

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

MICHAELMAS 2009

LENT 2010

EASTER 2010

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 Nanoelectrochemistry (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)