NATURAL SCIENCES TRIPOS, PART III (continued)

MICHAELMAS 2000 **LENT 2001** EASTER 2001

MATERIALS SCIENCE AND METALLURGY (continued)

Management Option

(Details to be announced)

Language Option

Two hours per week: M. 4–6 or Tu. 4–6 or W. 2–4 or Th. 2-4 or Th. 4-6 or F. 2-4

Management Option

(Details to be announced)

Language Option

The same continued

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

CHEMISTRY

Advanced courses (mainly for Research Students and others interested)

STAFF OF THE CHEMICAL LABORATORY Research Techniques in Organic Chemistry. W. 9 (starting 11 Oct.) 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, 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. N. J. SHACKLETON AND OTHERS

Quarternary Discussion Group, Alternate F. F. 8.30 p.m. Clare Hall

The same continued

The same continued

Earth Sciences, Harker II Room

The same continued

The same continued

The same continued

The same continued

GRADUATE COURSES

THE STAFF OF THE ELECTRON PROBE LABORATORIES Physical Techniques (by arrangement) DR J. A. HUDSON [Math] Waves in Solid Media. M. W. F. 12

OTHER COURSES

PROF. D. P. McKENZIE AND DR K. PRIESTLEY Physics of the Earth as a Planet. M. W. F. 10 Cavendish Laboratory STAFF OF THE IRC IN SUPERCONDUCTIVITY Classical and High Temperature Superconductivity. Th. 11 (Eight lectures) IRC Seminar Room DR J. HAINES Field Course in Geophysics1

¹ Graduates wishing to take the Field Course should write to Dr Haines at the Bullard Laboratories early in October 2000. It may be necessary to limit numbers

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

MICHAELMAS 2000 **LENT 2001** EASTER 2001

HISTORY AND PHILOSOPHY OF SCIENCE

Seminars and Reading Groups for Research Students in History and Philosophy of Science

Prof. P. Lipton and Dr J. Forrester 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 Department Office or from the website http://www.hps.cam.ac.uk/

all MPhil and PhD students				
History and Philosophy of Science Seminar. Th. 4.30				
(from 17 Oct.)	The same continued.	Th. 4.30	The same continued.	Th. 4.30
M.Phil. Seminar in History and Philosophy of Science and				
Medicine. Tu. 2	The same continued.	Tu 2	The same continued.	Tu 2
Psy Studies. W. 5 (fortnightly, from week 2)	The same continued.		The same continued.	W. 5
Psychoanalysis and the Humanities. W. 5 (fortnightly,	The same communication	,5	The same commuca.	*****
from week 1)	The same continued.	W. 5	The same continued.	W. 5
Early Medicine and Natural Philosophy. Tu. 5	The same continued.	""	The same continued.	***.5
(fortnightly, from 17 Oct.)	The same continued.	Tu 5		
History of Modern Medicine and Biology. Tu. 5	The same continued.	1u. 5		
(fortnightly, from 10 Oct.)	The same continued.	Tu 5		
Cabinet of Natural History. M. 1	The same continued.		The same continued.	M 1
Historiography Seminar. W. 8 p.m. (fortnightly) Darwin	The same continued.	IVI. I	The same continued.	IVI. I
College Seminar Room	The same continued.	W. 8	The same continued.	W. 8
0				
Epistemology Reading Grouping. Th. 2	The same continued.	1 h. 2	The same continued.	Th. 2
Medieval Sciences Reading Group. Tu. 1 L1, Great				
Court, Trinity College	The same continued.	Tu. 1	The same continued.	Tu. 1
Evolution Reading Group. Tu. 8 (fortnightly) Darwin				
College	The same continued.	Tu. 8	The same continued.	Tu. 8
Philosophy of Physics Reading Group. F. 2 (fortnightly)	The same continued.	F. 2	The same continued.	F. 2
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MATERIALS SCIENCE AND METALLURGY

COURSES FOR GRADUATES

Course Co-ordinator: Dr R. E. M. Ward E-mail: remw2@msm.cam.ac.uk

Lectures will be given in the Department of Materials Science and Metallurgy

A detailed timetable is available in the Department.

STAFF OF THE DEPARTMENT Techniques of Materials Research. M. Tu. W. Th. F. 2, 3 (Nineteen lectures, beginning 5 Oct.) DR J. A. LITTLE Scanning Electron Microscopy. M. W. F. 2 (Eight lectures, beginning 23 Oct.) DR W. O. SAXTON Image Processing in Materials Science. Tu. Th. 2 (Four lectures, beginning 24 Oct.) PROF. D. J. FRAY AND DR R. V. KUMAR Experimental Techniques in Chemical Metallurgy. Tu. Th. 2 (Eight lectures, beginning 7 Nov.) DR Z. H. BARBER Film Deposition and Microfabrication Techniques.

M. W. F. 2 (Six lectures, beginning 10 Nov.)

Research Methods and Resources. Th. 4 (5, 12 Oct.). For

DR C. B. BOOTHROYD Microprobe Analysis. M. W. F. 2 (Eight lectures) DR R. E. CAMERON X-ray and Neutron Diffraction Methods. Tu. Th. 2 (Six lectures) PROF. C. J. HUMPHREYS Advanced Transmission Electron Microscopy. Tu. Th. 2 DR P. A. MIDGLEY Introduction to Transmission Electron Microscopy. Details to be announced (Eight lectures) PROF. W. BONFIELD, DR R. E. CAMERON AND DR S. M. BEST Introduction to Biomaterials (Eight lectures) Details to be announced

REGULAR SEMINARS

DR A. L. GREER AND OTHERS Materials Science and Metallurgy. M. 4.15 The same continued The same continued

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

MICHAELMAS 2000 LENT 2001 EASTER 2001

M.PHIL. IN MATERIALS MODELLING

Course Co-ordinator: Dr Z. H.Barber

Lectures will be given in the Department of Materials Science and Metallurgy

PROF. A. H. WINDLE Introduction to Materials Science (Three lectures) DR P. D. BRISTOWE AND OTHERS General Methodology (Eleven lectures) Ab initio Methods and Approximations (Twelve lectures) DR J. ELLIOTT AND PROF. A. H. WINDLE Monte Carlo and Molecular Dynamics Methods (Twelve lectures) PROF. D. J. FRAY, PROF. H. K. D. H. BHADESHIA AND DR R. V. KUMAR Thermodynamics and Phase Diagrams (Twelve lectures) DR S. M. ROBERTS AND DR H. SHERCLIFF Process Modelling, Part I (Six lectures) DR A. L. GREER, DR R. C. REED AND PROF. H. K. D. H. BHADESHIA Kinetics and Microstructure Modelling (Twenty lectures) DR G. GOLDBECK-WOOD AND PROF. H. K. D. H. BHADESHIA Mesoscale and Multiscale Modelling (Seven lectures)

DR D. M. KNOWLES AND PROF. T. W. CLYNE
Structure-Property Relationships
(Twenty lectures)
STAFF OF THE DEPARTMENT
Process Modelling, Part 2 (Forteen lectures)

M.PHIL. IN MICROELECTRONIC ENGINEERING AND SEMICONDUCTOR PHYSICS

Lectures are given either in the Microelectronics Seminar Room, Cavendish Laboratory, or at the Department of Engineering

DR Z A K DURRANI Semiconductor device physics (Ten lectures) PROF. M. E. WELLAND Physics of semiconductors (Six lectures) PROF. H. AHMED Semiconductor memory and logic (Four lectures) DR D. G. HASKO Semiconductor processing (Six lectures) DR J. R. A. CLEAVER Lithography (Six lectures) DR E. MUNRO Electron optics for lithography (Six lectures) PROF. M. E. WELLAND Materials analysis for semiconductor devices (Three lectures) PROF. P. MIGLIORATO Large-area devices and displays (Four lectures) DR F. UDREA Power microelectronics (Four lectures) DR D. M. HOLBURN Devices, circuits and modelling (Five lectures) DR C. G. SMITH

Quantum transport in semiconductor device physics (Four lectures)

DR R. J. MEARS

Optoelectronics (Six lectures)

PROF. W. I. MILNE

Amorphous semiconductors and their applications (Four lectures)

DR C. R. LOWE

Bioelectronics (Four lectures)

A detailed teaching programme, with information about the laboratory courses, may be obtained from Dr J. R. A. Cleaver at the *Department of Physics*.

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PHYSICS

COURSES FOR GRADUATES

Courses recommended for Research Students in Solid State Physics

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

STAFF OF THE MOTT BUILDING (M)Solid State Physics. M. W. F. 9 DR A. L. BLELOCH AND OTHERS (M)Principles of Electron Microscopy and Diffraction. Tu. Th. 12 (additional practicals at times to be arranged) PROF. D. E. KHMELNITSKII Condensed Matter Theory. Tu. Th. 10 (Sixteen lectures) Physical Kinetics. Tu. Th. 12 (Twelve lectures, beginning 5 Oct.) Special Topics in Theoretical Physics. F. 10 (Six lectures, beginning 6 Oct.) DR Y MAO Statistical Physics I: Soft Condensed Matter. M. W. 10 (Seven lectures, beginning 9 Oct.) DR M. DODGSON Statistical Physics II: Phase Transitions. M. W. 10

The same continued. (M)The same continued. (M)

DR M. J. RUTTER Computer Architecture: Software. Tu. Th. 10 (Four lectures, beginning 18 Jan.) DR A. GREEN Ouantum Magnetism. Tu. Th. 10 (Eight lectures, beginning 1 Feb.) DR B. D. SIMONS Field Theory in Condensed Matter Physics. Tu. Th. 10 (Four lectures, beginning 1 Mar.) DR T. J. DUKE AND DR G. RAJAGOPAL Biophysics. M. W. 10 (Six lectures, beginning 22 Jan.) DR R. J. NEEDS Electronic Structure Methods. M. W. 10 (Six lectures, beginning 12 Feb.)

The same continued. (M)

DR I. HOPKINSON AND OTHERS Polymers and Colloids. M. 2–4 P and C Seminar Room

Courses recommended for Research Students in Astrophysics

See Graduate Lectures in Astronomy and Astrophysics (p. 206)

Courses recommended for Research Students in High Energy Physics

DR J. R. CARTER AND OTHERS Selected Topics in Elementary Particle Physics. Tu. Th. 9.30 HEP Seminar Room

(Seven lectures, beginning 1 Nov.)

The same continued

The same continued

REGULAR SEMINARS

All seminars continued in the Lent and Easter Terms

Principal Seminar

DR J. A. C. BLAND AND OTHERS Cavendish Physical Society. W. 4.30

Research Group Seminars

DR S. R. JULIAN AND OTHERS Low Temperature Physics. W. 11.15 PROF. R. E. HILLS AND OTHERS Astrophysics. Tu. 4.30 DR J. R. CARTER AND OTHERS High Energy Physics. Tu. 3 PROF. M. PEPPER AND OTHERS Semiconductor Physics. M. 2.15 PROF. L. M. BROWN AND OTHERS MP/PCS Seminars in Microstructural Physics. W. 2.30 PROF. J. E. FIELD AND OTHERS PCS (Materials). Th. 4.30 PROF. A. M. DONALD AND OTHERS Polymer and Colloid Physics. F. 2.15 PROF. R. H. FRIEND AND OTHERS Moleculars and Opto-Electronics. Tu. 2.15 DR D. A. CARDWELL AND OTHERS Superconductivity. Th. 11 PROF. P. LITTLEWOOD AND OTHERS Theory of Condensed Matter. Th. 2.15