

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

MICHAELMAS 2010

LENT 2011

EASTER 2011

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****REGULAR SEMINARS**

PROF. J. A. JACKSON AND OTHERS

Topics in Geological Sciences. Tu. 4.30 *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. D. HODELL, DR L. SKINNER AND OTHERS

Quaternary Discussion Group. alternate F. 5 p.m. *Clare
College, Thirkill/Latimer Rooms*

PROF. A. WOODS

Research Seminar Series. Th. 11.30 *BP Institute Seminar
Area*

The same continued.

The same continued.

The same continued.

The same continued.

The same continued.

The same continued.

The same continued.

OTHER COURSES

PROF. D. MCKENZIE, PROF. 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 SCIENCE*Seminars and Reading Groups for Research Students in History and Philosophy of Science*

Dr Lewens and Dr Robson will meet all new graduate students at 2pm on Wednesday 6 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 (weeks 1 and 2). For all Part III, MPhil and PhD students.	The same continued.	The same continued.
History and Philosophy of Science Seminar. Th. 4.30 (weeks 3–8)	The same continued.	The same continued.
MPhil/Part III Seminar in History, Philosophy and Sociology of Science, Technology and Medicine. W. 3	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.
HPS History Workshop. W. 1 (fortnightly)	The same continued.	The same continued.
Kant Reading Group. Th. 2	The same continued.	The same continued.
History and Theory Reading Group. F. 2.30 (fortnightly)	The same continued.	The same continued.
Metaphysics of Science Reading Group. M. 1	The same continued.	The same continued.
Twentieth Century Think Tank. Tu. 1 (fortnightly)	The same continued.	The same continued.
Latin Therapy Group. F. 4	The same continued.	The same continued.
Science and Literature Reading Group. M. 7.30 (fortnightly) [Darwin College]	The same continued.	The same continued.

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M.PHIL. IN MICRO- AND NANOTECHNOLOGY ENTERPRISE

Course Directors: Dr Cate Ducati and Dr Rachel Oliver (cd251@cam.ac.uk and rao28@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*,
 †*Department of Chemistry and §Nanoscience Centre*

DR J. LOUDON, DR R. A. OLIVER, MS M. VICKERS
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)
 DR A. AZIZ, DR S. HARRINGTON
NE.04 Nanofabrication Techniques (Sixteen lectures)
 PROF. J. L. DRISCOLL, DR K. KOZIOL
NE.05 Nanomaterials (Sixteen lectures)
 †DR J. NITSCHKE
NE.06 Nanochemistry (Sixteen lectures)
 DR C. FORD, PROF. M. G. BLAMIRE
NE.07 Physical Properties at the Nanometre-scale (Sixteen lectures)

DR P. D. BARKER
NE.08 Bionanotechnology (Sixteen lectures)
 DR R. OLIVER, DR M. MORAM
NE.09 Semiconductor nanostructures for devices (Sixteen lectures)
 DR C. SCHWANDT
NE.10 Nanoelectrochemistry (Sixteen lectures)
 PROF. J. BAUMBERG
NE.11 Nano Self Assembly (NDTC1) (Sixteen lectures)

Additional lecture courses

VARIOUS LECTURERS
 Science Communication in Business, Media and Research (Twenty-four lectures)-
 VARIOUS LECTURERS
MoTI Management of Technology and Innovation (Forty-eight lectures) to be arranged by the Judge Institute of Management
 PROF. M. WELLAND§
Societal and Ethical Dimensions of Nano and Biotechnology (Six 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.
 (Seven lectures)
 DR R. A. OLIVER, DR J. LOUDON
 Characterisation Techniques (Twelve 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)

TO BE CONFIRMED
 Advanced Transmission Electron Microscopy.
 (Seven lectures)
 DR J. S. BARNARD
 Microanalysis. (Eight lectures)
 DR S. M. BEST
 Introduction to Biomaterials. (Four lectures)
 DR C. SCHWANDT
 Materials Chemistry. (Six lectures)
 DR W. O. SAXTON
 Image Processing in Materials Science. (Four lectures)
 DR A. AZIZ, DR S. A. HARRINGTON
 Nanofabrication Techniques. (Six lectures)

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**ASTRONOMY AND ASTROPHYSICS
DEPARTMENT OF PHYSICS***Lectures take place in the Ryle Seminar Room, Rutherford Building, Cavendish Laboratory.**Regular Seminars***Principal Seminars**

Cavendish Physical Society. W. 4.15 (Four seminars, 13, 27 Oct., 10, 24 Nov.)

The same continued. (Four seminars, 26 Jan., 9, 23 Feb., 9 Mar.)

The same continued. (Two seminars, 4, 18 May)

Research Group SeminarsPROF. G. G. LONZARICH AND OTHERS
Quantum Matter. W. 11.15

The same continued.

The same continued.

PROF. P. ALEXANDER AND OTHERS
Astrophysics. Tu. 4.30

The same continued.

The same continued.

PROF. M. A. PARKER AND OTHERS
High Energy Physics. Tu. 3

The same continued.

The same continued.

PROF. D. A. RITCHIE AND OTHERS
Semiconductor Physics. M. 2.15

The same continued.

The same continued.

DR D. M. WILLIAMSON AND OTHERS
SMF. 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. R. H. 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.

PROF. V HEINE
Understanding Electrons in Solids. (Eight lectures) M. 10 (TCM)DR S. AHNERT AND OTHERS
Complex Networks. (Four lectures) M. W. 10 (TCM)PROF. D. E. KHMELNITSKII AND OTHERS
Theory of Solids. (Sixteen lectures) Tu. Th. 10 (TCM)DR G. MOELLER
Theory of Superconductivity. (Eight lectures) M. W. 10 (TCM)PROF. D. E. KHMELNITSKII AND OTHERS
Research in TCM W. 10 (TCM)

PROF. D. E. KHMELNITSKII AND OTHERS

PROF. D. E. KHMELNITSKII AND OTHERS
Fairy Tales on Fridays. (Six lectures) F. 10.30 (TCM)

Fairy Tales on Fridays. (Six lectures) F. 10.30 (TCM)

*Courses recommended for Research Students in Astrophysics**Lectures take place in the Institute of Astronomy, and Rutherford Building, Cavendish Laboratory.*CAVENDISH ASTROPHYSICS GROUP AND THE INSTITUTE OF
ASTRONOMYSee <http://www.ast.cam.ac.uk/teaching/postgrad/current/lectures.php> for a detailed timetable.

The same continued.

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Courses recommended for Research Students in High Energy Physics

DR C. G. LESTER AND OTHERS

Selected Topics in Elementary Particle Physics. Tu. 2
HEP Library – Room 954

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**Courses organised by the Centre for Scientific Computing*Lectures take place in the *Cavendish Laboratory*.See <http://www.csc.cam.ac.uk/academic/mphil> for lecture theatre locations.

DR N. NIKIFORAKIS

Numerical solution of Partial Differential Equations.
(Part 1) M. W. F. 2-4 (beginning 11 Oct.)

DR N. NIKIFORAKIS

Numerical solution of Partial Differential Equations.
(Part 2) M. W. F. 2-4 (beginning 18 Oct.)

DR D. E. A. VAN ODYCK

Solution of Linear Systems, Initial Value and Boundary
Value Problems. Tu. Th. 2 (beginning 12 Oct.)

DR K. R. BATES

Mesh Generation and Mesh Adaptation for Partial
Differential Equations. Tu. Th. 3 (beginning 12
Oct.)

N. MACLAREN

Software Design M. W. F. 2 (beginning 2 Nov.)

DR P. M. BLAKELY

Scientific Programming with GPUs Tu. Th. 2 (beginning
2 Nov.)

N. MACLAREN

Message Passing Interface M. W. F. 2 (beginning 10 Nov.)

PROF. E. ARTACHO

Electronic Structure (Theory of Condensed Matter)
(*venue to be confirmed*)

PROF. E. ARTACHO

Foundation Course in QM and solid state physics (*venue
to be confirmed*)

PROF. M. BRATHWAITE

Detonation Modelling (*venue to be confirmed*)

PROF. J. E. FIELD

Ignition and Propagation or Reaction in Explosives
(*venue to be confirmed*)

PROF. J. E. FIELD

Materials and Modelling (*venue to be confirmed*)