## NATURAL SCIENCES TRIPOS, PART III (continued)

MICHAELMAS 2001

LENT 2002

EASTER 2002

### 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

# (Details to be announced) Language Option

The same continued.

Management Option

# 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

#### 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

Th. 11 (Eight lectures) IRC Seminar Room

DR J. HAINES

Field Course in Geophysics1

The same continued.

#### EARTH SCIENCES

#### **REGULAR SEMINARS**

PROF. E. SALJE 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 The same continued. The same continued. Earth Sciences, Harker II Room Room A PROF. N. J. SHACKLETON AND OTHERS The same continued Quarternary Discussion Group, Alternate F. The same continued F. 8.30 p.m. Clare Hall 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.

<sup>1</sup> Graduates wishing to take the Field Course should write to Dr Haines at *the Bullard Laboratories* early in October 2001. It may be necessary to limit numbers.

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

**MICHAELMAS 2001** 

Research Methods and Resources Th 4(4.6.11 Oct.)

LENT 2002

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# HISTORY AND PHILOSOPHY OF SCIENCE

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

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Prof. P. Lipton and Dr J. Forrester will meet all postgraduate students at 10 a.m. on Tuesday 2 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/

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For all M.Phil. and Ph.D. students				
History and Philosophy of Science Seminar. Th. 4.30				
(from 18 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 1)	The same continued.	W. 5	The same continued.	W. 5
Psychoanalysis and the Humanities. W. 5 (fortnightly,				
from week 2)	The same continued.	W. 5	The same continued.	W. 5
Early Medicine and Natural Philosophy. Tu. 5				
(fortnightly, from week 2)	The same continued.	Tu. 5		
History of Modern Medicine and Biology. Tu. 5				
(fortnightly, from week 1)	The same continued.	Tu. 5		
Cabinet of Natural History. M. 1	The same continued.	M. 1	The same continued.	M. 1
History of Science workshop. W. 1 p.m. (fortnightly)				
Darwin College Seminar Room	The same continued.	W. 1	The same continued.	W. 1
Epistemology Reading Grouping. Th. 2	The same continued.	Th. 2	The same continued.	Th. 2
Medieval Sciences and Philosophy Reading. Tu. 1 L1,				
Great Court, Trinity College	The same continued.	Tu. 1	The same continued.	Tu. 1
Science and Literature Reading Group. Tu. 8 (fortnightly)				
Darwin College	The same continued.	Tu. 8	The same continued.	Tu. 8
Philosophy Reading Group. W. 2 (fortnightly)	The same continued.	W. 1	The same continued.	W. 1
Philosophy of Maths Reading Group. F. 2 (fortnightly)	The same continued.	F. 2 (fortnightly)		
Early Physics, Astronomy, Cosmology and Technology	The same continued.	W. 6	The same continued.	W. 6
Reading Group, W. 6				

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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 (Twenty-three lectures, beginning 4 Oct.) DR J. A. LITTLE Scanning Electron Microscopy. M. W. F. 2 (Eight lectures, beginning 22 Oct.) DR W. O. SAXTON Image Processing in Materials Science. Tu. Th. 2 (Four lectures, beginning 23 Oct.) DR R. V. KUMAR AND DR G. C. CHEN Experimental Techniques in Chemical Metallurgy. Tu. Th. 2 (Eight lectures, beginning 6 Nov.) DR Z. H. BARBER Film Deposition and Microfabrication Techniques. M. W. F. 2 (Six lectures, beginning 9 Nov.) STAFF OF THE DEPARTMENT Entrepreneurship and exploitation of results. Deatils to be announced

A. N. OTHER Microprobe Analysis. M. W. F. 2 (Eight lectures) DR R. E. CAMERON X-ray and Neutron Diffraction Methods. Tu. Th. 2 (Seven 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 (Four 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)

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# M.PHIL. IN MATERIALS MODELLING

Course Co-ordinator: Dr Z. H.Barker

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



## 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

PROF. M. E. WELLAND Physics of semiconductors (Six lectures) DR Z. A. K. DURRANI Semiconductor device physics (Ten 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 R. J. COLLIER Millimetre-wave devices, circuits and measurements (Four lectures)

A. N. OTHER Optoelectronics (Six lectures) PROF. W. I. MILNE Amorphous semiconductors and their applications (Four lectures) DR C. R. LOWE Bioelectronics (Three 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*.

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

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[Special No. 1

### 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 Physics. Tu. Th. 10 (Twelve lectures, beginning 9 Oct.) Special Topics in Theoretical Physics. F. 10 (Six lectures, beginning 5 Oct.) DR Y. MAO Statistical Physics I: Soft Condensed Matter. M. W. 10 (Eight lectures, beginning 8 Oct.) DR M. DODGSON Statistical Physics II: Phase Transitions. M. W. 10 (Eight lectures, beginning 5 Nov.)

# The same continued. (M)

The same continued. (M)

PROF. D. E. KHMELNITSKII
Path Integrals. Th. 10 (Eight lectures, beginning 17 Jan.)
DR C. MOLTENI
Electronic Structure Methods. M. W. 10 (Six lectures, beginning 16 Jan.)
DR D. TARAS-SEMCHUK
Field Theory in Condensed Matter Physics. M. W. 10 (Eight lectures, beginning 6 Feb.) The same continued. (M)

Courses recommended for Research Students in Astrophysics See Graduate Lectures in Astronomy and Astrophysics (p. 211) 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* 

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. A. N. LASENBY 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 DR A. L. BLELOCH AND DR J. ELLIS 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 PROF. P. LITTLEWOOD AND OTHERS Theory of Condensed Matter. Th. 2.15