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

MICHAELMAS 2009	LENT 2010	EASTER 2010

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.		

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. Th. 11.30 *Seminar Room*	The same continued.	The same continued.

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. 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.	The same continued.
PROF. H. ELDERFIELD, DR L. SKINNER AND OTHERS Quaternary Discussion Group. alternate F. 8.30 p.m. *Christ's College*	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 Prof. Jardine will meet all new graduate students at 2pm on Wednesday 7 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, M.Phil and PhD students.		
History and Philosophy of Science Seminar. Th. 4.30 (weeks 3–8)	The same continued.	The same continued.
M.Phil/Part III 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.
HPS History 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.
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.
Medieval Philosophy Reading Group. W. 1 (*CRASSH, 17 Mill Lane*)	The same continued.	The same continued.
Philosophy of Physics Seminar. M. 4.30 (*Meeting Room 14, Centre for Mathematical Sciences*)	The same continued.	

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

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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 J. LOUDON, DR R. A. OLIVER AND 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 AND DR S. WIMBUSH
NE.04 Nanofabrication Techniques (Sixteen lectures)
PROF. J. L. DRISCOLL, PROF. A. L. GREER AND PROF. A. H. WINDLE
NE.05 Nanomaterials (Sixteen lectures)
†DR J. NITSCHKE AND DR W. T. S. HUCK
NE.06 Nanochemistry (Sixteen lectures)
DR C. FORD
NE.07 Physics at the Nanometre-scale (Sixteen lectures)
DR P. D. BARKER
NE.08 Bionanotechnology (Sixteen lectures)
PROF. A. L. GREER AND PROF. B. A. GLOWACKI
NE.09 Glasses and nanomaterials (Sixteen lectures)
DR R. V. KUMAR AND DR C. SCHWANDT
NE.10 Nanotelectrochemistry (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 AND 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 AND DR C. SCHWANDT
Materials Chemistry. (Six lectures)
DR W. O. SAXTON
Image Processing in Materials Science.(Four lectures)
DR S. C. WIMBUSH AND DR A. AZIZ
Microfabrication. (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, 14, 28 Oct., 11, 25 Nov.)	The same continued. (Four seminars, 20 Jan., 3, 17 Feb., 3 Mar.)	The same continued. (Two seminars, 28 Apr., 12 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. D. A. RITCHIE 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. 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 Electronics Structure and Bonding Across the Periodic Table. (Eight lectures) Tu. Th. 10 *(TCM)*	DR J. KEELING AND OTHERS Light-Matter Interaction and Quantum Optics. (Twelve lectures) Tu. Th. 10 *(TCM)*	
PROF. D. E. KHMELNITSKII AND OTHERS Statistical Physics. (Twelve lectures) M. W. 10 *(TCM)*	DR S. AHNERT AND OTHERS Complex Networks. (Six lectures) M. W. 10 *(TCM)*	
DR N. DRUMMOND Electronic Structure of Solids. (Eight lectures) Tu. Th. 10 *(TCM)*	DR G. MOELLER Topologically Protected Quantum Computation with Anyons. (Five lectures) M. W. 10 *(TCM)*	
PROF. D. E. KHMELNITSKII Fairy Tales. (Six lectures) F. 10 *(TCM)*	PROF. D. E. KHMELNITSKII AND OTHERS Research in TCM. Tu. Th. 10 *(TCM)*	
	DR M. RUTTER Introduction into Computation. (Six lectures) M. W. 10 *(TCM)*	
	PROF. D. E. KHMELNITSKII Fairy Tales. (Six lectures) F. 10 *(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.

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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 *Rutherford 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*	

Courses organised by the Centre for Scientific Computing

Lectures take place in the *Microclectronics Research Centre Seminar Room (MRC)*.

DR N. NIKIFORAKIS Numerical solution of Partial Differential Equations. (Part 1) M. W. F. 2–4 (beginning 19 Oct.) DR N. NIKIFORAKIS Numerical solution of Partial Differential Equations. (Part 2) M. W. F. 2–4 (beginning 26 Oct.) DR D. E. A. VAN ODYCK Solution of Linear Systems, Initial Value and Boundary Value Problems. Tu. Th. 2 (beginning 20 Oct.) DR K. R. BATES Mesh Generation and Mesh Adaptation for Partial Differential Equations. Tu. Th. 3 (beginning 20 Oct.)		

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