



Physical Sciences Year 12 Study Day

23rd March 2022

Welcome to Univ! We're so pleased you've joined us for this day. Please see below the schedule for the Physical Science Study Day. We very much hope you enjoy your day at Univ!

- 10-10.20am:** Arrivals; check in; refreshments
- 10.30-10.40am:** Welcome and introductions
- 10.40-11.30am:** **Subject Lecture 1 (Earth Sciences)**
'What has the periodic table got to do with plankton and the carbon cycle?', Professor Ros Rickaby
- 11.30am-12.20 pm:** **Subject Lecture 2 (Physics)**
'Using simple physics to detect extrasolar planets', Professor Caroline Terquem
- 12.25-1:50pm:** Lunch and tours of College with current undergraduate students
- 1:40pm – 2:30 pm:** **Subject Lecture 3 (Chemistry)**
'Understanding chemistry in a quantum world', Dr Martin Galpin
- 2.30pm-3.30pm** **Breakout discussion session** in either Chemistry, Earth Sciences or Physics
- **Physics: 'Learning to live with ignorance: the art of modelling in physics'**, Professor Michael Barnes
 - **Earth Sciences: 'How did Jupiter influence the formation of the Earth?'**, Dr James Bryson
 - **Chemistry: 'Why is oxygen attracted to a magnet? An introduction to molecular orbitals'**, Dr Martin Galpin
- A sign up form for these sessions will be sent out prior to the event. We will endeavor to give all students their first or second choice break-out session.*
- 3.30-4.00pm:** Short break
- 4:00-4.45pm:** Oxford Admissions and Q&A

4.45-5pm:

Departures (Exit out back through the garden out onto Logic Lane, back through the college and out the main entrance that you entered by.) Please return the plastic holder of your name badge so we can reuse them!

This is a provisional programme. The lecture titles and order of the sessions may be subject to change.



Suggested Reading

Here are some suggestions of where you could go to explore English and History further. Some are general, and others specifically related to the lectures and breakout sessions today. These are **not** meant to be treated as tick lists, but rather ideas which you can use as starting points for you to explore for yourself.

Also check out www.univ.ox.ac.uk/staircase12 for further suggestions and ideas for other subjects.



History

Books

- N. MacGregor, *History of the world in one hundred objects* (Penguin, 2010; paperback 2011)
- D. Abulafia, *The Great Sea: a Human History of the Mediterranean* (Penguin, 2011)
- N. Malcolm, *Agents of empire : knights, corsairs, Jesuits and spies in the sixteenth-century Mediterranean world* (Penguin, 2015)
- G. Parker, *Global crisis : war, climate change and catastrophe in the seventeenth century* (Yale, New Haven: 2013)
- E. de Waal, *The Hare with Amber Eyes* (Chatto and Windus, 2010)
- Angus Calder, *The People's War: Britain 1939-45* (Pimlico, various editions, most recently 1992)
- James Hinton, *Nine Wartime Lives* (Oxford University Press, 2011)

Podcasts and radio:

- From the BBC History magazine, HistoryExtra website: global history in the ancient world: <http://www.historyextra.com/podcast/global-view-history-Michael-Scott-China-Greece-India-Rome>
- And from the same site global approaches to the First World War: <http://www.historyextra.com/podcast/first-world-war/global-first-world-war>
- In Our Time (Radio 4) - <http://www.bbc.co.uk/programmes/b006qykl>
Runs most Thursday mornings but the website has a huge archive of past programmes. Three academics discuss a topic, book, concept, influential figure etc. for 45 minutes.

English

Essays

Francis Bacon, *Essays*, ed. John Pitcher

Brian Dillon, *Essaysism: On Form, Feeling and Nonfiction* (2017)

T.S. Eliot, *Selected Essays* (Faber edition, 1999)

Deborah Levy, *Things I Don't Want to Know* (2013) [a response to Orwell]

Janet Malcolm, *Forty One False Starts* (2013)

Michel de Montaigne, *Essays*; try the Penguin translation by M.A. Screech, or, *Shakespeare's Montaigne*, ed. Stephen Greenblatt and Peter Platt (2014)

George Orwell, *Why I Write* (1946)

Adam Phillips, *One Way and Another* (2016), *In Writing* (2017)

Zadie Smith, *Changing My Mind: Occasional Essays* (2009); *Feel Free: Essays* (2018)

Two useful anthologies are *The Great Age of the English Essay*, ed. Denise Gigante, and *The Oxford Book of Essays*, ed. John Gross.

General reading and criticism

The Cambridge History of English Poetry, ed. Michael O'Neill (paperback 2015). Survey of major writers.

Andrew Bennett and Nicholas Royle, *An Introduction to Literature, Criticism and Theory* 4 ed (2009). A lively and accessible introduction to literary theory.

Deborah Cameron, *The Myth of Mars and Venus: Do Men and Women Really Speak Different Languages?* (2007)

Connell publish a series of very good and very affordable guides to famous literary texts: <http://www.connellguides.com/>.

David Lodge, *The Art of Fiction* (1992)

John Lennard, *The Poetry Handbook* (1996)

Christopher Ricks, *The Force of Poetry* (1984)

James Wood, *How Fiction Works* (2008)

The Oxford 'Very Short Introductions' series includes many readable and user-friendly accounts of literary topics, ranging from the very specific to the very general.

Literary magazines

The *London Review of Books*, *Times Literary Supplement* and *Los Angeles Review of Books* are worth browsing for rigorous review essays, and publish a good deal of material online.

- Many contemporary poetry journals publish selected essays and reviews from each issue online, including:
 - Poetry Foundation - www.poetryfoundation.org/poetrymagazine
 - Poetry London - <http://poetrylondon.co.uk/category/essays/>
 - PN Review - <https://www.pnreview.co.uk/index.shtml>
- The online poetry journal *Prac Crit* features close readings of single poems and interviews with poets about their craft. <http://www.praccrit.com/>
- The *White Review* publish essays and features on poetry and prose, among other things. www.thewhitereview.org/feature/

Podcasts, radio and video

<http://writersinspire.org/> - This collection of freely available literary resources – mostly recorded lectures from Oxford professors arranged by author or theme.

In Our Time (Radio 4) - <http://www.bbc.co.uk/programmes/b006qykl> 3 academics discuss a topic, book, concept, influential figure etc. for 45 minutes. Website has a huge archive of past episodes.

Other resources

Oxford Words blog: <http://blog.oxforddictionaries.com/>

British Library manuscripts blog:

<http://britishlibrary.typepad.co.uk/digitisedmanuscripts/index.html>