

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

MICHAELMAS 2007

LENT 2008

EASTER 2008

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

STAFF OF THE CHEMICAL LABORATORY
 Research Techniques in Organic Chemistry. W. 9
 STAFF OF IRC IN SUPERCONDUCTIVITY
 Classical and High Temperature Superconductivity. Th.
 11 (Eight lectures) *IRC Seminar Room*
 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**Website: <http://www.cam.ac.uk/cambuniv/guide/pgcourses/mphil/ff.html>**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 AND DR K. PRIESTLEY
 Physics of the Earth as a Planet. M. W. F. 10 *Cavendish*
Laboratory

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HISTORY AND PHILOSOPHY OF SCIENCE*Seminars and Reading Groups for Research Students in History and Philosophy of Science*

Dr Robson and Prof. Jardine will meet all postgraduate students at 2pm on Wednesday 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 (4 and 11 Oct.) For all MPhil and PhD students.	The same continued.	The same continued.
History and Philosophy of Science Seminar. Th. 4 (from 18 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.
Psy Studies. W. 5 (fortnightly)	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. F. 2	The same continued.	The same continued.
Scepticism Reading Group. Tu. 3	The same continued.	The same continued.
Kant Reading Group. Tu. 1	The same continued.	The same continued.
History and Theory Reading Group. F. 1	The same continued.	The same continued.
Science and Literature Reading Group. M. 7.30 (fortnightly) [Darwin College]	The same continued.	The same continued.
Medieval Philosophy Reading Group. W. 1 [CRASSH]	The same continued.	The same continued.
STS workshop, Th. 12 (fortnightly)	The same continued.	The same continued.
German Therapy Group. Tu. 11.30	The same continued.	The same continued.
Greek Therapy Group. W. 5	The same continued.	The same continued.
Latin Therapy Group. F. 4	The same continued.	The same continued.

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M.PHIL. IN MICRO- AND NANOTECHNOLOGY ENTERPRISE

Course Director: Prof. M. G. Blamire (email: mb52@cam.ac.uk)

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

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

DR P. A. MIDGLEY, DR R. A. OLIVER
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, TBC
NE.05 Nanomaterials (Sixteen lectures)
 †DR W. T. S. HUCK, DR S. CLARK, DR P. B. DAVIES
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

VARIOUS LECTURERS

Scientific Communication

(Twenty-four lectures) to be confirmed

VARIOUS LECTURERS

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

DR R. DOUBLEDAY

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

MATERIALS SCIENCE AND METALLURGY*Courses for Graduates*

Course Organiser: Dr R. E. M. Ward (email: remw2@cam.ac.uk)

Lectures will be given in the *Department of Materials Science and Metallurgy*, unless otherwise stated

A detailed timetable is available in the Department. Further information on the Research School is at <http://www.msm.cam.ac.uk/Department/Internal/graduate/index.html>

STAFF OF THE DEPARTMENT

Techniques of Materials Research. M. Tu. W. Th. F.
 (Twenty lectures)
 DR R. A. OLIVER, DR J. LOUDON
 Characterisation Techniques (Sixteen lectures)
 DR J. S. BARNARD
 Scanning Electron Microscopy. (Eight lectures)
 DR R. E. CAMERON AND MISS M. E. VICKERS
 X-Ray and Neutron Diffraction Methods. (Six lectures)

DR P. A. MIDGLEY AND OTHERS
 Advanced Transmission Electron Microscopy.
 (Seven lectures)
 DR J. S. BARNARD
 Microanalysis. (Eight lectures)
 DR S. M. BEST
 Introduction to Biomaterials. (Four lectures)
 DR R. V. KUMAR, DR C. SCHWANOT
 Materials Chemistry. (Six lectures)
 DR W. O. SAXTON
 Image Processing in Materials Science. (Four lectures)
 DR J. H. DURRELL
 Microfabrication. (Six lectures)

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**ASTRONOMY AND ASTROPHYSICS
DEPARTMENT OF PHYSICS**

Lectures take place on M. Tu. W. F. 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
TO BE ANNOUNCED

TO BE ANNOUNCED

Regular Seminars

Principal Seminars

Cavendish Physical Society. W. 4.15 (Four seminars, 10, 24 Oct., 7, 21 Nov.)

The same continued. (Four seminars, 23 Jan., 6, 20 Feb., 5 Mar.)

The same continued. (Two seminars, 30 Apr., 14 May)

Research Group Seminars

PROF. G. G. LONZARICH AND OTHERS

Quantum Matter. W. 11.15

The same continued.

The same continued.

PROF. A. N. LASENBY AND OTHERS

Astrophysics. Tu. 4.30

The same continued.

The same continued.

PROF. J. R. CARTER AND OTHERS

High Energy Physics. Tu. 3

The same continued.

The same continued.

PROF. M. PEPPER AND OTHERS

Semiconductor Physics. M. 2.15

The same continued.

The same continued.

DR W. G. PROUD AND OTHERS

PCS (Materials). Th. 4:30

The same continued.

The same continued.

PROF. A. M. DONALD AND OTHERS

Biological and Soft Systems. F. 2.15

The same continued.

The same continued.

PROF. SIR RICHARD FRIEND AND OTHERS

Optoelectronics. Tu. 2.15

The same continued.

The same continued.

PROF. M. C. PAYNE AND OTHERS

Theory of Condensed Matter. Th. 2.15

The same continued.

The same continued.

PROF. H. SIRRINGHAUS AND OTHERS

Microelectronics. F. 11

The same continued.

The same continued.

PROF. R. T. PHILLIPS AND OTHERS

Atomic, Mesoscopic and Optical Physics. M. 3.30

The same continued.

The same continued.

Courses recommended for Research Students in Solid State Physics

Lectures are given in the *TCM Seminar Room, 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.

DR J. KEELING

Light-matter Interaction and Quantum Optics.
(Eight lectures) M. W. 10 (*TCM*)

DR J. M. ADAMS

Non-equilibrium Thermodynamics. (Six
lectures) M. W. 10 (*TCM*)

DR G. MOELLER

Quantum Hall Effect. (Four lectures) Tu. Th. 10
(*TCM*)

DR S. AHNERT

Complex networks. (Four lectures) Tu. Th. 10
(*TCM*)

Courses recommended for Research Students in Astrophysics

See Graduate lectures in Astronomy and Astrophysics (p. 216)

Courses recommended for Research Students in High Energy Physics

PROF. J. R. CARTER AND OTHERS
Selected Topics in Elementary Particle Physics. Tu. Th.
9:30 *HEP Seminar Room*

The same continued.

Courses recommended for Research Students in Biological and Soft Systems Physics

DR J. GUCK AND PROF. A. MARTINEZ-ARIAS
The physics of living matter Tu. 2 *ITC Meeting
Room*

continued >