

Faculty of Earth Sciences and Geography (continued)

M.PHIL. IN QUATERNARY SCIENCE

All lectures to be delivered in the Department of Geography, at times to be arranged

MICHAELMAS 2003

LENT 2004

EASTER 2004

Core Lecture Course

Introduction to the Quaternary
DR P. L. GIBBARD (Twelve hours)
PROF. J. DOWDESWELL (Four hours)

The terrestrial stratigraphical record
DR P. L. GIBBARD (Four hours)

The marine stratigraphical record
PROF. N. S. SHACKLETON (Four hours)

Sea level changes and coastal evolution
DR T. SPENCER (Four hours)

Climate – ocean interaction
DR N. S. ARNOLD (Eight hours)

Dating Quaternary events
DR V. R. SWITSUR (Two hours)

Human impact
DR H. ALLEN (Four hours)

Diatoms and invertebrates as palaeoenvironmental indicators
DR TURNER (Two hours)

Response of vegetation to climate change
DR TURNER (Two hours)

Vertebrates in the Quaternary record
DR STEWART

Quaternary Research Methods

DR R. C. PREECE (Eight hour lectures, with practicals, one field excursion)

Quaternary Research Seminar
(Sixteen hours)

Core Lecture Course

Ocean records of temperature and Heinrich Events
DR MCCAIVE (Four hours)

Quaternary of the tropics: overview
DR MORLEY (Four hours)

Marine micropalaeontology
DR M. HEAD (Two hours)

Terrestrial sedimentation
DR MOSCARIELLO (Four hours)

Soil Development
DR JEANS (Two hours)

OPTIONAL MODULES

Quaternary landscapes
DR P. L. GIBBARD (Four hours)
DR C. TURNER (Four hours)
(two field trips)

Quaternary Palaeoecology
DR C. TURNER (Four hours)
DR R. C. PREECE (Four hours)

Quaternary geochronology and tephrochronology
DR PYLE
DR SWITSUR

Palaeoclimatology
PROF. T. H. VAN ANDEL, PROF. N. S. SHACKLETON
AND DR ELDERFIELD (Sixteen hours)

Ice sheet Modelling
DR N. S. ARNOLD (Eight lectures, two practicals)

Palaeo-oceanography and palaeoclimate
DR I. MCCAIVE, PROF. N. S. SHACKLETON AND DR
ELDERFIELD.

Late Quaternary landscapes, human land use and human ecology
PROF. T. H. VAN ANSEL (Ten hours)
A.N. OTHER (Eight hours)

Please see the Joint Schools Social Science Research Methods Course entry on (p. 252)

M.PHIL. IN G.I.S. AND REMOTE SENSING

All lectures to be delivered in the Department of Geography, at times to be arranged

Core and specialist techniques modules

Physics and techniques of remote sensing I
DR A. MCGONIGLE (Eight lectures)

Fundamentals of GI science
DR B. DEVEREUX, DR G. AMBLE AND DR S. KEARSEY
(Sixteen lectures and practicals)

Multivariate statistics for GIS and image processing
PROF. A. CLIFF (Eight lectures/demonstrations)

Spatial data analysis for GIS and image processing
PROF. R. HAINING (Eight lectures and practicals)

Processing and analysis of remotely sensed images
DR B. DEVEREUX AND DR G. AMBLE (Eight lectures and practicals)

GIS for Environmental impact evaluation
DR B. DEVEREUX (Eight lectures; eight practicals; field trip)

Core and specialist techniques modules

Airborne remote sensing and field observation
DR B. DEVEREUX AND DR G. AMBLE
(Eight lectures, six practicals, two field visits)

Earth system, atmosphere and volcanoes
DR G. REES AND DR G. AMBLE (Eight lectures)

Cryosphere
DR VAUGHAN, DR TURNER AND MRS J. THOMPSON
(Eight lectures)

Landscape, ecology and environmental modelling
DR B. DEVEREUX AND MR R. M. FULLER (Eight lectures, two site visits)

Archaeological remote sensing and cultural resource management
DR C. SHELL (Eight lectures)

Modelling using natural environmental, remotely sensed and socio-economic data in a GIS context
PROF. D. GRIFFITH (Eight lectures)

Spatial epidemiology and GIS
DR D. LOW-BEER (Six hour lectures/practicals)

Please see the Joint Schools Social Science Research Methods Course entry on (p. 252)