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UNIVERSITY OF
CAMBRIDGE

NOTICES**Calendar**

28 September, *Wednesday*. First ordinary issue of the *Reporter* in the academical year 2016–17.

1 October, *Saturday*. Michaelmas Term begins. Congregation of the Regent House at 9.30 a.m.: Vice-Chancellor's address, and election and admission of the Proctors.

4 October, *Tuesday*. Full Term begins.

11 October, *Tuesday*. Discussion at 2 p.m. in the Senate-House (see below).

This is the last ordinary issue of the *Reporter* for the 2015–16 academical year. The first ordinary issue of the 2016–17 academical year is due for publication on 28 September 2016; however, if required, an earlier issue may be published on 21 September 2016 for the reporting of official University business only.

Notice of a Discussion on Tuesday, 11 October 2016

The Vice-Chancellor invites those qualified under the regulations for Discussions (*Statutes and Ordinances*, p. 107) to attend a Discussion in the Senate-House on Tuesday, 11 October 2016, at 2 p.m. for the discussion of:

1. Twenty-first Report of the Board of Scrutiny, dated 21 June 2016 (*Reporter*, 6433, 2015–16, p. 776).

Notice of benefactions

The Vice-Chancellor gives notice that he has accepted with gratitude the following benefactions, of which both the capital and the income may be used:

- (i) a philanthropic grant of £1,142,713 from the MAVA Fondation pour la Nature, payable over five years, subject to annual renewal, to support the evidence-based conservation work of the Department of Zoology's Conservation Evidence Programme;
- (ii) two benefactions from the Monument Trust, one of £600,000 to support the Kettle's Yard: Looking Ahead redevelopment approved by Grace 1 of 17 June 2015, and one of £90,000 to support bursaries for candidates for the M.B.A. Degree from the charitable and voluntary sectors;
- (iii) a benefaction of £250,000 from Cambridge in America, payable over two years following donations from Mr David and Mrs Susan Hibbitt, to support the direct and indirect costs of a Head of Building and Estate Services in the Department of Engineering;
- (iv) a benefaction of £250,000 from Miss Sarah Holt to support a Holt Clinical Research Fellowship for a Ph.D. candidate undertaking neurology research in the frontotemporal dementia (FTD) research group led by Professor James Rowe, Department of Clinical Neurosciences;
- (v) a benefaction of £223,574 from the Ministry of Education, Republic of China (Taiwan), payable over three years, to support a Lectorship in Chinese in the Faculty of Asian and Middle Eastern Studies over the same period;
- (vi) bequests under the will of Mr John R. Shakeshaft, comprising £100,000 and a ceramic collection to the Fitzwilliam Museum, and £20,000 to the Cavendish Laboratory;
- (vii) a benefaction of £105,000 from Baillie Gifford & Co, payable over three years, to provide studentships to candidates for Master's degrees in any arts and humanities subject offered by the University over the same period;
- (viii) a benefaction of £100,000 from the TTP Group PLC, payable over two years, to support the planning process for a new building for the Institute for Manufacturing;
- (ix) a further philanthropic grant of £50,000 from the Arcadia Fund to support open access initiatives at the University Library.

The Vice-Chancellor has also accepted with gratitude a bequest of £149,871 under the will of Dr Thomas Desmond Hawkins, former Clinical Dean of the School of Clinical Medicine and former President of Hughes Hall, which is to be added to the Desmond Hawkins Award Fund (*Statutes and Ordinances*, p. 817).

Notice of a ballot on Grace 3 of 13 July 2016

22 July 2016

The Vice-Chancellor gives notice that he has received a request for a vote on Grace 3 of 13 July 2016 regarding the public display of class-lists (*Reporter*, 6433, 2015–16, p. 783) from the following members of the Regent House:

D. S. H. ABULAFIA	A. C. HARVEY	IVAN SMITH
D. ALEXANDER	R. D. HEDLEY	M. C. SMITH
B. ALLANACH	R. D. HOLDER	R. J. SMITH
J. A. D. ASTON	C. J. HOWE	F. M. STAJANO
C. J. M. BELL	L. G. M. KILBRIDE	M. L. SUTHERLAND
JAKE BRADLEY	A. KOMASHIE	R. P. TOMBS
C. J. B. BROOKES	M. H. KRAMER	D. TONG
J. N. BUTTERFIELD	J. LASENBY	P. G. TURNER
P. A. CARTLEDGE	M. D. S. LAZARUS	S. J. WADSLEY
R. P. COWBURN	I. B. LEADER	J. I. WARREN
A. M. J. DICKENS	D. LIANG	J. WHALEY
J. A. ELLIOTT	J. R. LISTER	P. M. H. WILSON
A. R. FERSHT	R. A. MCMAHON	M. B. WINGATE
J. D. FIRTH	J. A. MARENBOON	P. WINGFIELD
M. FRASCA-SPADA	J. E. MORGAN	G. P. WINTER
G. W. GIBBONS	J. E. S. MOSHENSKA	A. M. YOUNG
S. J. GODSILL	T. W. ROBBINS	A. ZSÁK
Z. HADZIBABIC	M. J. RUTTER	
E. M. HARPER	P. J. SLOMAN	

The vote will be conducted by ballot under the Single Transferable Vote regulations (*Statutes and Ordinances*, p. 117). In connection with this ballot the Registry will arrange for the circulation of any fly-sheet, signed by ten or more members of the Regent House, which reaches him by **1 p.m. on Tuesday, 15 November 2016**. Fly-sheets must bear, in addition to the signatures, the names and initials (in block capitals) of the signatories (*Statutes and Ordinances*, p. 112). Documents which are submitted by fax to 01223 (3)32332 or scanned documents containing a signature sent to the Registry at Registry@admin.cam.ac.uk will also be accepted. Online voting will open at 10 a.m. on Monday, 28 November 2016 and close at 5 p.m. on Thursday, 8 December 2016; fly-sheets will be available online. Hard-copy voting papers and fly-sheets will be distributed not later than Monday, 28 November 2016 to those who opted by 5 November 2016 to vote on paper; the last date for the return of voting papers will be **5 p.m. on Thursday, 8 December 2016**.

Cambridge University Assistants' Contributory Pension Scheme (CPS)

25 July 2016

Ordinance 5 for the Contributory Pension Scheme (CPS) (*Statutes and Ordinances*, p. 153), and Rule 5 of the Scheme rules permit the rules of the Contributory Pension Scheme to be amended from time to time. Except where the amendment is required to ensure the Scheme's continued approval by the Savings, Pensions, and Share Schemes Office of the Inland Revenue (now HM Revenue & Customs) such changes require the authority of a Grace.

Rule 5 of the rules of the CPS further provides that the University shall have the power to amend the rules of the Scheme from time to time provided that the changes have been approved by two-thirds of the Scheme's Managing Committee. The proposed changes were considered and approved by the Committee on 29 April 2016 and by the Finance Committee of the Council on 6 July 2016.

The main changes concern death in service benefits, to provide for cases when a member is on unpaid sick leave, so that any lump sum death benefit payable will be based on the salary the member would have been receiving but for their absence. There are also some minor amendments to cover the death of a member while on maternity/paternity/parental leave. An explanatory note and the changes proposed are available at <http://www.admin.cam.ac.uk/reporter/2015-16/weekly/6434/CPS-changes.pdf>. The current rules of the Scheme are available on the Pensions website at <http://www.pensions.admin.cam.ac.uk/cps>.

The Council is submitting a Grace (Grace 1, p. 820) for the approval of the amendments to the rules of the Cambridge University Assistants' Contributory Pension Scheme as set out at <http://www.admin.cam.ac.uk/reporter/2015-16/weekly/6434/CPS-changes.pdf>.

Annual Reports

The following Annual Reports have been received by the Council or the General Board and are available on the websites indicated:

University Botanic Garden, Annual Report, 2014–15	http://www.botanic.cam.ac.uk/ (from the 'About us' tab)
Health and Safety Executive Committee, Annual Report, 2015	http://www.safety.admin.cam.ac.uk/publications/hsd139m-annual-report-health-and-safety-executive-committee

University Combination Room closure

The University Combination Room will be closed for annual maintenance for two weeks from Monday, 15 August 2016, reopening at 9 a.m. on Tuesday, 30 August 2016.

VACANCIES, APPOINTMENTS, ETC.

Vacancies in the University

A full list of current vacancies can be found at <http://www.jobs.cam.ac.uk/>.

University Lecturer (Honorary Consultant) in Translational Respiratory Medicine in the Department of Medicine; salary: £76,001–£102,465; closing date: 21 August 2016; further details: <http://www.jobs.cam.ac.uk/job/10902>; quote reference: RC09619

Administrative Officer (Deputy Head of Exams) in the Academic Division; salary: £28,982–£37,768; closing date: 15 August 2016; further details: <http://www.jobs.cam.ac.uk/job/10951>; quote reference: AK09666

The University values diversity and is committed to equality of opportunity.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

Electors to the Sir Kirby Laing Professorship of Civil Engineering

The Council has appointed members of the *ad hoc* Board of Electors to the Sir Kirby Laing Professorship of Civil Engineering as follows:

Professor Jeremy Sanders, *SE*, in the Chair, as the Vice-Chancellor's deputy

(a) *on the nomination of the Council*

Professor William Baker, *University of Illinois at Urbana-Champaign and Northwestern University*
Professor Nick Buenfeld, *Imperial College London*

(b) *on the nomination of the General Board*

Professor David Cardwell, *F*
Professor Richard Prager, *Q*
Ms Jane Wernick, *Jane Wernick Associates*

(c) *on the nomination of the Faculty Board of Engineering*

Professor Abir Al-Tabbaa, *SID*
Dr Simon Guest, *TH*
Professor John Ochsendorf, *Massachusetts Institute of Technology*

Electors to the Professorship of Public Policy

The Council has appointed members of the *ad hoc* Board of Electors to the Professorship of Public Policy as follows:

Professor Eilis Ferran, *CTH*, in the Chair, as the Vice-Chancellor's deputy

(a) on the nomination of the Council

Professor Philip Allmendinger, *CL*
Dr Helen Thompson, *CL*

(b) on the nomination of the General Board

Professor Simon Deakin, *PET*
Professor Theresa Marteau, *CHR*
Professor Nick Pearce, *University of Bath*

(c) on the nomination of the Faculty Board of Human, Social, and Political Science

Professor Gary Gerstle, *SID*
Professor David Runciman, *TH*
Professor Monica Toft, *University of Oxford*

Appointments, reappointments, and grants of title

The following appointments, reappointments, and grants of title have been made:

APPOINTMENTS

University Lecturers

Archaeology and Anthropology. Dr Enrico Ryunosuke Crema, B.A., *Bologna*, M.Sc., Ph.D., *London*, appointed from 1 September 2016 until the retiring age and subject to a probationary period of five years.

Geography. Dr Richard Charles Powell, Ph.D., *EM*, B.A., *Oxford*, M.A., *British Columbia*, appointed from 1 April 2017 until the retiring age and subject to a probationary period of two years.

History. Dr Arthur Rene Charles Maxime Asseraf, B.A., *K*, M.A. / M.Sc., *Columbia and London School of Economics and Political Science*, D.Phil., *Oxford*, appointed from 1 October 2017 until the retiring age and subject to a probationary period of five years.

Heads of Department

Geography. Professor Ashit Amin, *CHR*, appointed from 1 October 2016 for three years.

Zoology. Dr Howard Baylis appointed from 1 October 2016 for three years.

Deputy Head of Department

Psychology. Dr Katrina Plaisted Grant, *JN*, appointed from 1 October 2016 for three years.

Senior Assistant Registrar

University Offices (Academic Division). Ms Sarah Elizabeth d'Ambrumenil, LL.B., B.V.C., *Cardiff*, appointed from 19 September 2016 until the retiring age and subject to a probationary period of nine months.

Senior Under-Librarian

University Library. Ms Noelle Sexton appointed from 1 August 2016 until the retiring age.

Senior Technical Officer

Chemistry. Dr Richard Michael Turner, G.R.S.C., *Cambridgeshire College of Arts and Technology*, Ph.D., *London*, appointed from 11 July 2016 until the retiring age and subject to a probationary period of nine months.

REAPPOINTMENTS

Heads of Department

Physiology, Development, and Neuroscience. Professor William Harris, *CL*, reappointed from 1 January 2017 to 30 September 2018.

Public Health and Primary Care. Professor John Danesh reappointed from 1 September 2016 for five years.

Deputy Heads of Department

Oncology. Professor Anna Philpott, *CL*, reappointed from 1 August 2016 for three years.

Physics. Professor Christopher Haniff, *DOW*, reappointed from 1 October 2016 for three years.

GRANTS OF TITLE

Affiliated Lecturers

Archaeology and Anthropology. Dr Fiona Catherine Wright has been granted the title of Affiliated Lecturer from 1 October 2016 until 30 September 2018. Dr Nicholas Hugh Alexander Evans and Dr Pier Paolo Heywood, *SID*, have been granted the title of Affiliated Lecturer from 1 October 2016 for a further two years.

Architecture and History of Art. Mr Michael Stuart Driver, Dr Claudia Marx, and Dr Eleanor Alice Frances Voss have been granted the title of Affiliated Lecturer from 1 October 2016 for a further year.

Biochemistry. Professor Michael John Waring, *JE*, has been granted the title of Affiliated Lecturer from 1 October 2016 until 30 September 2018.

Engineering. Mr Anthony R. M. Roulstone has been granted the title of Affiliated Lecturer from 1 October 2016 for a further year.

Genetics. Dr Giorgio Favrin has been granted the title of Affiliated Lecturer from 1 October 2016 until 30 September 2018.

Music. Dr Daniel Trocme-Latter, *HO*, has been granted the title of Affiliated Lecturer from 1 October 2016 until 30 September 2018. Mr Andrew Arthur, *TH*, Mr Timothy James Watts, *JN*, and Dr Silas John Wollaston, *Q*, have been granted the title of Affiliated Lecturer from 1 October 2016 for a further two years.

Pathology. Dr Paul Anthony Wright Edwards, *CL*, has been granted the title of Affiliated Lecturer from 1 October 2016 until 30 September 2018. Dr Ian Barry Kingston, *CC*, has been granted the title of Affiliated Lecturer from 1 October 2016 for a further two years.

Psychology. Dr Paul Michael Bays, Dr Lee Howard De-Wit, Dr Sheila Flanagan, *DAR*, Dr Chiara Giuliano, Professor Brian Richard Little, and Dr Meredith Allaire Shafto have been granted the title of Affiliated Lecturer from 1 October 2016 until 30 September 2018. Dr Mihaela Constantinescu, *CHU*, and Dr Ljerka Ostojic, *CL*, have been granted the title of Affiliated Lecturer from 1 October 2016 for a further two years.

AWARDS, ETC.**Scholarships and Prizes, etc. awarded**

This content has been removed as it contains personal information protected under the Data Protection Act.

NOTICES BY THE GENERAL BOARD

Senior Academic Promotions, 1 October 2016 exercise: Appointments and titles

In its Report of 1 June 2016 on Senior Academic Promotions (*Reporter*, 6429, 2015–16, p. 628), the General Board recommended the establishment of 33 Professorships and 37 Readerships. In Paragraph 5 it was stated that the Board would announce the titles at a later date after consultation with the individuals concerned. The recommendations of the Report were approved by Grace 7 of 13 July 2016. The following list of appointments includes the titles that have been agreed.

PROFESSORSHIPS

With effect from 1 October 2016*School of Arts and Humanities*

Dr WENDY PULLAN, *CL*, appointed Professor of Architecture and Urban Studies in the Department of Architecture
 Dr EMILY GOWERS, *JN*, appointed Professor of Latin Literature in the Faculty of Classics
 Dr CHRISTOPHER KELLY, *CC*, appointed Professor of Classics and Ancient History in the Faculty of Classics
 Dr RICHARD REX, *Q*, appointed Professor of Reformation History in the Faculty of Divinity

School of the Biological Sciences

Dr JULIAN GRIFFIN, *K*, appointed Professor of Metabolism and Nutrition in the Department of Biochemistry
 Dr FLORIAN HOLLFELDER, *TH*, appointed Professor of Synthetic and Chemical Biology in the Department of Biochemistry
 Dr JOHN DOORBAR, *HH*, appointed Professor of Viral Pathogenesis in the Department of Pathology
 Dr DAVID COOMES, *F*, appointed Professor of Forest Ecology and Conservation in the Department of Plant Sciences
 Dr JEFFREY DALLEY, *CTH*, appointed Professor of Behavioural Neuroscience in the Department of Psychology

School of Clinical Medicine

Dr BRIAN HUNTLY, *CAI*, appointed Professor of Leukaemia Stem Cell Biology in the Department of Haematology
 Dr HELENA EARL, appointed Professor of Clinical Cancer Medicine in the Department of Oncology
 Dr PHILIP JONES, *CL*, appointed Professor of Cancer Development in the Department of Oncology

School of the Humanities and Social Sciences

Dr ALEXEY ONATSKIY, *CHU*, appointed Professor of Econometrics in the Faculty of Economics
 Dr RICHARD HICKMAN, *HO*, appointed Professor of Aesthetic Development in the Faculty of Education
 Dr TIMOTHY HARPER, *M*, appointed Professor of the History of Southeast Asia in the Faculty of History
 Dr JAMES MULDREW, *Q*, appointed Professor of Economic and Social History in the Faculty of History
 Dr HELEN THOMPSON, *CL*, appointed Professor of Political Economy in the Department of Politics and International Studies
 Dr NICHOLAS HOPWOOD, *DAR*, appointed Professor of History of Science and Medicine in the Department of History and Philosophy of Science

School of the Physical Sciences

Dr THOMAS SPENCER, *M*, appointed Professor of Coastal Dynamics in the Department of Geography
 Dr STUART DALZIEL, *SID*, appointed Professor of Fluid Mechanics in the Department of Applied Mathematics and Theoretical Physics
 Dr RICHARD NICKL, *Q*, appointed Professor of Mathematical Statistics in the Department of Pure Mathematics and Mathematical Statistics
 Dr CHRISTOPHER TOUT, *CHU*, appointed Professor of Stellar Evolution in the Institute of Astronomy
 Dr MARK WYATT, *PEM*, appointed Professor of Astrophysics in the Institute of Astronomy
 Dr MARKUS KALBERER, *DAR*, appointed Professor of Atmospheric Science in the Department of Chemistry
 Dr ZOE BARBER, *DOW*, appointed Professor of Materials Science in the Department of Materials Science and Metallurgy
 Dr PIETRO CICUTA, *CC*, appointed Professor of Biological Physics in the Department of Physics
 Dr ULRICH KEYSER, *CAI*, appointed Professor of Applied Physics in the Department of Physics

School of Technology

Dr MARK DE ROND, *DAR*, appointed Professor of Organizational Ethnography in the Judge Business School
 Dr GABOR CSANYI, *PEM*, appointed Professor of Molecular Modelling in the Department of Engineering
 Dr SIMON GUEST, *TH*, appointed Professor of Structural Mechanics in the Department of Engineering
 Dr STEPHAN HOFMANN, *PET*, appointed Professor of Nanotechnology in the Department of Engineering
 Dr ASHWIN SESHIA, *Q*, appointed Professor of Microsystems Technology in the Department of Engineering
 Dr GEOFFREY MOGGRIDGE, *K*, appointed Professor of Chemical Engineering Science in the Department of Chemical Engineering and Biotechnology

READERSHIPS

With effect from 1 October 2016*School of Arts and Humanities*

Dr IMRE GALAMBOS, *R*, appointed Reader in Chinese in the Department of East Asian Studies
Dr LUCIA PRAUSCELLO, *TH*, appointed Reader in Greek Literature and Language in the Faculty of Classics
Dr JAMES AITKEN, *F*, appointed Reader in Hebrew and Early Jewish Studies in the Faculty of Divinity
Dr JAMES CARLETON PAGET, *PET*, appointed Reader in Early Christianity and Ancient Judaism in the Faculty of Divinity
Dr NATHAN MACDONALD, *JN*, appointed Reader in the Interpretation of the Old Testament in the Faculty of Divinity
Dr KATRIONA BODDY, *F*, appointed Reader in American Literature in the Faculty of English
Dr ROBERT GRANT MACFARLANE, *EM*, appointed Reader in Literature and the Geohumanities in the Faculty of English
Dr NAPOLEON KATSOS, *DAR*, appointed Reader in Experimental Pragmatics in the Department of Theoretical and Applied Linguistics
Dr ARIF AHMED, *CAI*, appointed Reader in Philosophy in the Faculty of Philosophy

School of the Biological Sciences

Dr ROSS WALLER, appointed Reader in Cell Biology and Evolution in the Department of Biochemistry
Dr IAN HENDERSON, *CAI*, appointed Reader in Genetics and Epigenetics in the Department of Plant Sciences
Dr PETER RENTFROW, *F*, appointed Reader in Personality and Individual Differences in the Department of Psychology
Dr ANDREW WELCHMAN, appointed Reader in Computational and Cognitive Neuroscience in the Department of Psychology

School of Clinical Medicine

Dr STEFANO PLUCHINO, *SID*, appointed Reader in Regenerative Neuroimmunology in the Department of Clinical Neurosciences
Mr COLIN WATTS, *PET*, appointed Reader in Neurosurgical Oncology in the Department of Clinical Neurosciences
Dr YORGO MODIS, appointed Reader in Virology and Immunology in the Department of Medicine
Dr KENNETH POOLE, *CL*, appointed Reader in Metabolic Bone Disease in the Department of Medicine
Dr ALISON DUNNING, appointed Reader in Molecular Cancer Genetics in the Department of Oncology

School of the Humanities and Social Sciences

Dr TOKE AIDT, *JE*, appointed Reader in Economics in the Faculty of Economics
Dr DEBOPAM BHATTACHARYA, *T*, appointed Reader in Econometrics in the Faculty of Economics
Dr NIDHI SINGAL, *HH*, appointed Reader in Education in the Faculty of Education
Dr ANDREAS STYLIANIDES, appointed Reader in Mathematics Education in the Faculty of Education
Dr AUGUSTA MCMAHON, *N*, appointed Reader in Mesopotamian Archaeology in the Department of Archaeology and Anthropology
Dr CAMERON PETRIE, *T*, appointed Reader in South Asian and Iranian Archaeology in the Department of Archaeology and Anthropology
Dr LORAND BARTELS, *TH*, appointed Reader in International Law in the Faculty of Law
Dr LOUISE MERRETT, *T*, appointed Reader in International Commercial Law in the Faculty of Law
Dr JENS SCHERPE, *CAI*, appointed Reader in Comparative Law in the Faculty of Law

School of the Physical Sciences

Dr DAVID SKINNER, *T*, appointed Reader in Theoretical Physics (2016) in the Department of Applied Mathematics and Theoretical Physics
Dr THOMAS FISHER, *T*, appointed Reader in Number Theory in the Department of Pure Mathematics and Mathematical Statistics
Dr DEBORA SIJACKI, appointed Reader in Astrophysics and Cosmology in the Institute of Astronomy
Dr ANDREAS BENDER, *K*, appointed Reader in Molecular Informatics in the Department of Chemistry
Dr JASON ROBINSON, *JN*, appointed Reader in Materials Physics in the Department of Materials Science and Metallurgy
Dr NIKOLAOS NIKIFORAKIS, *SE*, appointed Reader in Computational Multiphysics in the Department of Physics

School of Technology

Dr WAH MAK, appointed Reader in Marketing and Decision Sciences in the Judge Business School
Dr ANDREAS RICHTER, appointed Reader in Organizational Behaviour in the Judge Business School
Dr GRAHAM PULLAN, *TH*, appointed Reader in Aerothermal Engineering in the Department of Engineering
Dr GRAHAM TREECE, *Q*, appointed Reader in Information Engineering in the Department of Engineering

Senior Academic Promotions exercise: Amendment to the procedure

With effect from 1 October 2016

In the Report of the General Board, dated 9 May 2012, on the Senior Academic Promotions (SAP) procedure (*Reporter*, 6266, 2011–12, p. 606), it was noted that the General Board had exercised its authority, following approval of Grace 8 of 25 November 1998, to make some minor changes to the SAP annual procedure with effect from 1 October 2012. These changes included the introduction of a rule permitting a maximum of two applications in a three-year period, in order to encourage applicants to seek advice about the appropriate timing of applications.

The General Board, at its meeting on 6 July 2016, received a paper on the conduct of the SAP exercise in 2015–16 and agreed to enable exemptions to the above rule to be granted in exceptional circumstances, provided that any such exemption has the sanction of the relevant Head of Institution and Head of School. This amendment will be incorporated into the procedure and guidance for use in the SAP exercise from 2016–17 onwards.

REGULATIONS FOR EXAMINATIONS

Human, Social, and Political Sciences Tripos

(*Statutes and Ordinances*, p. 334)

With effect from 1 October 2016

The General Board, on the recommendation of the Faculty Board of Human, Social, and Political Sciences, has approved the suspension of Papers SAN9, SAN12, and SAN13 in 2016–17. It has also approved the retitling of politics papers in Part I of the Tripos, in Regulation 11, by amending the titles of POL1 and POL2 to read:

- POL1. The modern state and its alternatives (also serves as an optional paper for Paper 5 of Part IIA of the Economics Tripos)
 POL2. International conflict, order, and justice (also serves as an optional paper for Paper 5 of Part IIA of the Economics Tripos)

In the Notice published on 13 July 2016 (*Reporter*, 6433, 2015–16, p. 758) the references, in paragraphs (b)(iii), (c)(iii), and (d)(ii) of Regulation 18 for the Tripos, to papers for the subject the History and Philosophy of Science in Part II of the Natural Sciences Tripos should have referred to Papers 5 (instead of 10) and 6 (instead of 7).

Examination in Health, Medicine, and Society for the M.Phil. Degree

With effect from 1 October 2017

The General Board, on the recommendation of the Faculty Board of History and Philosophy of Science, has approved Health, Medicine, and Society as a subject for the M.Phil. Degree by advanced study, with effect from 1 October 2017. Special regulations for the examination in the subject have been approved as follows:

HEALTH, MEDICINE, AND SOCIETY

1. The scheme of examination for the one-year course of study in Health, Medicine, and Society for the degree of Master of Philosophy shall consist of:

- (a) two essays, each of no more than 5,000 words, one on a topic chosen from among set topics from a core module, and the other *either* on a second topic chosen from among set topics from a core module *or* from an optional module; the list of modules shall be published by the Degree Committee for the Department of History and Philosophy of Science not later than the start of the Michaelmas Term in which the course shall commence;

and

- (b) a dissertation of between 10,000 and 15,000 words including footnotes but excluding tables, appendices, and bibliography, on a subject approved by the Degree Committee.

2. At the discretion of the Examiners the examination may include an oral examination on the dissertation and on the general field of knowledge within which it falls.

Examination in Modern British History for the M.Phil. Degree: Correction

(*Statutes and Ordinances*, p. 502)

The General Board, on the recommendation of the Degree Committee for the Faculty of History, gives notice of a correction to the Notice published on 22 June 2016 (*Reporter*, 6431, 2015–16, p. 689). Regulation 1(c) should have read as follows:

- (c) two essays of not less than 3,000 and not more than 4,000 words in length, on topics chosen by the candidate and approved by the Degree Committee, which fall within the fields of study of the candidate's chosen optional courses; the list of optional courses offered shall be published by the Degree Committee not later than the start of the Michaelmas Term.

NOTICES BY FACULTY BOARDS, ETC.**Asian and Middle Eastern Studies Tripos, Part II, 2016–17****With effect from 1 October 2016**

The Faculty Board of Asian and Middle Eastern Studies gives notice of the following amendments to the Supplementary Regulations for the additional papers available for examination under Regulation 8.

SUPPLEMENTARY REGULATIONS

PART II

Additional papers available for examination under Regulation 8

By removing the current supplementary regulations for the following papers and by replacing them with revised supplementary regulations so as to read:

MES.37. History of the pre-modern Middle East

This paper examines in some detail aspects of the history of the Middle East, either in a particular region and period, or addressing particular themes.

MES.38. History of the modern Middle East

This paper examines in some detail the history of the modern Middle East since the 19th century, focusing on particular regions or themes.

The Faculty Board of Asian and Middle Eastern Studies is satisfied that no candidate's preparation for the examination in 2017 will be affected.

Management Studies Tripos, 2016–17

The Faculty Board of Business and Management gives notice that in the academical year 2016–17 the subjects for examination for the Management Studies Tripos will be as listed below. The method of examination is shown for each subject.

8. Scheme of examination (compulsory subjects)

M1 Marketing and organizational behaviour	Three-hour written examination Four questions to be answered; two from Section A (Organizational behaviour) and two from Section B (Marketing)
M2 Quantitative methods and operations management	Three-hour written examination Four questions to be answered; two from Section A (Quantitative methods) and two from Section B (Operations management)
M3 Economics and finance	Three-hour written examination Four questions to be answered; two from Section A (Economics); one from Section B(1) (Accounting), and one from Section B(2) (Finance)

9. Easter Term Group consultancy project

Project	Group-authored report of 6,000 words (70%), individual participation/presentation (30%) Deliverable to client: group presentation and summary
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10. Coursework (elective subjects – all students must choose two)

MSE7 Human resource management	Individual take-home essay (100%)
MSE8 Environment and sustainability	Individual take-home essay (100%)
MSE9 Business economics	Individual take-home essay (100%) <i>N.B. This elective is not available to students who have previously studied on the Economics Tripos</i>
MSE10 Topics in corporate governance	Individual take-home essay (70%), group presentation (30%)
MSE11 Business innovation in a digital age	Individual take-home essay (65%), individual presentation (10%), group presentation (25%)
MSE12 Strategic management	Individual take-home essay (100%)

10. Coursework (compulsory subject)

Negotiations workshop	Individual assignment (100%)
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Music Tripos, 2016–17: Correction

Further to the Notice published on 8 June 2016 (*Reporter*, 6429, 2015–16, p. 623), the Faculty Board of Music gives notice that the title of Paper 12 has been amended.

PART II

NEW REGULATIONS

Papers 8–17 Additional papers

from:

12. German funeral music from Schütz to Brahms

to:

12. Brahms's *Ein deutsches Requiem* in context

This paper is examined by a three-hour written examination.

The Faculty Board of Music is satisfied that no candidate's preparation for the examination will be affected.

Examination for the degree of Master of Business Administration, Michaelmas Term 2016

The Faculty Board of Business and Management gives notice that in the Michaelmas Term 2016 of the academical year 2016–17 the subjects for examination for the M.B.A. Degree will be as listed below. The method of examination is shown for each subject.

4. (a) One-year course

6. (a) Compulsory modules

Michaelmas Term 2016

Subject

MBA1 Microeconomics

MBA2 Management science

MBA4 Corporate finance

MBA5 Accounting

MBA 6 CVP research methods

MBA7 Organizational behaviour

MBA8 Management praxis

MBA 9 Cambridge venture project

MBA115 Entrepreneurship

MBA117 Corporate governance: an economic perspective

Form of assessment

Examination – 1 hour (100%)

Individual in-class test – 2.5 hours (100%)

Examination – 2 hours and 15 minutes' reading time (100%)

Examination – 2 hours and 15 minutes' reading time (100%)

Attendance only

Individual assignment – 2,500 words (60%), group assignment – 10-page slide deck and notes (40%)

Individual assignment – 3,000 words (100%)

Group assignment (100%)

Individual assignment – 3,000 words (100%)

Individual assignment – 3,000 words (100%)

Lent Term 2017

Subject

MBA10 Strategy

MBA11 Marketing

MBA34 Global consulting project

MBA16 Cost management and control

MBA116 Digital business

MBA33 Management praxis II

MBA12 Corporate governance and ethics

Form of assessment

Assessment to be announced by the end of Michaelmas Term

Assessment to be announced by the end of Michaelmas Term

Group assignment (100%)

Assessment to be announced by the end of Lent Term

Assessment to be announced by the end of Michaelmas Term

Assessment to be announced by the end of Michaelmas Term

Assessment to be announced by the end of Michaelmas Term

Easter Term 2017*Subject*

MBA15 Operations management
 MBA13 Leadership in action
 MBA54 Macroeconomics
 MBA35 Concentration

Form of assessment

Assessment to be announced by the end of Lent Term
 Attendance only
 Assessment to be announced by the end of Lent Term
 Students take one of the following eight subjects offered
 (all assessment to be announced by the end of Lent Term):
 MBA35A Cultural arts and media management
 MBA35B Energy and environment
 MBA35C Entrepreneurship
 MBA35D Healthcare strategies
 MBA35E Finance
 MBA35F Global business
 MBA35G Strategy and marketing
 MBA35H Social innovation

4 (c) Executive M. B. A. course**2015–2017 class****6. (a) Compulsory modules****Michaelmas Term 2016***Subject*

EMBA11 Managing innovation
 EMBA12 Managing strategy
 EMBA4 Management praxis (*this course runs throughout the programme*)
 EMBA17 Leadership in action (*this course runs throughout the programme*)

Form of assessment

Individual assignment (60%), group assignment (40%)
 Individual assignment (70%), group assignment (30%)
 Individual assignment (100%)

Attendance only

(b) Elective modules**Michaelmas Term 2016**

None

(c) Project work**Michaelmas Term 2016***Subject*

EMBA13 Team consulting project

Form of assessment

Attendance only

6. (a) Compulsory modules**Lent Term 2017***Subject*

EMBA14 Corporate governance and ethics
 EMBA4 Management praxis (*this course runs throughout the programme*)
 EMBA17 Leadership in action (*this course runs throughout the programme*)
 EMBA19 Personal and professional development
 (*this course runs throughout the programme*)

Form of assessment

Individual assignment (100%)
 Individual assignment (100%)

Attendance only

Attendance only

(b) Elective modules**Lent Term 2017***Subject*

Elective 1: EMBA15
 Elective 2: EMBA16

Form of assessment

Assessment to be announced by the end of Michaelmas Term
 Assessment to be announced by the end of Michaelmas Term

2016–2018 class**6. (a) Compulsory modules****Michaelmas Term 2016***Subject*

EMBA1 Analysis of financial reports (Accounting)

EMBA2 Corporate finance (*this course runs into Lent Term as well*)

EMBA3 Microeconomics

EMBA4 Management praxis (*this course runs throughout the programme*)

EMBA5 Management science

EMBA17 Leadership in action (*this course runs throughout the programme*)

EMBA19 Personal and Professional Development (*this course runs throughout the programme*)

Form of assessment

In-class test (20%), case write-up (20%), 1.5-hour written examination (60%)

Three group case write-ups (40%), 3-hour written examination (60%)

Attendance only

Individual assignment (100%)

Group assignment (50%), 1.5-hour written examination (50%)

Attendance only

Attendance only

(b) Elective modules**Michaelmas Term 2016**

None

6. (a) Compulsory modules**Lent Term 2017***Subject*

EMBA6 Organizational behaviour

EMBA7 Operations management

EMBA8 International business studies

EMBA17 Leadership in action (*this course runs throughout the programme*)

EMBA19 Personal and professional development (*this course runs throughout the programme*)

Form of assessment

Individual assignment (100%)

Individual assignment (100%)

Group assignment (100%)

Attendance only

Attendance only

(b) Elective modules**Lent Term 2017**

None

6. (a) Compulsory modules**Easter Term 2017***Subject*

EMBA6 Organizational behaviour

EMBA9 Macroeconomics

EMBA10 Marketing management

EMBA20 Negotiation skills

EMBA17 Leadership in action (*this course runs throughout the programme*)

EMBA19 Personal and professional development (*this course runs throughout the programme*)

Form of assessment

Individual assignment (100%)

Group assignment (25%), individual assignment (75%)

Group assignment (40%), 3-hour written examination (60%)

Attendance only

Attendance only

Attendance only

(b) Elective modules**Easter Term 2017**

None

Examination for the degree of Master of Finance, Michaelmas Term 2016

The Faculty Board of Business and Management gives notice that in the Michaelmas Term 2016 the subjects for examination for the Master of Finance Degree will be as listed below. The method of examination is shown for each subject.

Group 1 – Core subjects

(a) Written papers

MFIN29 Introduction to derivatives	2-hour class test (100%)
MFIN10 Economic foundations of finance	1.5-hour written examination (100%)
MFIN9 Principles of finance	2.5-hour written examination (100%)
MFIN7 Financial reporting and analysis	1-hour initial class test (35%), group case study write-up of 2,500 words maximum (35%), case study group work participation (10%), group in-class case study presentation (20%)
MFIN6 Financial institutions and markets	1.5-hour written examination (100%)

(b) Coursework

MFIN5 Management lecture series	Attendance only
MFIN22 Management practice	Attendance only
MFIN23 City speaker series	Attendance only

(c) Projects

MFIN24 Equity research project	Group project, assessed by group presentation (50%) and report of no more than 2,500 words (50%)
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Group 2 – Specialist subjects: there are no specialist subjects in Michaelmas Term 2016

Lent Term 2017

Group 1 – Core subjects

MFIN39 Fundamentals of credit	2-hour in-class test (60%), coursework – individual assignment (10%), and case study (30%)
MFIN3 Econometrics	2-hour mid-term test (40%), 2-hour final test (60%)

Examination in Bioscience Enterprise for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Bioscience Enterprise for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 483) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Science and Technology (ST) modules

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
ST1	Treating disease	Coursework
ST2	Drug discovery I	Coursework
ST3	Drug discovery II	Coursework
ST4	Diagnostics and devices	Coursework
ST5	Agbiotech	Coursework

Business (B) modules

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
B1, B2, and B3	Management of technology and innovation	Coursework
B4	Healthcare economics	Coursework
B5	Law and intellectual property	Coursework

Transitional (T) modules

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
T1	Company analysis I: partnerships and alliances	Coursework
T2	Company analysis II: finance and valuation	Coursework
T3	Building a bioscience enterprise I	Coursework
T4	Building a bioscience enterprise II	Coursework

Joint assessments

Several principal individual assessments cover material from multiple modules, and include written papers on selected topics in science and technology in business (each of 4,000 words maximum) and a business plan submission. These assessments are:

STB1	Science and technology in business, paper I
STB2	Science and technology in business, paper II
T5	Business plan

Coursework includes individual and/or group activities, to address one or a selected combination of report, critical appraisal, extended paper, or audio-visual presentation, and may include engagement in approved extracurricular activities.

All candidates are required to complete a dissertation of up to 10,000 words (Reference: E1) on a topic approved by the Degree Committee, and will give a presentation on the project work at a symposium (Reference: E2). A mark will also be given for 'Extramural participation and entrepreneurship' (Reference: T6), based on continuous assessment of factors such as students' displayed leadership qualities, publications, participation in business plan competitions, etc.

All Bioscience Enterprise modules, components, and lectures are mandatory.

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change.

Examination in Energy Technologies for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Energy Technologies for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 491) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Core courses (compulsory)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
ETA1	Energy topics	Coursework
ETA2	Revision of fundamentals	Coursework
ETB1	Clean fossil fuels	Coursework
ETB2	Renewables 1: wind, wave, tidal, and hydro	Coursework
ETB3	Renewables 2: solar and biofuels	Coursework

Electives (students must choose either five or seven depending on dissertation length)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
ETB4	Energy systems and efficiency	Coursework
4A2	Computational fluid dynamics	Coursework
4A3	Turbomachinery I	Coursework and examination
4A7	Aerodynamics	Coursework
4A9	Molecular thermodynamics	Examination
4A10	Flow instability	Examination
4A12	Turbulence and vortex dynamics	Examination
4A13	Combustion and IC engines	Examination
4B19	Renewable electrical power	Examination
4D13	Architectural engineering	Coursework
4E4	Management of technology	Coursework
4E11	Strategic management	Coursework
4I10	Nuclear reactor engineering	Examination
4I11	Advanced fission and fusion systems	Examination
4M16	Nuclear power engineering	Examination
4M18	Present and future energy systems	Examination
4M19	Advanced building physics	Coursework
5R10	Turbulent reacting flows	Coursework
5R18	Environmental fluid mechanics and air pollution	Coursework
B2	Catalysis	Examination
B3	Electrochemical engineering	Examination
B7	Particle technology	Examination

Research requirements

Each candidate who takes five electives must submit a thesis of up to 20,000 words on a subject approved by the Degree Committee; each candidate who takes seven electives must write a thesis of up to 10,000 words on a subject approved by the Degree Committee.

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change.

Examination in Engineering for Sustainable Development for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Engineering for Sustainable Development for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 491) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Inner core modules (mandatory)

Teaching to take place in Michaelmas Term 2016

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
ESD150	Driving change towards sustainability	Coursework
ESD200	Sustainability methods and metrics	Coursework

Teaching to take place in Michaelmas Term 2016 and Lent Term 2017

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
MOT&I	Management of technology and innovation	Coursework

Outer core modules (candidates must take at least two)¹

Teaching to take place in Lent Term 2017

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i> ²
ESD350	Sustainable buildings and built environments	Coursework
ESD450	Policy, legislation, and government	Coursework
ESD500	Sustainable design and implementation	Coursework
ESD650	International development	Coursework

Elective modules

Teaching to take place in Michaelmas Term 2016

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
4B19	Renewable electrical power	Examination ²
4D13	Architectural engineering	Coursework
4D16	Construction engineering	Examination ²
4E4	Management of technology	Coursework
4E6	Accounting and finance	Coursework
4M18	Present and future energy systems	Examination ²
4M19	Advanced building physics	Coursework
TP1	Technology policy: concepts and frameworks	Coursework
TPE23	Negotiation skills	Coursework
TPE25 ⁴	Strategic valuation uncertainty and real options in system design	Coursework
EP02 ⁴	Fundamentals of environmental economics	Coursework
ESD-A2	Sustainable architecture and urban design	Coursework

Teaching to take place in Lent Term 2017

ESD700 ^{3,5}	Infrastructure design of poor settlements in developing countries	Coursework
ESD900 ³	Management of resilient water systems	Coursework
4E5	International business economics	Coursework
4E11	Strategic management	Coursework
4G4	Biomimetics	Coursework
4I7/TEP22	Electricity and environment	Coursework
4M15	Sustainable energy	Coursework and examination ²
5R19	Earthquake engineering	Coursework
ETB2 ⁵	Renewable energy: wind, wave, tidal, and hydro	Coursework
ETB3 ^{5,6}	Renewable energy: solar and biomass	Coursework
ETB4 ⁵	Energy systems and efficiency	Coursework
TPE4 ⁷	Business, government, and technology in emerging markets	Coursework
TPE5	Policy, design, and evaluation	Examination (two hours)
TPE20	Management of the innovation process	Coursework
EP10 ⁴	Climate change policy and land development	Examination ²

¹ Two modules can be selected from the outer core as elective modules.

² All written examinations are of one and a half hours' duration unless otherwise specified.

³ Subject to numbers.

⁴ A cap will be placed of approximately five ESD students per module.

⁵ Provisional, and to be confirmed.

⁶ Lectures in both Michaelmas and Lent Terms (classed as Lent module).

⁷ Limited places available.

Research requirements

All candidates are required to submit a dissertation of up to 15,000 words on a topic approved by the Degree Committee.

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change.

Examination in Industrial Systems, Manufacture, and Management for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Industrial Systems, Manufacture, and Management for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 497) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Taught modules (all compulsory)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
MT1	Industrial systems	Coursework
MT2	Marketing and business strategy	Coursework
MT3	Overseas research project	Coursework
MT4	Manufacturing processes	Coursework

Projects (all compulsory)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
PR1	Induction project	Coursework
PR2	Industrial systems project	Coursework
PR3	Marketing and business strategy project	Coursework
PR4	Manufacturing processes and technology innovation management project	Coursework

Research requirement

All candidates must submit a thesis of not more than 15,000 words on a subject approved by the Degree Committee.

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change.

Examination in Machine Learning, Speech, and Language Technology for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Machine Learning, Speech, and Language Technology for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 500) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Compulsory modules

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
MLSALT1	Introduction to machine learning and spoken language processing	Coursework and examination
MLSALT2	Speech recognition	Coursework
MLSALT3	Weighted automata (<i>half</i>)	Examination
MLSALT4	Advanced machine learning	Coursework
MLSALT5	Speech and language processing applications (<i>half</i>)	Coursework
MLSALT6	Information theory (<i>half</i>)	Coursework
MLSALT7	Reinforcement learning and decision making (<i>half</i>)	Coursework
MLSALT8	Statistical machine translation (<i>half</i>)	Coursework
MLSALT9	Statistical spoken dialogue systems (<i>half</i>)	Coursework
MLSALT10	Statistical speech synthesis (<i>half</i>)	Coursework
MLSALT11	Speech and machine learning practicals (<i>one and a half</i>)	Coursework
4F10	Statistical pattern processing	Examination
4F13	Machine learning	Coursework

Elective modules (candidates must take one)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
4F1	Control system design	Coursework and examination
4F2	Robust and nonlinear systems and control	Examination
4F3	Optimal and predictive control	Examination
4F5	Advanced communications and coding	Examination
4F7	Digital filters and spectrum estimation	Examination
4F8	Image processing and image coding	Examination
4F12	Computer vision and robotics	Examination
4G3	Computational neuroscience	Coursework
4M17	Practical optimization	Coursework
4M20	Robotics	Coursework
L100	Introduction to natural language processing	Coursework
36	Topics in statistical theory	Examination

Note that some options are half modules, and that one is one and a half modules. This is indicated above in the module names.

Research

All candidates are required to submit a dissertation of up to 15,000 words on a topic approved by the Degree Committee.

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change.

Examination in Nuclear Energy for the M. Phil. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Nuclear Energy for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 505) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Compulsory core modules

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
NE1	Reactor physics	Examination
NE2	Reactor engineering and thermal-hydraulics (<i>double</i>)	Coursework and examination
NE5	Nuclear safety principles and practice (<i>half</i>)	Coursework and examination
NE6	Nuclear policy	Coursework
NE7	Nuclear practice (<i>half</i>)	Coursework

Other core modules (candidates must take at least one)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
NE3	Materials for nuclear energy	Examination
NE4	Fuel cycle, waste, and decommissioning	Examination
NE8	Computational reactor modelling	Coursework
NE9	Advanced reactors and fusion systems	Examination

Elective modules

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
4A2	Computational fluid dynamics	Coursework
4A3	Turbomachinery I	Coursework and examination
4B19	Renewable electrical power	Examination
4C4	Design methods	Examination
4C5	Design case studies	Coursework
4C7	Random and non-linear vibrations	Coursework and examination
4D7	Concrete structures	Coursework and examination
4D10	Structural steelwork	Coursework and examination
4D16	Construction management	Examination
4D17	Plate and shell structures	Coursework
4E4	Management of technology	Coursework
4E5	International business economics	Coursework

4E6	Accounting and finance	Coursework
4E11	Strategic management	Coursework
4F1	Control system design	Coursework and examination
4F2	Robust and nonlinear systems and control	Examination
4F12	Computer vision and robotics	Examination
4I8	Medical physics	Examination
4M12	Partial differential equations and variational methods	Examination
4M15	Sustainable energy	Coursework and examination
4M17	Practical optimization	Coursework
ESD500	Sustainable design and implementation	Coursework
B3	Electrochemical engineering	Examination
B4	Fluid mechanics and environment	Examination
TP1	Introduction to technology policy	Coursework
TP2	Economic foundations of technology policy	Coursework
TP4	Policy, design, and evaluation	Coursework
TPE6	Strategic valuation uncertainty and real options in system design	Coursework
TPE7	Political economy of technology policy	Coursework
TPE10	Management of the innovation process	Coursework
M3	Extraction and recycling	Examination
M15	Corrosion and protection	Examination
M16	Atomistic materials modelling	Examination
M21	Steels	Examination
PNP	Particle and nuclear physics/comp physics	Examination

Note that some options are half modules, and one is a double module. This is indicated above in the module names.

Research

All candidates are required to submit a dissertation of up to 15,000 words on a topic approved by the Degree Committee.

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change.

Examination in Sociology for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Human, Social, and Political Science gives notice that the topic titles available to candidates studying the one-year course in Sociology for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 510) in the academical year 2016–17 will be as follows:

Media and culture
 Health and illness
 Sociology of reproduction
 Foundations of political and economic sociology
 Global economic and political transformations
 Critiques of global capitalism

Examination in Future Infrastructure and Built Environment for the M.Res. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Future Infrastructure and Built Environment for the degree of Master of Research (*Statutes and Ordinances*, p. 515) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Core modules (all compulsory)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
CM1	Civil engineering theory	Coursework
CM2	Civil engineering research methods	Coursework
CM3	Multi-disciplinarity in civil engineering	Coursework
E Tech	Introduction to entrepreneurship	Coursework

Elective modules (two to be chosen in consultation with the Course Director)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
4C6	Advanced linear vibrations	Coursework and examination
4C7	Random and non-linear vibrations	Coursework and examination
4C9	Continuum mechanics	Examination
4D4	Construction engineering	Coursework
4D5	Foundation engineering	Coursework and examination
4D7	Concrete structures	Coursework and examination
4D10	Structural steelwork	Coursework and examination
4D13	Architectural engineering	Coursework
4D15	Sustainable water engineering	Coursework
4D16	Construction management	Examination
4D17	Plate and shell structures	Coursework
4F8	Image processing and image coding	Examination
4F12	Computer vision and robots	Examination
4G4	Biomimetics	Coursework
4M12	Partial differential equations and variational methods	Examination
4M14	Sustainable development	Coursework
4M15	Sustainable energy	Coursework and examination
4M16	Nuclear power engineering	Examination
4M17	Practical optimization	Coursework
4M18	Present and future energy systems	Examination
4M19	Advanced building physics	Coursework
5R5	Advanced experimental methods in geomechanics	Coursework
5R13	Experimental methods in mechanics	Coursework
5R14	Nonlinear solid mechanics	Coursework
5R19	Earthquake engineering	Coursework
EP10	Climate change policy and land development	Examination

Research

All candidates are required to complete a desktop study (DS), a mini-project (MP), a group project (GP), and an M.Res. dissertation of up to 12,000 words on a topic approved by the Degree Committee.

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change.

Examination in Gas Turbine Aerodynamics for the M.Res. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Gas Turbine Aerodynamics for the degree of Master of Research (*Statutes and Ordinances*, p. 515) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Core modules

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
GTA1	Advanced gas turbine aerodynamics	Examination
GTA2	Turbomachinery aerodynamic design process	Coursework
GTA3	Experimental methods	Coursework
GTA4	Researcher skills	Coursework

Elective modules

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
4A2	Computational fluid dynamics	Coursework
4A3	Turbomachinery I	Coursework and examination
4A7	Aerodynamics	Coursework
4A9	Molecular thermodynamics	Examination
4A15	Aeroacoustics	Examination
4B19	Renewable electrical power	Examination
4E4	Management of technology	Coursework
4E6	Accounting and finance	Coursework
4F1	Control system design	Coursework and examination
4M15	Sustainable energy	Coursework
4M17	Practical optimization	Coursework
4M18	Present and future energy systems	Examination
4I7	Electricity and environment	Coursework

Research

All candidates are required to complete three mini-projects:

MP1	Combustor aerodynamics
MP2	Compressor aerodynamics
MP3	Turbine aerodynamics and heat transfer

All candidates are furthermore required to complete two industry courses:

IC1	Holistic gas turbine design
IC2	Gas turbine build

Finally, all candidates are required to complete a Ph.D. proposal dissertation of up to 12,000 words on a topic approved by the Degree Committee.

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change.

Examination in Graphene Technology for the M.Res. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Graphene Technology for the degree of Master of Research (*Statutes and Ordinances*, p. 516) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Core modules (all compulsory)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
GRM1	Technology of graphene, related layered materials, and hybrid systems	Examination
GRM2	Science of graphene, related layered materials, and hybrid systems	Examination
GRM3	Flexible electronics	Examination
NT01	Characterization techniques	Examination
NT04	Nanofabrication techniques	Examination
NT07	Physics at the nanometre-scale	Examination

Research

All candidates are required to complete thirty research skills sessions (reference: RSS) and two mini-projects (reference: MP1 and MP2).

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change.

Examination in Integrated Photonic and Electronic Systems for the M.Res. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Integrated Photonic and Electronic Systems for the degree of Master of Research (*Statutes and Ordinances*, p. 516) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Biophysics

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
4B5	Nanotechnology	Coursework and examination
4G2	Biosensors	Coursework
UCLAPD	Advanced photonic devices	Examination
UCLPON	Physics and optics of nano-structure	Coursework and examination

Photonic systems

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
4B11	Photonic systems	Examination
UCLPSS	Photonic sub-systems	Examination
UCLBTC	Broadband technologies and components	Examination

Business

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
4E4	Management of technology	Coursework
4E11	Strategic management	Coursework
UCLTBE	Telecommunication business environment	Coursework

Electives

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
4B6	Solid state devices and chemical/biological sensors	Examination
4B20	Display technology	Examination
4B21	Analogue integrated circuits	Examination
4F2	Robust and nonlinear systems and control	Examination
4F5	Advanced communications and coding	Examination
4F7	Digital filters and spectrum estimation	Examination
4F8	Image processing and image coding	Examination
4F12	Computer vision and robotics	Examination
P33	Building an internet router	Coursework
R02	Network architecture	Coursework
UCLSNS	Software for network devices	Coursework
UCLOTN	Optical transmission and networks	Examination
UCLNH	Nanotechnology and healthcare	Examination
UCLRCS	RF circuits and sub-systems	Coursework and examination
UCLPON	Physics and optics of nano-structure	Coursework and examination
UCLBCL	Broadband communications lab	Coursework
UCLEEM010	Analogue CMOS IC design and applications	Coursework

Research

All candidates are required to complete two project reports (references: MP1 and MP2).

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate's preparation for the examination will be affected by the change. All modules beginning 'UCL' are provided and examined by University College, London.

Examination in Sensor Technologies and Applications for the M.Res. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Sensor Technologies and Applications for the degree of Master of Research (*Statutes and Ordinances*, p. 518) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Core modules (all compulsory)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
STA1	Principles of sensing	Coursework
STA2	Guided sensor design project	Coursework
ETech	Introduction to entrepreneurship	Coursework

Elective modules (three to be chosen in consultation with the Course Director)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
2/BP	Biological physics	Examination
4B5	Nanotechnology	Coursework and examination
4B6	Solid state devices and chemical/biological sensors	Examination
4B11	Photonic systems	Examination
4B22	Flexible electronics	Examination
4C3	Electrical and nano materials	Examination
4C15	MEMS design	Coursework and examination
4E12	Project management	Coursework
4F8	Image processing and image coding	Examination
4G2	Biosensors	Coursework
4M20	Robotics	Coursework

B5	Optical imaging and microscopy	Examination
IDP1	Atmospheric chemistry and global change	Examination
MLSALT4	Advanced machine learning	Coursework
NT01	Nanotechnology characterization techniques	Examination
NT08	Bionanotechnology	Examination
R214	Biomedical information processing	Coursework

Research

All candidates are required to complete an individual mini-project report (reference: MP1) and a ‘Sensor Team Challenge’ project report (reference: GP1).

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate’s preparation for the examination will be affected by the change.

Examination in Ultra Precision Engineering for the M.Res. Degree, 2016–17

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Ultra Precision Engineering for the degree of Master of Research (*Statutes and Ordinances*, p. 518) in the academical year 2016–17, and the form of examination of each module, will be as follows:

Compulsory modules

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
CRA1	Precision engineering	Coursework
CRA2	Metrology and optical testing	Coursework
P3	Energy beam micro processing	Coursework
TIM	Technology and innovation management	Examination
FOM	Fundamentals of metrology	Coursework

Laboratory classes (all compulsory)

<i>Reference</i>	<i>Name</i>	<i>Mode of assessment</i>
LAB1	Roll to roll fabrication laboratory class	Coursework
LAB2	Laser machining laboratory class	Coursework
LAB3	Practical metrology laboratory class	Coursework
LAB4	FIB/SEM laboratory class	Coursework
CRA3	Reactive atom plasma laboratory class	Coursework
CRA4	Modal analysis laboratory class	Coursework
CRA5	Test and measurement laboratory class	Coursework
CRA6	Single point diamond turning laboratory class	Coursework

Research

All candidates are required to complete two project reports (reference: RP1 and RP2), and must participate in the Advanced Manufacturing Technologies Reading Club (reference: RC13).

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2016, provided that no candidate’s preparation for the examination will be affected by the change.

CLASS-LISTS, ETC.

Approved for degrees

This content has been removed as it contains personal information protected under the Data Protection Act.

GRACES**Graces submitted to the Regent House on 27 July 2016**

The Council submits the following Graces to the Regent House. These Graces, unless they are withdrawn or a ballot is requested in accordance with the regulations for Graces of the Regent House (*Statutes and Ordinances*, p. 107), will be deemed to have been approved at 4 p.m. on Friday, 5 August 2016.

1. That the rules for the Cambridge University Assistants Contributory Pension Scheme be amended as set out in the Council's Notice dated 25 July 2016 (p. 794).
2. That, with effect from 1 October 2016, in Regulation 3(f) of the regulations for Payments to Examiners and Assessors (*Statutes and Ordinances*, p. 249) the words 'or Assessor' be removed from the following sentence:¹

For acting as an Examiner or Assessor £110

¹ The General Board is proposing this amendment to remove the payment for acting as an Assessor in examinations for the M.Phil. Degree by advanced study.

ACTA**Approval of Graces submitted to the Regent House on 13 July 2016**

Graces 1–2 and 4–16 of 13 July 2016, submitted to the Regent House on 13 July 2016 (*Reporter*, 6433, 2015–16, p. 783), were approved at 4 p.m. on Friday, 22 July 2016. Grace 3 of 13 July 2016 will be subject to a ballot to be held in Michaelmas Term 2016 (see the Notice on p. 794).

Congregation of the Regent House on Thursday, 23 June 2016: Correction

This content has been removed as it contains personal information protected under the Data Protection Act.

Congregation of the Regent House on 15 July 2016

A Congregation of the Regent House was held at 10 a.m. All of the Graces submitted to the Regent House (*Reporter*, 6433, 2015–16, p. 786) were approved.

The following degrees were conferred:

This content has been removed as it contains personal information protected under the Data Protection Act.

Congregation of the Regent House on 16 July 2016

A Congregation of the Regent House was held at 10 a.m. All of the Graces submitted to the Regent House (*Reporter*, 6433, 2015–16, p. 786) were approved.

The following degrees were conferred:

This content has been removed as it contains personal information protected under the Data Protection Act.

Degree of Bachelor of Surgery: Supplementary list

This content has been removed as it contains personal information protected under the Data Protection Act.

J. W. NICHOLLS, *Registrar*

END OF THE OFFICIAL PART OF THE 'REPORTER'

COLLEGE NOTICES

Awards and Prizes

Queens' College: A list of distinctions and prizes awarded for the 2015–16 academic year is available on the Queens' College website at: <http://www.queens.cam.ac.uk/teaching-learning/distinctions-and-awards/undergraduate-college-prizes-and-awards/prizes-2016>

Elections

Corpus Christi College

Elected to a non-stipendiary Research Fellowship in Medical Sciences, in Class B, for a period of three years with effect from 1 October 2016:

Dr Sam Behjati, M.A., B.M.B.Ch., Ph.D., MRCPCH

Elected to a Fellowship in Chemistry in Class F, to start on 1 October 2016 and to end co-terminously with his Herchel Smith Fellowship (in November 2019):

Dr Sebastian Pike, D.Phil., M.Chem.

Elected to a Microsoft Research Fellowship in Class B, for two years with effect from 1 October 2016:

Ioan Stefanovici, Ph.D., M.Sc., H.B.Sc.

Pembroke College

Admitted to a Supernumerary Fellowship, with effect from 17 May 2016:

Richard Charles Henry Webb, M.A., M. Math., T, Ph.D., Warwick

St John's College

Elected to an Honorary Fellowship:

Sir Harpal Singh Kumar

Wolfson College

Elected to an Official Fellowship (Title C) from 1 June 2016:

Kirsty Allen, M.A., M.Litt., Ph.D., *St Andrews*, M.A.
James Gazzard, B.Sc., *Cardiff*, Ph.D., *Nottingham*,
M.B.A., *Stirling*, P.G.Cert.Vet.Ed., *London*, FHEA
Martin Vinnell, B.Sc., Ph.D., *Essex*, M.A., FRSB,
FISTR

Elected to a Junior Research Fellowship (Title BI) from 1 October 2016:

Bashar Ahmad, B.Eng., P.G.Cert., Ph.D., *Westminster*
Boyd Brogan, B.Mus., *University College, Cork*,
B.A., *W*, M.St., D.Phil., *Oxford*

Rachel Holmes, M.A., M.Litt., Ph.D., *St Andrews*
Marie Kent, B.A., M.A., Ph.D., *London Metropolitan*
Adeeba Khan, LL.B., M.A., Ph.D., *SOAS*
Mary-Ann Middelkoop, Drs., *Utrecht*, M.Sc., *LSE*
Iyad Nasrallah, M.Eng., *York*, Ph.D., *W*
Benjamin Pingault, DEUG, *Aix-Marseille III*,
Magistère, *Paris-Sud*, Diplôme d'Ingénieur, *ESPCI*
ParisTech, Ph.D., *PEM*

Marco Ranzani, B.Sc., M.Sc., *Milan*, Ph.D., *San*
Raffaele Vita-Salute University/Open

Marina Steur, B.Sc., M.Sc., *Wageningen*, M.Phil., *CTH*

Vacancies

College Research Fellowships

A number of Cambridge Colleges propose to hold competitions for Research Fellowships tenable from the start of the academic year 2017–18 with closing dates for application on or near 1 October 2016. Advertisements will appear online at <http://www.jobs.cam.ac.uk/college/> not later than 31 August 2016. Advertisements for competitions with a later closing date will normally appear in the *Cambridge University Reporter* and the *Oxford University Gazette* as well as online, not less than 28 days before the closing date.

Christ's College: Two Stipendiary Junior Research Fellowships in a specified area of Arts, Humanities, and Social Sciences; tenure: four years; closing date: 27 October 2016 at 12 noon; further details: <http://www.christs.cam.ac.uk/jrf>

Non-Stipendiary Junior Research Fellowship in any subject; tenure: at least two years and not more than four years; closing date: 16 February 2017 at 12 noon; further details: <http://www.christs.cam.ac.uk/jobs>

Stipendiary Junior Research Fellowship supported by the Todd-Croucher Fund in Science, Technology, or Medicine, for candidates with the status of permanent resident of Hong Kong; tenure: four years; closing date: 27 October 2016 at 12 noon; further details: <http://www.christs.cam.ac.uk/jobs>

Jesus College: Junior Research Fellowships – two in Arts and one in Science; tenure: three years, fixed-term; salary: from £20,989; closing date: 23 August 2016; further details: <http://www.jesus.cam.ac.uk/fellows-staff/vacancies/>

Queens' College: Junior Research Fellowship in Mathematics; to commence on 1 October 2017; stipend: starting at £21,605 plus benefits; closing date: 2 September 2016 at 12 noon; further details: <http://www.queens.cam.ac.uk/general-information/vacancies>

Junior Research Fellowship, open to graduates who are members of Queens' College, engaged in research in any field; to commence on 1 October 2017; stipend: up to £21,605 plus benefits; closing date: 2 September 2016 at 12 noon; further details: <http://www.queens.cam.ac.uk/general-information/vacancies>

St Edmund's College: College Administrator (full-time); salary: £34,818; further details: <http://www.st-edmunds.cam.ac.uk/vacancies/college-administrator>

Master's Personal Assistant (part-time – 20 hours per week); salary: £15,359 (£28,030 FTE); further details: <http://www.st-edmunds.cam.ac.uk/vacancies/masters-personal-assistant>

Trinity Hall: Postdoctoral Research Associateships (up to ten posts); tenure: usually two years, as from October 2016, and co-terminous with postdoctoral employment; benefits: the normal privileges and facilities of the College that are available to graduate students, with certain limited exceptions; small annual fee payable by Postdoctoral Research Associate; closing date: 5 September 2016; application forms and further details: <http://www.trinhall.cam.ac.uk/about/vacancies/>

OTHER NOTICES**Ita Askonas Bursaries**

Ita Askonas Bursaries are intended to allow postdoctoral researchers working in the fields of infection and immunology to pursue specific research projects or networking opportunities at another institution, and are particularly intended to promote reciprocal interactions between Cambridge and the Francis Crick Institute Mill Hill Laboratory (previously known as NIMR), and with the partners involved in the Francis Crick Institute.

The Management Committee of the fund now invites applications for the next round of the bursary scheme. Any postdoctoral researcher employed by the University working in the fields of infection and immunology is eligible to apply, but preference will be given to early career researchers who have already identified collaborative opportunities with the relevant partner institutions.

The closing date for applications is 15 August 2016. Further information can be found at: <https://www.path.cam.ac.uk/ita-askonas-bursaries.html>.

EXTERNAL NOTICES**University of Oxford**

Faculty of Classics: Wykeham Professorship of Ancient History; closing date: 19 September 2016; further details: <https://www.ox.ac.uk/about/jobs/academic/index/>

Oriel College: Stipendiary Lectureship in Cellular Physiology or Neuroscience; closing date: 22 August 2016; further particulars: <http://www.oriel.ox.ac.uk/content/academic-vacancies>

St Hilda's College: Governing Body Secretary (part-time); tenure: three years from 1 October 2016 (or earlier); £38,896–£46,414 *pro rata*; closing date: 1 September 2016 at 12 noon; further details: <http://www.st-hildas.ox.ac.uk/content/governing-body-secretary-part-time>

University College: Stipendiary Lectureships (two) in Physics; tenure: fixed term for two years; stipend: £8,590–£9,661, plus benefits; closing date: 1 August 2016 at 12 noon; further details: <http://www.univ.ox.ac.uk/content/stipendiary-lectureships-physics-two>

Notices for publication in the *Reporter*, or queries concerning content, should be sent to the Editor, Cambridge University Reporter, Registry's Office, The Old Schools, Cambridge, CB2 1TN (tel. 01223 332305, email reporter.editor@admin.cam.ac.uk). Copy should be sent as early as possible in the week before publication; short notices will be accepted up to **4 p.m. on Friday** for publication the following Wednesday. Inclusion of notices is at the discretion of the Editor.

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