

M. PHILS. (one-year courses), DIPLOMAS AND SPECIAL COURSES

MICHAELMAS 2006

LENT 2007

EASTER 2007

CHEMISTRY*Advanced courses (mainly for Research Students and others interested)*

STAFF OF THE CHEMICAL LABORATORY

Research Techniques in Organic Chemistry W. 9
 Graduate Course in Synthetic Organic Chemistry Tu.
 Th. 11.
 A short course on workshop practice is also offered to
 new Physical Chemistry graduate students early in
 the Michaelmas Term.

EARTH SCIENCES**M. PHIL. IN FLUID FLOW IN INDUSTRY AND THE ENVIRONMENT**

Course Website: <http://www.esc.cam.ac.uk/>
<http://camtools.caret.cam.ac.uk/>

QUANTITATIVE MODELLING

Industrial Processes in the Natural Resource Sector to be held at the B.P. Institute

PROF. A. WOODS

Modelling Industrial and Environmental Flows. Tu. Th.
 9–11 *Seminar Room*

DR S. FITZGERALD AND OTHERS

Essential Business Skills for Scientists and Engineers.
 Lectures. Th. F. 11 *Lecture Room*
 Seminars. Th. 4.30 *Lecture Room*

The same continued.

The same continued.

REGULAR SEMINARS

PROF. E. SALJE AND OTHERS

Topics in Geological Sciences. Tu. 5 *Harker Room*

PROF. D. P. MCKENZIE AND OTHERS

Colloquium in Geophysics. W. 4.30 *Bullard Laboratories*

PROF. H. E. HUPPERT AND OTHERS

Seminars in Theoretical Geophysics. Th. 2 *DAMTP
 Room A*

PROF. H. ELDERFIELD AND OTHERS

Quaternary Discussion Group. alternate. F. 8.30 p.m.
Clare Hall

The same continued.

The same continued.

The same continued. *Earth Sciences, Harker II
 Room*

The same continued.

The same continued.

OTHER COURSES

PROF. D. P. MCKENZIE, DR K. PRIESTLEY AND DR A. DEUSS

Physics of the Earth as a Planet. M. W. F. 10 *Cavendish
 Laboratory*

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HISTORY AND PHILOSOPHY OF SCIENCECourse Website: <http://www.hps.cam.ac.uk/students/Fpage.html>*Seminars and Reading Groups for Research Students in History and Philosophy of Science*

Dr Robson and Prof. Kusch will meet all postgraduate students at 10 a.m. on Tuesday 3 October in Seminar Room 2 to discuss the course and arrange supervision.

Unless otherwise stated, all meetings will be held in the *History and Philosophy of Science Seminar Rooms, Free School Lane.*

Seminar Programmes can be obtained at the start of each term from the Departmental Office or from the website www.hps.cam.ac.uk/seminars

Research Methods and Resources Seminar. Th. 4 (5 and 12 Oct.) For all MPhil and PhD students.	The same continued.	The same continued.
History and Philosophy of Science Seminar. Th. 4 (from 19 Oct.)	The same continued.	The same continued.
MPhil Seminar in History, Philosophy and Sociology of Science, Technology and Medicine. W. 3	The same continued.	The same continued.
Criticism and Culture. W. 5 (fortnightly from week 1)	The same continued.	The same continued.
Psy Studies. W. 5 (fortnightly from week 2)	The same continued.	The same continued.
History of Medicine Seminar. Tu. 5	The same continued.	The same continued.
Cabinet of Natural History. M. 1	The same continued.	The same continued.
Philosophy Workshop. W. 1 (fortnightly)	The same continued.	The same continued.
History of Science Workshop. W. 1 (fortnightly)	The same continued.	The same continued.
Epistemology Reading Group. Th. 2	The same continued.	The same continued.
Wittgenstein Reading Group. Tu. 3 (fortnightly)	The same continued.	The same continued.
Scepticism Reading Group. Tu. 3 (fortnightly)	The same continued.	The same continued.
Kant Reading Group. Tu. 1	The same continued.	The same continued.
Science and Literature Reading Group. M. 7.30 (fortnightly) [Darwin]	The same continued.	The same continued.
STS workshop. Th. 12	The same continued.	The same continued.
German Therapy. F. 1	The same continued.	The same continued.
Greek Therapy. F. 2.30	The same continued.	The same continued.
Latin Therapy Group. F. 4	The same continued.	The same continued.

M. PHIL. IN MATERIALS MODELLINGCourse Organiser: Dr P. D. Bristowe. (email: pdb1000@cus.cam.ac.uk)Course Website: www.msm.cam.ac.uk/teaching/MPhil/

Lectures will be delivered in the *Department of Materials Science and Metallurgy*

MP1. Introduction to Materials Science and General Methodology. (Twelve lectures)	MP4. Thermodynamics and Phase Diagrams. (Ten lectures)
MP2. Ab Initio Methods and Approximations. (Twelve lectures)	MP5. Mesoscale and Multiscale Modelling. (Six lectures)
MP3. Monte Carlo and Molecular Dynamics Methods. (Twelve lectures)	MP6. Kinetics and Microstructure Modelling. (Fourteen lectures)
MP8. Business Skills (BP Institute). (Sixteen lectures)	MP7. Process and Finite Element Modelling. (Eight lectures)
NE.05. Nanomaterials. (Sixteen lectures)	MP9. Information Theory. (Four lectures)
	MP11. Integrated Selection of Materials and Processes. (Four lectures)

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M. PHIL. IN MICRO- AND NANOTECHNOLOGY ENTERPRISE

Course Director: Prof. M. G. Blamire, (e-mail: mb52@cam.ac.uk)

Course Website: www.msm.cam.ac.uk/nanoenterprise

Lectures will be delivered in the *Department of Materials Science and Metallurgy* and **Department of Engineering*

DR A. ILIE, DR P. A. MIDGLEY

NE.01 Characterisation Techniques (Sixteen lectures)

DR A. A. SESHIA

***NE.02** MEMS Design (Sixteen lectures)

DR A. FLEWITT

***NE.03** Materials and Processes for MEMS (Sixteen lectures)

PROF. M. G. BLAMIRE, DR J. DURRELL

NE.04 Nanofabrication Techniques (Sixteen lectures)

PROF. A. L. GREER, PROF. A. H. WINDLE, DR L. SCHMIDT-MENDE

NE.05 Nanomaterials (Sixteen lectures)

DR W. T. S. HUCK AND DR S. CLARK

NE.06 Nanochemistry (Sixteen lectures)

DR C. DURKAN, DR D. G. HASKO

NE.07 Physical Properties at the Nanometre-scale (Sixteen lectures)

DR P. D. BARKER

NE.08 Bionanotechnology (Sixteen lectures)**Additional lecture courses**

MR W. BAINS

T4BBE Building and Financing a new Enterprise (Thirty-two lectures) to be arranged by the Institute of Biotechnology

VARIOUS LECTURERS

MoTI Management of Technology and Innovation (Forty-eight lectures) to be arranged by the Judge Institute of Management

DR R. DOUBLEDAY AND PROF. M. WELLAND

Societal and Ethical Dimensions of Nano and Biotechnology (Eight lectures)

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DEPARTMENT OF PHYSICS

Lectures take place in the *Sackler Lecture Theatre, Institute of Astronomy*, and in the *Ryle Seminar Room, Rutherford Building, Cavendish Laboratory*.

A detailed timetable will be announced at the first lecture of each term

Cavendish Astrophysics Group and the Institute of Astronomy

DR D. F. BUSCHER, DR P. C. V. HEWETT AND OTHERS
See <http://www.mrao.cam.ac.uk/lectures.html> for a detailed timetable.

The same continued.

The same continued.

Regular Seminars
Principal Seminars

Cavendish Physical Society. W. 4.15 (Four seminars, 11, 25 Oct., 8, 22 Nov.)
Mott Colloquium. W. 4.15 (Four seminars, 18 Oct., 1, 15, 30 Nov.)

The same continued. (Four seminars, 24 Jan., 7, 21 Feb., 7 Mar.)

The same continued. (Two seminars, 2, 16 May)

The same continued. (Four seminars, 31 Jan., 14, 28 Feb., 14 Mar.)

The same continued. (Two seminars, 9, 23 May)

Research Group Seminars

PROF. Y. LIANG AND OTHERS

Quantum Matter. W. 11.15

PROF. A. N. LASENBY AND OTHERS

Astrophysics. Tu. 4.30

PROF. J. CARTER AND OTHERS

High Energy Physics. Tu. 3

PROF. M. PEPPER AND OTHERS

Semiconductor Physics. M. 2.15

DR J. ELLIS AND OTHERS

PCS (Materials). Th. 4.30

PROF. A. M. DONALD AND OTHERS

Biological and Soft Systems. F. 2.15

PROF. R. H. FRIEND AND OTHERS

Optoelectronics. Tu. 2.15

PROF. M. C. PAYNE AND OTHERS

Theory of Condensed Matter. Th. 2.15

PROF. H. SIRRINGHAUS AND OTHERS

Microelectronics. F. 11

The same continued.

Courses recommended for Research Students in Solid State Physics

Lectures are given either in the *TCM Seminar Room (TCM)*, *Mott Building* or the *Mott Seminar Room (M)*, *Mott Building*, unless otherwise stated

STAFF OF THE MOTT BUILDING

Solid State Physics. M. W. F. 9 (*M*)

The same continued. (*M*)

PROF. A. M. DONALD AND OTHERS

Principles of Electron Microscopy and Diffraction.

Tu. Th. 12 (*M*) (additional practicals at times to be arranged)

The same continued. (*M*)

PROF. D. E. KHMELNITSKII AND OTHERS

Fairy Tales in Physics. F. 10.30 (*TCM*)

The same continued. (*TCM*)

DR P. D. HAYNES

Solid State Theory. M. 10 (*TCM*)

PROF. D. E. KHMELNITSKII

Physical Kinetics (Twelve lectures). Tu. Th. 10 (*TCM*)

DR J. KEELING

Light Matter Interaction and Quantum Optics. (Six lectures) M. W. 10 (*TCM*)

DR T. DUKE

Biophysics. (Two lectures) M. 10 (*TCM*)

DR J. ADAMS

Non-equilibrium Physics. (Four lectures) M. W. 10 (*TCM*)

PROF. D. E. KHMELNITSKII

Many-body Physics in Low Dimensions. (Twelve lectures) Tu. Th. 10 (*TCM*)

Courses recommended for Research Students in Astrophysics

See Graduate lectures in Astronomy and Astrophysics (p. 217)

Courses recommended for Research Students in High Energy Physics

PROF. J. CARTER AND OTHERS

Selected Topics in Elementary Particle Physics. Tu. Th. 9.30 *HEP Seminar Room*

The same continued.

The same continued.