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

MICHAELMAS 2008	LENT 2009	EASTER 2009

CHEMISTRY

Advanced courses (mainly for Research Students and others interested)

STAFF OF THE CHEMCIAL 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. 5 *Harker Room*	The same continued.	The same continued.
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*	The same continued.	
PROF. H. ELDERFIELD AND OTHERS Quaternary Discussion Group. alternate F. 8.30 p.m. *Clare Hall*	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*		
PROF. A. WOODS AND OTHERS Topics in Fluid Flow. Th. 11.30 *Seminar Room BPI*	The same continued.	The same continued.

continued >

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

MICHAELMAS 2008	LENT 2009	EASTER 2009

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 8 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 (9 and 16 Oct.) For all MPhil and PhD students.		
History and Philosophy of Science Seminar. Th. 4 (from 23 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.	
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.
Kant Reading Group. Tu. 1	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.
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.
Latin Therapy Group. F. 4	The same continued.	The same continued.

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

MICHAELMAS 2008 **LENT 2009** **EASTER 2009**

M.PHIL. IN MICRO- AND NANOTECHNOLOGY ENTERPRISE

Course Director: Dr R. Vasant Kumar (email: rvk10@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 P. A. MIDGLEY, DR R. A. OLIVER, MS M. VICKERS
NE.01 Characterisation Techniques (Sixteen lectures)
DR A. A. SESHIA
***NE.02** MEMS Design (Sixteen lectures)
PROF. A. CHEETHAM
M9 Functional Inorganic Oxides (Twelve lectures)
DR J. DURRELL
NE.04 Nanofabrication Techniques (Sixteen lectures)
PROF. A. L. GREER, PROF. A. H. WINDLE, DR N. PLANK
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
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. (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)
PROF. C. J. HUMPHREYS
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. SCHWANDT
Materials Chemistry. (Six lectures)
DR W. O. SAXTON
Image Processing in Materials Science.(Four lectures)
DR J. H. DURRELL
Microfabrication. (Six lectures)

continued >

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

MICHAELMAS 2008	LENT 2009	EASTER 2009

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

Regular Seminars

Principal Seminars		
Cavendish Physical Society. W. 4.15 (Four seminars, 15, 29 Oct., 12, 26 Nov.)	The same continued. (Four seminars, 21 Jan., 4, 18 Feb., 4 Mar.)	The same continued. (Two seminars, 29 Apr., 13 May)
Research Group Seminars		
PROF. G. G. LONZARICH AND OTHERS Quantum Matter. W. 11.15	The same continued.	The same continued.
DR 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. 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. H. SIRRINGHAUS 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 N. DRUMMOND Electronics Structure of Solids. (Eight lectures) M. W. 10 *(TCM)*	DR M. J. BHASEEN Introduction to Physics at Low Dimensions. (Six lectures) M. W. 10 *(TCM)*	
PROF. D. E. KHMELNITSKII AND OTHERS Physical Kinetics. (Twelve lectures) T. Th. 10 *(TCM)*	DR G. MOELLER Topologically Protected Quantum Computation. (Four lectures) M. W. 10 *(TCM)*	
DR J. R. KEELING Theory of Magnetism. (Six lectures) M. W. 10 *(TCM)*	PROF. D. E. KHMELNITSKII AND OTHERS Research in TCM. Tu. Th. 10 *(TCM)*	
PROF. D. E. KHMELNITSKII Fairy Tales. (Six lectures) F. 10.30 *(TCM)*	DR C. LOBO Introduction into Physics of Cold Atoms. (Six lectures) Tu. Th. 10 *(TCM)*	
	PROF. D. E. KHMELNITSKII Fairy Tales. (Six lectures) F. 10.30 *(TCM)*	

Courses recommended for Research Students in Astrophysics

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

CAVENDISH ASTROPHYSICS GROUP AND THE INSTITUTE OF ASTRONOMY		
DR D. F. BUSCHER, PROF. P. C. HEWETT AND OTHERS See *http://www.mrao.cam.ac.uk/lectures.html* for a detailed timetable.	The same continued.	The same continued.

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

MICHAELMAS 2008	LENT 2009	EASTER 2009

Courses recommended for Research Students in High Energy Physics

DR C. G. LESYTER AND OTHERS Selected Topics in Elementary Partical Physics. Tu. Th. 9.30 *HEP Seminar Room*	The same continued.	

Courses organised by the Centre for Scientific Computing

Lectures are given in the *Small Lecture Theatre (S)* and Practical Sessionsd in the *the Mott Seminar Room (M),* unless otherwise stated.

DR R. M. KIRBY High-performance Scientific Computing M. Tu. 2–3.30 *(S)* Practical Sessions Tu. 3.30 *(M)* PROF. P. L. ROE Principles of Computing Continuum Flows M. W. F. 3.30 *(S)* Practical Sessions W. 4.30 *(M)*		

continued >