

**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)