistical model of that process. The uncertainty assigned to a measuring system in the new SI accordingly reflects scientists' ability to use fundamental physical equations to predict the behaviour of that system. Viewed in this light, the planned redefinition of SI units implicitly promotes a new economy of uncertainty in the physical sciences, i.e. a new set of principles for the management of scientific uncertainty that treats measurement as the approximation of ideal theoretical relations. I explore some of the counterintuitive epistemological consequences of this shift.

5 March **Julie Anderson (University of Kent)**

From craft to mass production? Design, manufacture and patents for artificial limbs, 1890–1925

Nineteenth-century artificial limb design and production was a craft based industry. A single prosthesis – a complex construction of wood, leather and fabric – often took longer than six weeks to produce, and each one was individually designed and made for the wearer. The medical profession distanced itself from this work; instead limb makers and fitters took out patents on components and developed new technology to improve the limb's function. The First World War altered this process. As the need for limbs increased with the growing number of amputee soldiers, methods of mass production and standardisation were employed. Yet while the Ministry of Pensions sought standard limbs, the competition between the 22 manufacturers it contracted to provide them created distinct complications, as designs, methods of attachment, and intricate internal machinery were patented. Using a range of sources, including medical manufacturers' catalogues and limb fitters' promotional material, this paper will assess the changing environment of artificial limb production from the late 19th century to the period following the First World War, focusing on the impact of the Ministry of Pensions' interventions on the design, production and patenting process.

# Cabinet of Natural History

This research seminar is concerned with all aspects of the history of natural history and the field and environmental sciences.

Seminars are held on **Mondays at 1pm in Seminar Room 1**. You are welcome to bring your lunch with you. Organised by Margaret Carlyle.

19 January **Alexander Iosad (University of Oxford)**

Cabinets, eclipses and lightning rods: the role of curiosity in the perception of science in 18th-century Russia

26 January **Allegra Fryxell (History, Cambridge)**

Bringing ancient grains to life: Tutankhamen, Egyptomania and modernist enchantment in interwar Britain

2 February **Sophie Waring (HPS, Cambridge)**

‘O! How glad I am I have no pendulum’: in pursuit of the figure of the earth

9 February **Sophie Brockmann (Institute of Latin American Studies, University of London)**

Surveying nature in late-colonial Central America

16 February **Alexander Wragge-Morley (University College London)**

Verbal picturing and aesthetic experience in natural history, 1650–1720

23 February **Neil Pemberton (University of Manchester)**

The death of the kennel: dog-fouling and dog-walking in 1970s Britain

2 March **Michael Bycroft (University of Warwick)**

Jewellers, travellers and the classification of gems, c. 1600–1800

9 March **Petter Hellström (Uppsala University)**

Deadwood taxonomies: trees of nature before evolution

# Twentieth Century Think Tank

## Visual Arguments: Science on Film and other Media

Our exploration of visual arguments will be complemented by readings on related topics in the Twentieth Century Reading Group, which meets on alternate Thursdays.

Think Tank meetings are held on **Thursdays, 1–2pm in Seminar Room 2**. All welcome!  
Organised by Richard Staley, Jesse Olszynko-Gryn and Helen Curry.

22 January **Kelley Wilder (De Montfort University)**

Poster display tactics as photographic arguments

5 February **Vanessa Toulmin (University of Sheffield)**

‘Mad, bad and dangerous to know’ – the myth of the mad scientist in early horror films

19 February **Christos Lynteris (CRASSH, Cambridge)**

The epidemiologist as culture hero: visualising humanity in the age of ‘the next pandemic’

5 March **Tim Boon (Science Museum, London)**

Performing and mediating science on television

12 March **Patrick Ellis (University of California, Berkeley)**

The ‘Aeroplane Gaze’: looking up in 1909

## Early Medicine Seminars

Seminars are on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**. Tea and biscuits are available from 4.40pm. All welcome!

Organised by Lauren Kassell.

20 January **Rebecca Earle (University of Warwick)**

Casta paintings and the colonial body

17 February **Sophie Mann (University of Essex)**

Physic and divinity: the case of Dr John Downes (1626–1694)

10 March **David Shuttleton (University of Glasgow)**

The ‘consultations’ of Dr William Cullen (1710–1790): creating a digital edition

## History of Modern Medicine and Biology Seminars

Seminars are on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**. Tea and biscuits are available from 4.40pm. All welcome!

Organised by Nick Hopwood and Helen Curry.

27 January **Margaret Carlyle (HPS, Cambridge)**

Sizing up the pelvis: birthing technology in late 18th-century France

10 February **Caitjan Gainty (King’s College London)**

Autobiography and the crafting of identity in 20th-century American medicine

3 March **María Jesús Santesmases (CSIC, Madrid)**

Women and children first: imaging medical genetics, 1950s–1970s

## Generation to Reproduction Seminars

These seminars, on **Tuesdays from 5.00 to 6.30pm in Seminar Room 1**, are funded by our Wellcome Trust strategic award in the history of medicine ([www.reproduction.group.cam.ac.uk](http://www.reproduction.group.cam.ac.uk)). Tea and biscuits are available from 4.40pm. All welcome!

Organised by Nick Hopwood and Lauren Kassell.

3 February Reading group to discuss chapters from *Reproduction: Antiquity to the Present*

24 February **Alison Bashford (History, Cambridge)**

Malthus and the South Sea

# Seminars at CRASSH

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## Global Science

Seminars are held on **alternate Tuesdays, 12.00–2.00pm in Room SG1, Alison Richard Building, West Road**. Organised by James Poskett, James Hall, Megan Barford and others.

Website: [www.crassh.cam.ac.uk/programmes/global-science](http://www.crassh.cam.ac.uk/programmes/global-science)

- 13 January **Mark Harrison (University of Oxford)**  
Respondent: **Simon Szreter (History, Cambridge)**  
Risk and security in the ‘age of pandemics’
- 10 February **Alexandra Ion (University of Bucharest)**  
Respondent: **Richard Staley (HPS, Cambridge)**  
The historical character of biological bodies: the construction of the anthropological gaze in the beginnings of Romanian anthropology
- 24 February **Chris Courtney (History, Cambridge)**  
Respondent: **Helen Curry (HPS, Cambridge)**  
The 1931 Central China flood: an environmental history of a humanitarian disaster
- 10 March **Valentina Pugliano (HPS, Cambridge)**  
Respondent: **Kate Fleet (Skilliter Centre for Ottoman Studies, Cambridge)**  
Contact zones/ignoring zones: how to frame knowledge exchanges between early modern Venice and the Ottoman Empire

## Things that Matter, 1400–1900

Seminars are held on **alternate Wednesdays, 12.00–2.00pm in Room SG1, Alison Richard Building, West Road**. Organised by Margaret Carlyle, Michelle Wallis and others. Website:

[www.crassh.cam.ac.uk/programmes/things](http://www.crassh.cam.ac.uk/programmes/things)

- 14 January **Maya Corry (History of Art, Cambridge)**  
**Christian Kühner (University of Freiburg)**  
Devotional things
- 28 January **Sara Pennell (University of Freiburg)**  
**Roisin Inglesby (Victoria & Albert Museum)**  
Anonymous things
- 11 February **Angela McShane (Victoria & Albert Museum)**  
**Nigel Jeffries (Museum of London Archaeology)**  
Drinking things
- 25 February **Robbie Richardson (University of Kent)**  
**Michael Bravo (Scott Polar Research Institute, Cambridge)**  
Postcolonial things
- 11 March **Lisa Jardine (University College London)**  
**Evelyn Welch (King’s College London)**  
Moving things



# Graduate workshops and seminars

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## HPS History Workshop

Need help writing a tricky part of your argument? Need some fresh ideas and references? Or simply want to see how your early-career colleagues approach the writing process? The History Workshop is an informal setting to discuss our written works-in-progress on any area of the history of science, technology and medicine, and share feedback. A draft PhD chapter, article or conference paper will be circulated by email before each meeting. We'll then discuss it together over tea and biscuits at **5pm on alternate Wednesdays in Seminar Room 1**.

Contact Andreas Sommer and/or Seb Falk if you are interested in sharing your work in this forum, or would like to be added to the mailing list.

- 21 January **Kathryn Schoefert (HPS, Cambridge)**  
Research in psychiatry at a time of therapeutic optimism
- 4 February **Clare Griffin (HPS, Cambridge)**  
Finding drugs: Russia and the early modern global medicines trade, 1550–1750
- 18 February **Susanne Schmidt (HPS, Cambridge)**  
The making of the midlife crisis: psychology and feminism in the 1970s
- 4 March **Jason Grier (York University, Canada)**  
Newtonian politics

## Graduate and Postdoc Training

Training workshops for the Department's graduate students and postdoctoral researchers are held throughout the academic year. The full programme is at [www.hps.cam.ac.uk/students/training](http://www.hps.cam.ac.uk/students/training).

Date/time	Event	Notes
Fri 16 Jan, 11am–12noon	Jobseekers' coffee	Thereafter fortnightly
Fri 16 Jan, 1–2pm	How to supervise examinable coursework	Required for new supervisors
Wed 21 Jan, 1–2.30pm	CamPoS	Thereafter weekly
Wed 21 Jan, 5–6pm	HPS History Workshop	Thereafter fortnightly
Fri 23 Jan, 11am–12noon	Supervisors' coffee	Thereafter fortnightly
Fri 23 Jan, 1–2pm	How to give a research talk and chair a session	
Mon 26 Jan, 5–6.30pm	Philosophy of chemistry	Thereafter fortnightly, 4 sessions
Fri 30 Jan, 1–2pm	Researching the history of 20th century science	
Wed 4 Feb, 3–4pm	How to write a Part III/MPhil dissertation	
Fri 13 Feb, 1–2pm	Science, technology and gender	Thereafter weekly, 4 sessions

# CamPoS

CamPoS (Cambridge Philosophy of Science) is a network of academics and students working in the philosophy of science in various parts of Cambridge, including the Department of History and Philosophy of Science and the Faculty of Philosophy. For further details of the composition and activities of CamPoS, see [www.camposgroup.org](http://www.camposgroup.org). The Wednesday afternoon seminar series features current research by CamPoS members as well as visitors to Cambridge and scholars based in nearby institutions.

If you are interested in presenting in the series, please contact Christopher Clarke. If you have any queries or suggestions for other activities that CamPoS could undertake, please contact Huw Price, Jeremy Butterfield or Hasok Chang.

Seminars are held on **Wednesdays, 1.00–2.30pm in Seminar Room 2.**

- 21 January **Cheryl Misak (University of Toronto)**  
The subterranean influence of pragmatism on the Vienna Circle: Peirce, Ramsey, Wittgenstein
- 28 January **Henk de Regt (VU University Amsterdam)**  
Kinds and degrees of (scientific) understanding
- 4 February **Jenny Judge (Centre for Music and Science, Cambridge)**  
TBA
- 11 February **Jonathan Knowles (NTNU – Norwegian University of Science and Technology)**  
Pragmatism and the possibility of naturalistic metaphysics
- 18 February **Christian List (London School of Economics and Political Science)**  
Emergent chance (jointly authored with Marcus Pivato)
- 25 February **Anna Alexandrova (HPS, Cambridge)**  
Psychometric validation as theory avoidance
- 4 March **Christopher Clarke (HPS, Cambridge)**  
The metaphysics of race: distinctions without any differences
- 11 March **Havi Carel (University of Bristol)**  
The philosophical role of illness

# Reading and discussion groups

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## Coffee with Scientists

The aim of this new group is to explore and enhance the interface between HPS and science. Many of us in HPS already have close engagements with science and scientists, but we do not often pull together our activities in those directions. We could benefit from more explicit discussions about the relationship between HPS and the sciences themselves, and from encouraging HPS-scholars and scientists to help each other's work. Many of our graduate students and postdocs currently work in isolation from scientists; they may benefit from the stimulation of interactions with colleagues and mentors from various science departments (in Cambridge and elsewhere), difficult to induce in our regular seminars and reading groups, which tend to be infused with standard HPS expectations, assumptions and customs.

During Lent Term 2015 we will meet on **Fridays, 3.30–5.00pm in Seminar Room 2** (please note slight change of time). Further information and reading materials will be distributed through the email list of the group; please contact Hasok Chang if you would like to be included on the list.

23 January 'Citizen Science', discussion with Dr Kat Austen

There will be further meetings on 6 February, 20 February and 6 March.

## Nature and Culture Reading Group

This term we will be looking at selected readings on the philosophy of biology of race. Please contact Beth Hannon if you have any difficulty locating the readings.

Meetings will take place on **Tuesdays, 1.00–2.00pm in Seminar Room 1**. Everyone welcome!

20 January Mills, C. 1988. 'But What Are You Really? The Metaphysics of Race', *Blackness Visible*, Ithaca, New York: Cornell University Press, pp. 41–66.

27 January Glasgow, J. 2009. 'Breaking Nature's Bones', *A Theory of Race*, Oxford: Routledge, pp. 80–112.

3 February Pigliucci, M. and Kaplan, J. 2003. 'On the Concept of Biological Race and Its Applicability to Humans', *Philosophy of Science*, 70, pp. 1161–72.

10 February Spencer, Q. 2014. 'A Radical Solution to the Race Problem', *Philosophy of Science*, 81, pp. 1025–38.

17 February Appiah, A. 2006. 'How to Decide if Races Exist', *Proceedings of the Aristotelian Society*, 106, pp. 365–82.

24 February Mallon, R. 2006. "'Race": Normative Not Metaphysical or Semantic', *Ethics*, 116, pp. 525–51.

3 March Haslanger, S. 2005. 'What Are We Talking About? The Semantics and Politics of Social Kinds', *Hypatia*, 20, pp. 10–26.

10 March Gannett, L. 2010. 'Questions Asked and Unasked: How by Worrying Less about the "Really Real" Philosophers of Science Might Better Contribute to Debates about Genetics and Race', *Synthese*, 117, pp. 363–85.

# History and Theory Reading Group

## The Total Archive

Coinciding with the upcoming CRASSH conference 'The Total Archive', this term History and Theory will consider some attempts to theorise a recurrent theme in the history of the natural and human sciences: the dream of universal knowledge. Beginning with Derrida's definitive analysis of archival madness, the group will trace the ever-elusive vision of the total archive from psychoanalysis and cybernetics through to recent developments in the technologies of statecraft.

Meetings take place **every other Friday, 11am–12.30pm in Seminar Room 3**. Organised by Boris Jardine and Matthew Drage.

23 January Jacques Derrida, 'Archive Fever: A Freudian Impression', *Diacritics* 25/2 (1995), pp. 9–63

6 February Andrew Pickering, 'Beyond Design: Cybernetics, Biological Computers and Hylozoism', *Synthese* 168/3 (2009), pp. 469–491

N. Katherine Hayles, 'Liberal Subjectivity Imperilled: Norbert Weiner and Cybernetic Anxiety', Chapter 3 in *How We Became Posthuman: Virtual Bodies in Cybernetics, Literature, and Informatics* (University of Chicago Press, 1999), pp. 84–112

20 February Simon Schaffer, 'Afterword' to the Proceedings of the 2012 Dialoghi De San Giorgio, 'Re-Visioning the World: Myths of Universal Knowledge and the Aesthetics of Global Imaging' [please contact the organisers for a copy of this text]

Poovey, 'The Limits of the Universal Knowledge Project: British India and the East Indiamen', *Critical Inquiry* 31/1 (2004), pp. 183–202

6 March Foucault, 'American neo-liberalism', Chapters 9 & 10 in *The Birth of Biopolitics: Lectures at the College de France, 1978–1979* (Palgrave Macmillan, 2008) pp. 125–266

James C. Scott, 'Authoritarian High Modernism', Chapter 3 in *Seeing Like a State: How Certain Schemes to Improve the Human Condition Have Failed* (Yale University Press, 1999), pp. 87–102

## Twentieth Century Reading Group

The group discusses books and papers relating to the history and historiography of 20th-century science, technology and medicine, broadly construed.

This term we will explore the themes of film in science, technology and medicine to complement talks given at the Twentieth Century Think Tank, which meets on alternate Thursdays. Readings will be made available in advance in our Whipple Library box.

Meetings are held on **Thursdays, 1.00–2.00pm in Seminar Room 3.**

Organised by Jesse Olszynko-Gryn, Kathryn Schoefert and Susanne Schmidt.

29 January Introduced by **Susanne Schmidt**

Alison Winter, 'Film and the Construction of Memory in Psychoanalysis, 1940–1960', *Science in Context* 19 (March 2006): 111–136.

Michael Shortland, 'Screen Memories: Towards a History of Psychiatry and Psychoanalysis in the Movies', *British Journal for the History of Science* 20 (October 1987): 421–452.

12 February Introduced by **Josh Nall**

Alison Griffiths, "'A Moving Picture of the Heavens": Planetarium Space Shows as Useful Cinema', in *Useful Cinema*, edited by Charles R. Acland and Haidee Wasson (Durham, NC: Duke University Press, 2011): 230–259.

26 February Introduced by **Jesse Olszynko-Gryn**

Haidee Wasson, 'Electric Homes! Automatic Movies! Efficient Entertainment!: 16mm and Cinema's Domestication in the 1920s', *Cinema Journal* 48 (Summer 2009): 1–21; 'Suitcase Cinema', *Cinema Journal* 51 (Winter 2012): 148–52; 'Protocols of Portability', *Film History* 25 (Winter 2013): 236–247.

## Science and Literature Reading Group

This term we will read a pair of plays which in different ways address the role and responsibilities of the man of science. Both readings are available in the University Library, and copies will also be placed at the beginning of term in the Whipple Library box file.

We meet at **Darwin College on Monday evenings from 7.30–9pm.** All are very welcome to join us!

Organised by Melanie Keene (Homerton) and Adrian Kent (DAMTP). To join the mailing list, email Melanie; for further updates and information please see our blog: [www.sci-lit-reading-group.blogspot.com](http://www.sci-lit-reading-group.blogspot.com).

9 February (No 1 Newnham Terrace Upstairs Seminar Room)  
Maxim Gorky, 'Children of the Sun' (1905)

2 March (Newnham Grange Seminar Room)  
Stephen Poliakoff, 'Blinded by the Sun' (1996)

# Philosophy and History of Physics Reading Group

Organised by Daniel Mitchell, Hasok Chang and Jeremy Butterfield.

This year's meetings will have one common theme: measurement. We will investigate the development of physical measurements in recent centuries, paying attention to their epistemological significance, their institutional and social settings, and their relation to measurements in other sciences.

We will be discussing works in progress by various members of the group, as well as selected works by others. The year's activities will culminate in an international interdisciplinary conference on 'The Making of Measurement' held at CRASSH on 23–24 July 2015, organised by Daniel Mitchell, Eran Tal and Hasok Chang. The call for papers closes on 28 February 2015.

The group will meet weekly at the usual time of **2.00–3.00pm on Tuesdays in Seminar Room 3**. Readings for the first half of the term are confirmed, and the remainder will be determined in consultation with the wider group. Further information and reading materials will be distributed through the email list of the group; please contact Daniel Mitchell if you would like to be included on the list.

20 January N. R. Campbell on the Laws and Practices of Measurement. Extracts from *An Account of the Principles of Measurement and Calculation* (Longman, Green, 1928).

27 January Selected chapters from Percy Bridgman, *Dimensional Analysis* (Yale University Press, 1922).

3 February John Roche, 'Dimensional Analysis and the Quantity Calculus', ch. 10 of *The Mathematics of Measurement: A Critical History* (Athlone, 1998).

10 February Daniel Jon Mitchell: 'Measurement and Metrology post-Maxwell: A Historical, Philosophical, and Mathematical Primer', *draft*.

There will be further meetings on 17 February, 24 February, 3 March and 10 March.

# AD HOC

The Lent Term meetings of the Cambridge branch of AD HOC will double as this year's graduate seminar on the philosophy of chemistry. These four sessions will introduce key themes from current debates in this rapidly expanding field, with the help of readings that are cutting-edge research papers yet accessible to non-specialists. No readings will be repeated from previous years of the seminar.

We will meet fortnightly on **Mondays, 5.00–6.30pm in Seminar Room 1**. All welcome, especially PhD, MPhil and Part III students. For students and junior scholars who wish to travel to the meetings from outside Cambridge, small travel subsidies are available thanks to a grant from the Society for the History of Alchemy and Chemistry (SHAC). Similar subsidies are also available for those wishing to attend meetings of the London branch of the group.

Organised by Hasok Chang and Sophie Osiecki. To get on the email list for AD HOC, please send a note to [adhochistory@gmail.com](mailto:adhochistory@gmail.com).

26 January Philosophy of science in the image of chemistry

Alfred Nordmann, 'From Metaphysics to Metachemistry', in Davis Baird, Eric Scerri and Lee McIntyre, eds., *Philosophy of Chemistry: Synthesis of a New Discipline* (Springer, 2006), 347–362. [read closely]

Jaap van Brakel, 'Philosophy of Science and Philosophy of Chemistry', *HYLE — International Journal for Philosophy of Chemistry*, 20 (2014), 11–57. [online, open access] [read selectively]

9 February New conceptual tools for the philosophy of chemistry

Rom Harré, 'New Tools for Philosophy of Chemistry', *HYLE — International Journal for Philosophy of Chemistry*, 20 (2014), 77–91. [read closely]

Pierre Laszlo, 'Chemistry, Knowledge Through Actions?', *HYLE — International Journal for Philosophy of Chemistry*, 20 (2014), 93–116. [read closely]

23 February Chemistry and pluralism

Joachim Schummer, 'The Methodological Pluralism of Chemistry and Its Philosophical Implications', in Eric Scerri and Lee McIntyre, eds., *Philosophy of Chemistry: Growth of a New Discipline* (Dordrecht: Springer, 2015), 57–72. [read closely]

Gaston Bachelard, *La pluralisme cohérent de la chimie moderne* (Paris: Vrin, 1932; reprint 1973). [selections]

9 March Back to the metaphysics of chemistry

Robin Hendry, 'Three Metaphysical Issues in Chemistry', in Jean-Pierre Llored, ed., *The Philosophy of Chemistry: Practices, Methodologies, and Concepts* (Newcastle upon Tyne: Cambridge Scholars Publishing, 2013), 510–526. [read closely]

Mi Gyung Kim, 'Stabilizing Chemical Reality: The Analytic-Synthetic Ideal of Chemical Species', *HYLE — International Journal for Philosophy of Chemistry*, 20 (2014), 117–139. [read closely]

# Kant Reading Group

The topic of the Kant Reading Group this term is Kant's philosophy of biology. We'll discuss Kant's notion of the organism, the role and status of teleological principles in the study of nature, and the relationship of teleological considerations and mechanistic explanations. Readings will include passages from the *Critique of Judgment* and related sections from the *Critique of Pure Reason*. Interested students, researchers and faculty members are all welcome.

Meetings are on **Wednesdays, 11.00am–12.30pm in the Philosophy Board Room, Faculty of Philosophy, Sidgwick Site.**

Please contact Angela Breitenbach or Thomas Land for more information or if you would like to be added to the mailing list.

## **The Critique of Teleological Judgment (Second Part of the *Critique of Judgment*):**

- 21 January Analytic of Teleological Judgment, §§61–63 (V 359–369)
- 28 January Analytic of Teleological Judgment, §§64–68 (V 369–384)
- 4 February Dialectic of Teleological Judgment, §§69–73 (V 385–395)
- 11 February Dialectic of Teleological Judgment, §§74–76 (V 395–404)
- 18 February Dialectic of Teleological Judgment, §§75–78 (V 405–415)

## **The Transcendental Dialectic (Second Part of the *Critique of Pure Reason*):**

- 25 February Introduction to the Transcendental Dialectic (A293/B349–A309/B366)
- 4 March Appendix to the Transcendental Dialectic (A642/B670–A668/B696)
- 11 March Appendix to the Transcendental Dialectic (A669/B697–A704/B732)



# Philosophy of Psychology Reading Group

## Philosophy of Psychiatry, Classification and the DSM-5

We meet on **Thursdays, 11am–12noon in Seminar Room 1**. Organised by Riana Betzler.

- 15 January Chapter 4: The Medical Model and the Foundations of Psychiatric Explanation, in Murphy, D. (2006). *Psychiatry in the Scientific Image*. Cambridge: MIT Press.
- 22 January Chapter 10: Classification in Psychiatry, in Murphy, D. (2006). *Psychiatry in the Scientific Image*. Cambridge: MIT Press.
- 29 January Introduction & Chapter 1 in Cooper, R. (2014). *Diagnosing the Diagnostic and Statistical Manual of Mental Disorders*. London: Karnac Books.
- 5 February Chapters 2 & 3 in Cooper, R. (2014). *Diagnosing the Diagnostic and Statistical Manual of Mental Disorders*. London: Karnac Books.
- 12 February Chapters 4 & 5 in Cooper, R. (2014). *Diagnosing the Diagnostic and Statistical Manual of Mental Disorders*. London: Karnac Books.
- 19 February Chapters 6 & 7 in Cooper, R. (2014). *Diagnosing the Diagnostic and Statistical Manual of Mental Disorders*. London: Karnac Books.
- 26 February Volkmar, F. R. & Reichow, B. (2013). Autism in DSM-5: progress and challenges. *Molecular Autism*, 4(13).
- Grzadzinski, R., Huerta, M. & Lord, C. (2013). DSM-5 and autism spectrum disorders (ASDs): an opportunity for identifying ASD subtypes, *Molecular Autism*, 4(12).
- Buxbaum, J. D. & Baron-Cohen, S. (2013). DSM-5: The Debate Continues. *Molecular Autism*, 4(11).
- 5 March Hacking, I. (2009). Autistic Autobiography. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 364(1522), pp. 1467–73.
- McGeer, V. (2009). The Thought and Talk of Individuals with Autism: Reflections on Ian Hacking. *Metaphilosophy*, 40(3–4), pp. 517–530.

# Language groups

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## Latin Therapy

Latin Therapy is an informal reading group. All levels of Latin (including beginners) are very welcome. We meet on **Fridays, 4.00–5.30pm in Seminar Room 3**, to translate and discuss a text from the history of science, technology or medicine. If a primary source is giving you grief, we'd love to help you make sense of it over tea and biscuits! Thus we provide a free translation service for the Department, and a means for members to brush up their skills.

More information can be found at our website: [www.hps.cam.ac.uk/latintherapy](http://www.hps.cam.ac.uk/latintherapy). To be added to the mailing list, or to suggest a text, please contact Tillmann Taape or Natalie Lawrence.

## Greek Therapy

Greek Therapy meets **every Wednesday during term time in Seminar Room 3 from 5.30 to 7pm**.

We are an informal group for beginners and for experienced readers of Greek seeking to brush up their skills – all levels are welcome. Sessions usually involve a basic grammar session at the beginning followed by reading through a more advanced text. For more information or to be added to the mailing list, please email Liz Smith.

# Film series

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## Reproduction on Film: Outlaws

What do a human fly, alien pod people and talking apes from the future all have in common? They are just some of the transgressively reproductive heroes, antiheroes and villains – at the margins of society and outside the law – featured in the fourth series of ‘Reproduction on film’, devised by Jesse Olszynko-Gryn and the Generation to Reproduction programme with funding from the Wellcome Trust.

**Wednesdays 4 February – 11 March 2015, at the Umney Theatre, Robinson College, and St Philip’s Church Centre, Mill Road. All screenings at 7pm, venue alternates weekly.**

4 February St Philip’s Church

*Escape from the Planet of the Apes (1973)*

Introduced and with discussion led by **Amy Chambers (University of Manchester)**

11 February Robinson College

*Invasion of the Body Snatchers (1956)*

Introduced and with discussion led by **David Kirby (University of Manchester)**

18 February St Philip’s Church

*Bed and Sofa (1927)*

Introduced and with discussion led by **Anna Toropova (Slavonic Studies, Cambridge)**

25 February Robinson College

*The Fly (1986)*

Introduced and with discussion led by **Sarah Dillon (English, Cambridge)**

4 March St Philip’s Church

*Sparrows Can’t Sing (1963)*

Introduced and with discussion led by **Lucy Bland (Anglia Ruskin University)**

11 March Robinson College

**Silent Cinema and the Comedy of Birth: An Evening of Shorts (1896–1935)**

Introduced and with discussion led by **Patrick Ellis (University of California, Berkeley)**