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UNIVERSITY OF
CAMBRIDGE

NOTICES

Calendar

23 July, *Saturday*. Congregation of the Regent House at 11 a.m.

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

12 September, *Monday*. Library closes.

19 September, *Monday*. Library re-opens.

The ordinary issues for the remainder of the 2010–11 academic year will be published on **20 July**, **27 July**, and **3 August**.

Notice of a benefaction

11 July 2011

The Vice-Chancellor gives notice that he has received with gratitude a generous benefaction of £2m from the Kirby Laing Foundation to form an endowment to support the Professorship of Engineering (Grace 6 of 1 December 1965).

The Council, on the recommendation of the General Board, is submitting a Grace to rename the Professorship as the Sir Kirby Laing Professorship of Civil Engineering (Grace 1, p. 1004) in recognition of this donation and to approve regulations to govern the proposed endowment. Professor R. J. Mair, who currently holds the Professorship, has been consulted and concurs with the change in title.

Government Higher Education White Paper: Notice

11 July 2011

The Government published its Higher Education White Paper ('Students at the Heart of the System') on 28 June 2011 and has invited comments on the proposals. (See <http://discuss.bis.gov.uk/hereform/>.) The White Paper consultation period will run until 20 September 2011.

The Council, in its Notice concerning Grace 3 of the 15 June 2011, stated that it would 'wish to ensure that, through a process of effective consultation with the Regent House, it is able to submit a considered response to the proposals in the White Paper that takes account of the full range of views of members of the Regent House and which would be published within the University'. Members and staff of the University and Colleges are invited to submit comments, which will inform the Council's deliberations on these important matters, via the discussion link on the University Forum at <https://forum.cam.ac.uk/viewtopic.php?f=27&t=5112>. Comments may also be sent to the Registry, The Old Schools, Trinity Lane (email Registry@admin.cam.ac.uk).

This internal consultation will end on 6 September 2011 in order to allow the Council properly to consider all submissions in formulating a response by the Government's deadline. The Council has agreed that there should be a special Discussion of the Regent House that day to conclude the consultation.

Individual responses directly to the Department for Business, Innovation and Skills (BIS) via the web address cited above are also encouraged.

The BIS website also gives information about other consultation documents as follows:

Consultation timetable

- 28 June 2011: Early Repayment consultation launches (<http://discuss.bis.gov.uk/hereform/early-repayment/>) – deadline for comments: 20 September 2011.
- 30 June 2011: HEFCE Teaching Funding and Student Number Controls consultation launches (http://hefce.ac.uk/pubs/hefce/2011/11_20/) – deadline for comments: 22 September 2011.
- August 2011: Regulatory Framework consultation launches – deadline for comments: October 2011.

Ballots on Graces 6–13 of 26 May 2011 and Grace 3 of 15 June 2011: Notice

Members of the Regent House are reminded that two ballots will be conducted during July and August.

Graces 6–13 of 26 May 2011

(see *Reporter*, 2010–11, pp. 785 and 899)

Voting papers and fly-sheets have been distributed to all members of the Regent House and must be returned by **5 p.m. on Friday, 12 August**. Ballot papers received after that time will be invalid.

Grace 3 of 15 June 2011

(see *Reporter*, 2010–11, p. 934)

Voting papers and fly-sheets will be distributed by Thursday, 14 July; please note the deadline for the return of ballot papers on this Grace is **5 p.m. on Monday, 25 July**. Ballot papers received after that time will be invalid.

VACANCIES, APPOINTMENTS, ETC.

Vacancies in the University

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

Director of Education (part-time) in the Faculty of Biology; tenure: five years; salary: £64,379; closing date: 1 August 2011; further particulars: <http://www.admin.cam.ac.uk/offices/hr/jobs/vacancies.cgi?job=8462>; quote reference: ZZ08462

University Lectureship in the Department of Biochemistry; salary: £36,862–£46,696; closing date: 31 July 2011; further particulars: <http://www.admin.cam.ac.uk/offices/hr/jobs/vacancies.cgi?job=8418>; quote reference: PH08418

University Lectureship (Non-Clinical) PHSA-Engage Mutual Health in the School of Clinical Medicine; salary: £36,862–£46,696; closing date: 7 August 2011; further particulars: <http://www.admin.cam.ac.uk/offices/hr/jobs/vacancies.cgi?job=8453>; quote reference: RA08453

Three Clinical Lectureships in the School of Clinical Medicine; salary: £30,992–£53,663; tenure: four years; closing date: 1 August 2011; further particulars: <http://www.admin.cam.ac.uk/offices/hr/jobs/vacancies.cgi?job=8413>; quote reference: RA08413

Research Analyst – EPMA in the Department of Earth Sciences; salary: £27,428–£35,788; closing date: 28 July 2011; further particulars: <http://www.admin.cam.ac.uk/offices/hr/jobs/vacancies.cgi?job=8432>; quote reference: LB08432

Assistant Finance Manager (School of Clinical Medicine) in the Finance Division; salary: £27,428–£35,788; closing date: noon, 25 July 2011; further particulars: <http://www.admin.cam.ac.uk/offices/hr/jobs/vacancies.cgi?job=8452>; quote reference: AG08452

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.

Any job application submitted with a *curriculum vitae* should be accompanied by a Cover Sheet for Employment (form CHRIS/6) which can be downloaded from <http://www.admin.cam.ac.uk/offices/hr/forms/chris6/>, or may be obtained in hard copy from the advertising Department or Faculty.

CRASSH Fellowship Competitions, 2012–13: Notice

CRASSH Visiting Fellowships

The Visiting Fellowships support the Centre's thematic activities, responding to the need to approach 'regionality' from a humanities perspective. Full details are available at <http://www.crassh.cam.ac.uk/page/15/vf-competition-2012-13.htm>.

Charles Wallace India Trust Visiting Fellowship

CRASSH's Charles Wallace India Trust Visiting Fellowship is intended to support earlier-career academics from India with an emphasis on disciplinary innovation and cross-disciplinary enquiry. Full details are available at <http://www.crassh.cam.ac.uk/page/799/charles-wallace-india-trust-visiting-fellowship.htm>.

The deadline for both competitions is 12 p.m. on Monday, 31 October 2011.

Election, appointments, reappointments, and grants of title

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

ELECTION

Dr Roberto Maiolino, B.Sc., Ph.D., *Florence*, Associate Astronomer, Astronomical Observatory of Rome, National Institute for Astrophysics, elected Professor of Experimental Astrophysics with effect from 27 February 2012.

APPOINTMENTS

University Lecturers

Economics. Dr Guilherme Manuel Barreto Belo Carmona, K, B.Sc., *Catolica Portuguesa*, Ph.D., *Minnesota*, and Dr Robert Pontus Karner Rendahl, B.A., M.A., *Lund*, M.Sc., Ph.D., *EUI*, appointed from 1 September 2011 until the retiring age and subject to a probationary period of five years.

History. Dr Christopher Daniel Briggs, M.Phil., Ph.D., *T*, B.A., *Oxford*, appointed from 1 October 2011 until the retiring age and subject to a probationary period of five years.

Head of Department

Chemistry. Professor Daniel Frenkel, *T*, appointed from 1 October 2011 to 30 September 2015.

Computer Officer

Clinical Medicine. Mr Jon Holgate, B.A., *Central England*, M.Sc., *De Montfort*, appointed from 1 June 2011 until the retiring age.

REAPPOINTMENTS

Deputy Heads of Department

Physics. Professor Michael Parker, *PET*, reappointed from 1 October 2011 to 30 September 2014; Professor David Ritchie, *R*, reappointed from 1 October 2011 to 30 September 2013.

GRANTS OF TITLE

Affiliated Lecturers

Plant Sciences. Dr Peter David Carey, Professor Johnathan Andrew Napier, and Dr Drew W. Purves have been granted the title of Affiliated Lecturer from 1 October 2011 for a further two years.

AWARDS, ETC.

Scholarships and Prizes, etc. awarded

The **Sir Albert Howard Travel Exhibition**, 2011, has been awarded to E. Muiruri, *N*, A. Tindall, *K*, and A. White, *EM*.

Isaac Newton Studentships. A. R. Solomon, *W*, and A. Stroe, *N*, have been elected to Studentships for 2011–12.

Ridgeway-Venn Travel Studentships. M. Hernandez, *DOW*, and E. Oras, *W*, have been elected to Studentships for 2011–12.

J. B. Trend Fund. Grants have been awarded to the following for 2011:

P. J. Bou, <i>T</i>	S. C. Loh, <i>TH</i>
A. M. Coopman, <i>Q</i>	H. A. Picot, <i>DOW</i>

Correction: The **Wallenberg Prize**, 2011 (*Reporter*, 2010–11, p. 906), has been awarded, jointly, to M. M. Höijer, *HH*, and G. L. Walkden, *CL*.

Anthony Wilkin Fund. Grants for 2011 have been awarded to:

L. Cadwallader, <i>F</i>	F. Rivera, <i>DAR</i>	R. J. Wallduck, <i>JE</i>
K. A. Felder, <i>CTH</i>	B. Terbish, <i>DAR</i>	

Not awarded: **Chancellor's Medal for an English Poem**, 2011.

EVENTS, COURSES, ETC.

Lectures, seminars, events, etc.

The University offers a large number of lectures, seminars, and other events, many of which are free of charge, to members of the University and others who are interested. Details can be found on Faculty and Departmental websites, and in the following resources.

The What's On website (<http://www.admin.cam.ac.uk/whatson/>) carries details of exhibitions, music, theatre and film, courses, and workshops, and is searchable by category and date. Both an RSS feed and a subscription email service are available.

Talks.cam (<http://www.talks.cam.ac.uk/>) is a fully searchable talks listing service, and talks can be subscribed to and details downloaded.

Brief details of upcoming events are given below.

<i>Fitzwilliam Museum</i>	Flower Drawings: Redouté and his pupils	http://www.fitzmuseum.cam.ac.uk/whatson/exhibitions/article.html?2896
	Splendour and power: imperial treasures from Vienna	http://www.fitzmuseum.cam.ac.uk/whatson/exhibitions/article.html?2794
	Treasure under your feet	http://www.fitzmuseum.cam.ac.uk/article.html?2824
<i>Kettle's Yard</i>	Von Ribbentrop in St Ives: art and war in the last resort	http://www.kettlesyard.co.uk/exhibitions/ribbentrop.html

NOTICES BY THE GENERAL BOARD

University-wide statement on plagiarism: Notice

6 July 2011

The General Board has amended its statement on plagiarism (*Statutes and Ordinances*, p. 199) to clarify that plagiarism may occur irrespective of intent to deceive, and that sanctions include deprivation of a degree. The revised statement is set out below.

UNIVERSITY-WIDE STATEMENT ON PLAGIARISM

The General Board, with the agreement of the Board of Examinations and the Board of Graduate Studies, has issued this guidance for the information of candidates, Examiners, and Supervisors. It may be supplemented by course-specific guidance from Faculties and Departments.

Plagiarism is defined as submitting as one's own work, irrespective of intent to deceive, that which derives in part or in its entirety from the work of others without due acknowledgement. It is both poor scholarship and a breach of academic integrity.

Examples of plagiarism include **copying** (using another person's language and/or ideas as if they are a candidate's own), by:

- **quoting verbatim** another person's work without due acknowledgement of the source;
- **paraphrasing** another person's work by changing some of the words, or the order of the words, without due acknowledgement of the source;
- **using ideas** taken from someone else without reference to the originator;
- **cutting and pasting** from the Internet to make a pastiche of online sources;
- **submitting someone else's work** as part of a candidate's own without identifying clearly who did the work. For example, buying or commissioning work via professional agencies such as 'essay banks' or 'paper mills', or not attributing research contributed by others to a joint project.

Plagiarism might also arise from **colluding** with another person, including another candidate, other than as permitted for joint project work (i.e. where collaboration is concealed or has been forbidden). A candidate should include a general acknowledgement where he or she has received substantial help, for example with the language and style of a piece of written work.

Plagiarism can occur in respect to all types of sources and media:

- text, illustrations, musical quotations, mathematical derivations, computer code, etc;
- material downloaded from websites or drawn from manuscripts or other media;
- published and unpublished material, including lecture handouts and other students' work.

Acceptable means of acknowledging the work of others (by referencing, in footnotes, or otherwise) vary according to the subject matter and mode of assessment. Faculties or Departments should issue written guidance on the relevant scholarly conventions for submitted work, and also make it clear to candidates what level of acknowledgement might be expected in written examinations. Candidates are required to familiarize themselves with this guidance, to follow it in all work submitted for assessment, and may be required to sign a declaration to that effect. If a candidate has any outstanding queries, clarification should be sought from her or his Director of Studies, Course Director or Supervisor as appropriate.

Failure to conform to the expected standards of scholarship (e.g. by not referencing sources) in examinations may affect the mark given to the candidate's work. In addition, suspected cases of the use of unfair means (of which plagiarism is one form) will be investigated and may be brought to one of the University's Courts. The Courts have wide powers to discipline those found guilty of using unfair means in an examination, including depriving such persons of membership of the University, and deprivation of a degree.

NOTICES BY FACULTY BOARDS, ETC.

English Tripos, 2012: texts and topics

The Faculty Board of English give notice that the following texts, periods, and portions of subjects are for special study for the English Tripos, 2012 (*Statutes and Ordinances*, p. 318).

Unless otherwise stated, editions of texts are not specified.

PART I

Paper 1. English literature and its contexts, 1300–1550

Set texts and specified topics

Specified text for translation: *Sir Gawain and the Green Knight*, ed. J. R. R. Tolkien and E. V. Gordon, rev. N. Davis, (Oxford, 1967), lines 1998–2530;

Specified texts for commentary: Geoffrey Chaucer, *Troilus and Criseyde*, ed. B. A. Windeatt (Penguin) or in *The Riverside Chaucer*, gen. ed. Larry D. Benson (Oxford, 1987), Book 2, Lines 1–931;

William Langland, *The Vision of Piers Plowman*, (B Text), ed. A. V. C. Schmidt, second edition (London, 1995), Passus XVIII–XIX.

Topics on which optional questions will be set:

Violence; Nature and the Wild.

- Paper 5. *Shakespeare*
Troilus and Cressida
 Paper 6. *Practical criticism and critical practice*
 Paper 7. *European languages and literatures*

Classical Greek**Set texts for Sections A and B**

Plato: *On Poetry*, ed. Penelope Murray (Cambridge Greek and Latin Classics, 1996)

Sophocles: *Antigone*, ed. Mark Griffith (Cambridge Greek and Latin Classics, 1999)

Recommended text for Section C

Homer: *Iliad*, Book 24, ed. C. W. Macleod (Cambridge Greek and Latin Classics, 1982)

Classical Latin**Set texts for Sections A and B**

Virgil: *Aeneid*, VI

Horace: Odes 1.1, 1.4, 1.5, 1.9, 1.12, 1.22, 1.37, 2.14, 2.20, 3.1, 3.13, 3.30, 4.1, 4.5, 4.7, 4.15.

Recommended text for Section C

A Faculty online anthology of Latin verse: <http://www.english.cam.ac.uk/undergraduate/local/part1/extra/paper07/latin/frameset.htm>

French**Set texts for Sections A and B**

Racine: *Andromaque*

Flaubert: *Trois Contes*, ed. P.-M. de Biasi (GF-Flammarion, 1986, variously reprinted)

Recommended text for Section C

A Faculty online anthology of French verse: <http://www.english.cam.ac.uk/undergraduate/local/part1/extra/paper07/french/frameset.htm>

German**Set texts for Sections A and B**

Goethe: *Faust*, lines 354–4612 (i.e. Part One), excluding 3835–4398 ('Walpurgisnacht' and 'Walpurgisnachtstraum')

Brecht: *Mutter Courage und ihre Kinder*

Recommended text for Section C

A Faculty online anthology of German verse: <http://www.english.cam.ac.uk/undergraduate/local/part1/extra/paper07/german/frameset.htm>

Italian**Set texts for Sections A and B**

Dante: *Inferno*, XVIII–XXXIV (no edition specified)

Primo Levi: *Se questo è un uomo* (Einaudi Tascabili, 1953, many times reprinted)

Recommended text for Section C

An online anthology of selections from: Cavalcanti; Dante; Petrarch; Ariosto; Tasso; Michelangelo; Leopardi; Ungaretti; Montale. <http://www.english.cam.ac.uk/undergraduate/local/part1/extra/paper07/latin/frameset.htm>

Old English**Set texts for Sections A and B**

Beowulf: A Student Edition, ed. George Jack (Oxford: Clarendon, 1994), ll. 710–1191; The Dream of the Rood and The Battle of Maldon.

Recommended texts for Section C

Caedmon's Hymn; Preface to the Translation of Gregory's *Pastoral Care*; Translation of Boethius's *Consolation of Philosophy*, selections: 'Proem', 'On Government', and 'Orfeus and Eurydice'; *The Wanderer*; *The Seafarer*; *Deor*; *Wulf and Eadwacer*; Riddles 5, 7, 12, 29, 43, 45, 55; *The Wife's Lament*; *The Husband's Message*; *The Ruin*; *Passion of Saint Edmund*; *Judith*; Wulfstan's *Sermo Lupi ad Anglos*; *Apollonius of Tyre*. All these texts are available in *Old and Middle English: An Anthology*, ed. Elaine Treharne (Oxford: Blackwell, 2000).

Paper 8. *English language for literature, 1300 to the present*
 Specified topics: Argument; Special Period, 1570–1630.

Paper 9. *English literature and its contexts, 1300 to the present: Open dissertation*

Paper 10. *Early medieval literature and its contexts, 1066–c. 1350* (also serves as Paper 14 of Part II and as Paper 11 of Part I of the Anglo-Saxon, Norse, and Celtic Tripos)

Early Middle English:**English:****Set texts**

The following texts and line numbers are taken from *A Book of Middle English*, ed. J. A. Burrow and Thorlac Turville-Petre, third edition (Oxford: Blackwell, 2004):

The Peterborough Chronicle 1137, lines 1–82

The Owl and the Nightingale, lines 1–390
Lawman's Brut, lines 1–173

The following texts are taken from *Medieval English Prose for Women: Selections from the Katherine Group and Ancrene Wisse*, eds. Bella Millett and Jocelyn Wogan-Browne (Oxford: Clarendon Press, 1990):

Sainte Margarete, p. 50 line 4 – p. 62 line 21

Ancrene Wisse, Part 7, p. 110 line 1 – p. 122 line 20

Lay le Freine, in *The Middle English Breton Lays*, ed. Anne Laskaya and Eve Salisbury, (Kalamazoo, MI: Medieval Institute Publications, 1995), lines 1–120, 135–310

Anglo-Norman:

Set texts

Beroul, *Le Roman de Tristan*, ed. Alfred Ewert (1939; repr. Oxford: Blackwell, 1988), lines 1437–1834

'1 The Service for Representing Adam', in *Mediaeval Drama*, ed. David Bevington (Boston: Houghton Mifflin, 1975), lines 358–590

La Chanson de Roland, ed. Frederick Whitehead, rev. T. D. Hemming (1942; Bristol: Bristol Classical Press, 1993), lines 2570–2685 and 3130–3236

Marie de France, *Lais*, ed. Alfred Ewert (1944; repr. Oxford: Blackwell, 1987; Bristol: Bristol Classical Press, 1995), 'Le Fresne', lines 1–312

Wace's Roman de Brut: A History of the British, ed. and trans. Judith Weiss (Exeter: Exeter University Press, 1999), lines 12977–13298

Latin:

Set texts

'19 The Slaughter of the Innocents', in *Mediaeval Drama*, ed. David Bevington (Boston: Houghton Mifflin, 1975)
 Nigel of Longchamps, *Speculum Stultorum*, ed. J. H. Mozley and R. R. Raymo (Berkeley: University of California Press, 1960), lines 2665–2872

Geoffrey of Monmouth, *The History of the Kings of Britain: An Edition and Translation of the Historia Regum Britannie*, ed. Michael Reeve, trans. Neil Wright (Woodbridge: Boydell and Brewer, 2007), chapters 137–142

Walter Map, *De Nugis Curialium*, ed. and trans. M. R. James, rev. C. N. L. Brooke and R. A. B. Mynors (1914; Oxford: Clarendon press, 1983), p. 286 line 17 – p. 296 line 32

'The Songs of Peter of Blois', printed in Fleur Adcock, ed. and trans., *The Virgin and the Nightingale* (Newcastle: Bloodaxe, 1983), nos X–XVII

PART II

Group A

Paper 1. *Practical criticism*

Paper 2. *Tragedy*

Group B(i)

Paper 3. *Chaucer*

Paper 4. *Medieval English literature, 1066–1500* (also serves as Paper 13 of Part II of the Anglo-Saxon, Norse, and Celtic Tripos)
 Subject for special study: Dreams and Visions.

Paper 5. *Special period of English literature: 1500–1547*

Paper 6. *Special period of English literature: 1847–1872*

Paper 7. *Special subject I*

(a) This paper is not available in 2012.

(b) Literature, culture, and crisis, 1631–1671.

(c) Lyric

(d) Modernism and the short story

Group B(ii)

Paper 8. *The English moralists*

Paper 9. *The history and theory of literary criticism*

Paper 10. *Postcolonial and related literatures*

Paper 11. American literature
Section A of the exam paper will consist of passages for comment from the period 1836–1865.

Paper 12. Special subject II
(a) This paper is not available in 2012.
(b) Literature and visual culture
Specified topic for Section B: Kubrick: text and genre
(c) Contemporary writing in English

Group C(ii)

Paper 28. A special subject in comparative literature (Paper CS 5 of the Modern and Medieval Languages Tripos):
The body

Examination in Advanced Chemical Engineering for the degree of Master of Philosophy, 2011–12: Modules

The Degree Committee for the Faculty Board of Engineering give notice that the mandatory and optional modules available for study for the M.Phil. in Advanced Chemical Engineering (*Statutes and Ordinances*, p. 500) in the academical year 2011–12 and the form of examination of each module will be as follows.

Mandatory modules

<i>Ref</i>	<i>Name</i>	<i>Mode of assessment</i> ¹
NM	Numerical methods in chemical engineering	Course-work
MA	Molecular aspects of chemical engineering	Course-work
MOTI	Management of technology and innovation	Course-work

Optional modules

<i>Ref</i>	<i>Name</i>	<i>Mode of assessment</i> ^{1,2}
B1	Biopharmaceuticals	Examination and course-work
B2	Catalysis	Examination
B3	Electrochemical engineering	Examination
B4	Fluid mechanics and the environment	Examination
B5	Modern metrology	Examination
B6	Optimization	Examination
B7	Particle technology	Examination
B8	Rheology and processing	Examination
B9	Biosensors	Course-work
4A2	Computational fluid dynamics	Course-work
4B5	Nanotechnology	Examination and course-work
4D14	Contaminated land and waste containment	Examination and course-work
4D15	Sustainable water engineering	Course-work
4E4	Management of technology	Course-work
4E5	International business economics ³	Course-work
4E11	Strategic management	Course-work
4E12	Project management ³	Course-work
4G4	Biomimetics	Course-work
4G6	Cellular and molecular biomechanics	Examination
4I7	Electricity and the environment	Course-work
4M6	Materials and processes for microsystems (MEMS)	Examination and course-work
4M14	Sustainable development	Course-work
4M15	Sustainable energy	Examination and course-work
4M16	Nuclear power engineering	Examination
5R15	Sustainable development	Course-work

The Degree Committee for the Faculty Board of Engineering reserve the right to add to this list during the Michaelmas Term 2011.

¹ All course-work is of one or more of the following formats: class participation, essay, exercise, in-class (open-book) tests, oral presentation, report. Each written course-work item has a limit of 10,000 words. All in-class tests will be of no more than 90 minutes' duration.

² All written examinations are of 90 minutes' duration.

³ Subject to confirmation.

Examination in Advanced Computer Science for the M.Phil. Degree, 2011–12: Correction

The following modules available for study for the M.Phil. in Advanced Computer Science are half modules (see p. 956).

Michaelmas Term 2011

R07 Introductory logic (c and t)

Lent Term 2012

L22 Advanced topics in concurrency (t)

The following module available for study for the M.Phil. in Advanced Computer Science is a full module.

Lent Term 2012

L109 Social and technological network analysis (c)

Examinations in Economics and in Economic Research for the M.Phil. Degree, 2011–12: Notice

The Faculty Board of Economics and the Degree Committee for the Faculty of Economics give notice, with the approval of the Board of Graduate Studies and the General Board, that in the academical year 2011–12 the subjects for examination will be as listed below.

M.Phil. in Economics

Core Modules

Module 100: Microeconomics I
 Module 200: Macroeconomics I
 Module 300: Econometric methods

Advanced Modules

Module 110: Microeconomics II
 Module 120: Topics in economic theory
 Module 210: Macroeconomics II
 Module 220: Macroeconomics III
 Module 310: Times series econometrics and financial econometrics
 Module 320: Cross section and panel data econometrics

Applied Modules

Module 130: Applied microeconomics
 Module 230: Applied macroeconomics
 Module 330: Applied econometrics

Specialist Modules

Module 140: Behavioural economics
 Module 150: Economics of networks
 Module 160: Political economy
 Module 170: Corporate finance
 Module 180: Industrial organization
 Module 190: Behavioural finance
 Module 240: International finance
 Module 250: International trade
 Module 400: Asset pricing
 Module 500: Development economics
 Module 510: Poverty, environment, and sustainable development
 Module 600: Historical perspective in financial crises
 Module 620: Institutions and long-distance trade 1000–1900

M.Phil. in Economic Research

Core Modules

Module 100: Microeconomics I
 Module 200: Macroeconomics I
 Module 300: Econometric methods

Advanced Modules

Module 110: Microeconomics II
 Module 120: Topics in economic theory
 Module 210: Macroeconomics II

Module 220:	Macroeconomics III
Module 310:	Times series econometrics and financial econometrics
Module 320:	Cross section and panel data econometrics

Applied Modules

Module 130:	Applied microeconomics
Module 230:	Applied macroeconomics
Module 330:	Applied econometrics

Specialist Modules

Module 140:	Behavioural economics
Module 150:	Economics of networks
Module 160:	Political economy
Module 170:	Corporate finance
Module 180:	Industrial organization
Module 190:	Behavioural finance
Module 240:	International finance
Module 250:	International trade
Module 400:	Asset pricing
Module 500:	Development economics
Module 510:	Poverty, environment, and sustainable development
Module 600:	Historical perspective in financial crises
Module 620:	Institutions and long-distance trade 1000–1900

The method of examination for all modules will be by a two-hour written paper.

Diploma in Economics, 2011–12: Notice

The Faculty Board of Economics and the Degree Committee for the Faculty of Economics give notice, with the approval of the Board of Graduate Studies and the General Board, that in the academical year 2011–12 the subjects for examination for the Diploma in Economics will be as listed below.

Papers 1 and 2 will each be examined by means of a three-hour written examination, while Paper 3 will be examined by means of a three-hour written examination (60% of the marks) and a project (40% of the marks).

Paper 1:	Microeconomics
Paper 2:	Macroeconomics
Paper 3:	Econometrics

Examination in Economics for the Certificate of Postgraduate Study, 2011–12: Notice

The Faculty Board of Economics and the Degree Committee for the Faculty of Economics give notice, with the approval of the Board of Graduate Studies and the General Board, that in the academical year 2011–12 the subjects for examination will be as listed below.

Compulsory Component

PhD 40:	How to do economics
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Specialist Modules

PhD10:	Advanced course in economic theory
PhD20:	Topics in advanced macroeconomics
PhD30:	Advanced econometrics I
PhD31:	Advanced macroeconomics II
Module 140:	Behavioural economics
Module 150:	Economics of networks
Module 160:	Political economy
Module 170:	Corporate finance
Module 180:	Industrial organization
Module 190:	Behavioural finance
Module 240:	International finance
Module 250:	International trade
Module 400:	Asset pricing
Module 500:	Development economics
Module 510:	Poverty, environment, and sustainable development
Module 600:	Historical perspective in financial crises
Module 620:	Institutions and long-distance trade 1000–1900

Research Workshops

Microeconomic theory workshop
 Applied microeconomics workshop
 Macroeconomics workshop
 Econometrics workshop

M.Phil. in Engineering for Sustainable Development, 2011–12: Notice

The Degree Committee for the Faculty of Engineering give notice that the mandatory and optional modules available for study for the M.Phil. in Engineering for Sustainable Development (*Statutes and Ordinances*, p. 512) in the academical year 2011–12 will be as follows.

Core Modules (Mandatory)

(all assessed by course-work)

Michaelmas 2011

ESD 100 Concepts, values, and change processes
 ESD 200 Sustainability methods and metrics
 MOT&I Management of technology and innovation (two components = one module)

Lent 2011

MOT&I Management of technology and innovation (two components = one module)

Outer Core Modules (two required from the following list)¹

ESD 300 Sustainability assessment of large infrastructure projects
 ESD 400 Economic, legal, and regulation issues
 ESD 500 Development engineering
 ESD 600 Sustainable design and implementation

Optional modules*Michaelmas 2011 (two required)*

ESD-E45 ³	Environmental engineering	course-work
4B14	Solar electronic power: generation and distribution	course-work and examination
4B19	Renewable electrical power	examination
4D11	Building physics	course-work and examination
4D13	Architectural engineering	course-work
4D14	Contaminated land and waste containment	course-work and examination
4E1	Technological innovation: research and practice	course-work
4E4	Management of technology	course-work
4E6 ⁴	Accounting and finance	course-work
4G4	Biomimetics	examination
4I7	Electricity and environment	course-work
MM10	Globalization	course-work
TP1	Introduction to technology policy	course-work
TPE7	Political economy of technology policy	course-work
ESD-A1	Environmental design for architecture: 1	course-work

*Mode of assessment²**Lent 2012 (two required)¹*

4A8	Environmental fluid mechanics	examination
4D15	Sustainable water engineering	course-work
4E5	International business economics	course-work
4E11	Strategic management	course-work
4E12	Project management	course-work
4M15	Sustainable energy	course-work and examination
4G1	Systems biology	course-work
TP4	Complexity and negotiations (Easter Term)	course-work
TP6 ⁵	Uncertainty and real options in systems design	course-work
TPE8	Systems dynamics	course-work
ESD-A2	Environmental design for architecture: 2	course-work
ESD-CE2	Sustainability and chemical engineering	examination

Mode of assessment²

The Degree Committee for the Faculty of Engineering reserve the right to add to this list during the Michaelmas Term 2011.

¹ Up to two modules from the outer core may also be taken as electives in Lent Term.

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

³ The Degree Committee for the Faculty of Engineering reserve the right to withdraw any of these modules should less than ten students enrolled on the M.Phil. in Engineering for Sustainable Development elect to study them.

⁴ Subject to overall numbers.

⁵ Block module to be run in December 2011.

M.Phil. Degree (one-year course): Examinations in Environmental Policy, in Planning, Growth, and Regeneration, in Real Estate Finance, and in Land Economy Research, 2011–12: Notice

The Degree Committee for the Department of Land Economy give notice, with the approval of the Board of Graduate Studies and the General Board, that in the academical year 2011–12 the modules for: Environmental Policy; Land Economy Research; Planning, Growth, and Regeneration; and Real Estate Finance, in the examination for the M.Phil. Degree (one-year course), in addition to the compulsory dissertation, will be as follows. Each candidate's course of study will be subject to the approval of the Degree Committee. Modules may be withdrawn if there is not sufficient demand or in the event of exceptional circumstances. Availability of modules will be subject to satisfactory completion of prerequisite modules specified by the Department of Land Economy in the M.Phil. Handbook, and to timetabling constraints.

ENVIRONMENTAL POLICY

Core methodology module

either

RM01 Quantitative research methods I (Michaelmas Term)

or

RM03 Mixed research methods (Michaelmas Term)

Core modules

EP02 Fundamentals of environmental economics (Michaelmas Term)

EP03 Fundamentals of international environmental law (Michaelmas Term)

At least two from

EP01 Environmental values (Michaelmas Term)

EP04 Sustainability and international environmental policy (Lent Term)

EP05 Advanced international environmental law (Lent Term)

EP06 Aspects of environmental policy-making (Lent Term)

EP08 Rural environment: property, planning, and policy (Lent Term)

EP09 Economic development and land use policies (Michaelmas Term)

EP10 Climate change policy and land development (Lent Term)

Optional modules

RM02 Quantitative research methods II (Lent Term)

PGR01 Urban and environmental planning I (Michaelmas Term)

PGR02 Issues in public policy and regeneration I (Michaelmas Term)

PGR05 Housing and regeneration (Lent Term)

PGR07 Spatial economics (Lent Term)

PGR08 Institutions and development I (Michaelmas Term)

PGR09 Institutions and development II (Lent Term)

PGR10 Urban and environmental planning II (Lent Term)

RE01 Introduction to real estate finance (Michaelmas Term)

RE02 Real estate development (Lent Term)

RE03 Real estate securities, securitization, and investment (Lent Term)

RE04 Private real estate investment: risk and return (Lent Term)

RE05 Legal issues in land use and finance (Lent Term)

RE06 The macroeconomy and housing (Michaelmas Term)

Paper 1 Development economics (Lent Term)

PLANNING, GROWTH, AND REGENERATION

Core methodology module

either

RM01 Quantitative research methods I (Michaelmas Term)

or

RM03 Mixed research methods (Michaelmas Term)

Core modules

PGR01 Urban and environmental planning I (Michaelmas Term)
 PGR02 Issues in public policy and regeneration I (Michaelmas Term)
 PGR10 Urban and environmental planning II (Lent Term)
 RE02 Real estate development (Lent Term)

Optional modules

RM02 Quantitative research methods II (Lent Term)
 PGR05 Housing and regeneration (Lent Term)
 PGR07 Spatial economics (Lent Term)
 PGR08 Institutions and development I (Michaelmas Term)
 PGR09 Institutions and development II (Lent Term)
 EP01 Environmental values (Michaelmas Term)
 EP02 Fundamentals of environmental economics (Michaelmas Term)
 EP03 Fundamentals of international environmental law (Michaelmas Term)
 EP04 Sustainability and international environmental policy (Lent Term)
 EP05 Advanced international environmental law (Lent Term)
 EP06 Aspects of environmental policy-making (Lent Term)
 EP08 Rural environment: property, planning, and policy (Lent Term)
 EP09 Economic development and land use policies (Michaelmas Term)
 EP10 Climate change policy and land development (Lent Term)
 RE01 Introduction to real estate finance (Michaelmas Term)
 RE03 Real estate securities, securitization, and investment (Lent Term)
 RE04 Private real estate investment: risk and return (Lent Term)
 RE05 Legal issues in land use and finance (Lent Term)
 RE06 The macroeconomy and housing (Michaelmas Term)

REAL ESTATE FINANCE

Core methodology module

RM01 Quantitative research methods I (Michaelmas Term)

Core modules

RE01 Introduction to real estate finance (Michaelmas Term)
 RE03 Real estate securities, securitization, and investment (Lent Term)
 RE04 Private real estate investment: risk and return (Lent Term)

At least one from

RE02 Real estate development (Lent Term)
 RE05 Legal issues in land use and finance (Lent Term)
 RE06 The macroeconomy and housing (Michaelmas Term)
 RE07 Real estate project modelling and decision methods (Lent Term)
 PGR01 Urban and environmental planning I (Michaelmas Term)
 PGR07 Spatial economics (Lent Term)

Optional modules

RM02 Quantitative research methods II (Lent Term)
 EP01 Environmental values (Michaelmas Term)
 EP02 Fundamentals of environmental economics (Michaelmas Term)
 EP03 Fundamentals of international environmental law (Michaelmas Term)
 EP04 Sustainability and international environmental policy (Lent Term)
 EP05 Advanced international environmental law (Lent Term)
 EP06 Aspects of environmental policy-making (Lent Term)
 EP08 Rural environment: property, planning, and policy (Lent Term)
 EP09 Economic development and land use policies (Michaelmas Term)
 EP10 Climate change policy and land development (Lent Term)
 PGR02 Issues in public policy and regeneration I (Michaelmas Term)
 PGR05 Housing and regeneration (Lent Term)
 PGR08 Institutions and development I (Michaelmas Term)
 PGR09 Institutions and development II (Lent Term)
 PGR10 Urban and environmental planning II (Lent Term)

LAND ECONOMY RESEARCH

Compulsory module

Six Core modules from the Joint Schools' Social Science Research Methods Course (JSSS) (Michaelmas and Lent Terms)

Choice of two modules to be examined by essay or project in all cases (Michaelmas or Lent)

PGR01 Urban and environmental planning I (Michaelmas Term)
 PGR02 Issues in public policy and regeneration I (Michaelmas Term)
 PGR05 Housing and regeneration (Lent Term)
 PGR07 Spatial economics (Lent Term)
 PGR08 Institutions and development I (Michaelmas Term)
 PGR09 Institutions and development II (Lent Term)
 PGR10 Urban and environmental planning II (Lent Term)
 EP01 Environmental values (Michaelmas Term)
 EP02 Fundamentals of environmental economics (Michaelmas Term)
 EP03 Fundamentals of international environmental law (Michaelmas Term)
 EP04 Sustainability and international environmental policy (Lent Term)
 EP05 Advanced international environmental law (Lent Term)
 EP06 Aspects of environmental policy-making (Lent Term)
 EP08 Rural environment: property, planning, and policy (Lent Term)
 EP09 Economic development and land use policies (Michaelmas Term)
 EP10 Climate change policy and land development (Lent Term)
 RE01 Introduction to real estate finance (Michaelmas Term)
 RE02 Real estate development (Lent Term)
 RE03 Real estate securities, securitization, and investment (Lent Term)
 RE04 Private real estate investment: risk and return (Lent Term)
 RE05 Legal issues in land use and finance (Lent Term)
 RE06 The macroeconomy and housing (Michaelmas Term)
 RE07 Real estate project modelling and decision methods (Lent Term)

The Degree Committee also give notice that in the examination to be held in 2011–12, in addition to the compulsory dissertation in each M.Phil.:

1. The modules offered in the Michaelmas Term will be examined before the start of Full Lent Term by one or two essays and/or projects not exceeding 4,000 words each, and/or by written examination.
2. The modules offered in the Lent Term will be examined before the start of Full Easter Term by one or two essays and/or projects not exceeding 4,000 words each, and/or by written examination.
3. All written examinations shall be of two or three hours' duration.
4. M.Phil. in Land Economy Research candidates will be examined by essay(s) and/or project(s) and not by written examination. They are also required to complete a 4,000 word research methods essay as part of the JSSS course.

Language Centre opening hours, Long Vacation 2011: Notice

The Acting Director gives notice that the Language Centre (including the John Trim Centre for Independent Learning) will be open from 9 a.m. to 5 p.m. for the duration of the Long Vacation 2011, with the exception of the summer closure period from 5 p.m. on Friday, 29 July 2011, until 9 a.m. on Monday, 15 August 2011.

ORDERS OF EXAMINATIONS, AUTUMN 2011

SECOND M.B. EXAMINATION:

Biology of Disease, Autumn 2011 – MDQ1BD

WRITTEN EXAMINATION

Monday 19 September 11.00–12.00 BOD1. Biology of Disease {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Thursday 22 September 11.00–13.00 BOD2. Biology of Disease {Section II} **Department of Pathology**

Functional Architecture of the Body, Autumn 2011 – MDQ1FA

WRITTEN EXAMINATION

Monday 19 September 09.00–10.00 FAB1. Functional Architecture of the Body {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Monday 19 September 14.00–16.00 FAB2. Functional Architecture of the Body {Section II} **Department of Physiology, Development, and Neuroscience**

Homeostasis, Autumn 2011 – MDQ1HO

WRITTEN EXAMINATION

Tuesday 20 September 09.00–10.00 HOM1. Homeostasis {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Tuesday 20 September 14.00–16.00 HOM2. Homeostasis {Section II Written Practical} **Department of Physiology, Development, and Neuroscience**
 HOM2/P. Homeostasis {Section II Practical} **Department of Physiology, Development, and Neuroscience**

Human Reproduction, Autumn 2011 – MDQ1HR

WRITTEN EXAMINATION

Thursday 22 September 09.00–10.00 HR1. Human Reproduction {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Friday 23 September 14.00–16.00 HR2. Human Reproduction {Section II} **Department of Physiology, Development, and Neuroscience**

Introduction to the Scientific Basis of Medicine, Autumn 2011 – MDQ1IB

The examination will take place in the **Examination Halls, New Museums Site**.

Friday 23 September 12.00–12.45 ISBM. Introduction to the Scientific Basis of Medicine

Mechanisms of Drug Action, Autumn 2011 – MDQ1MD

The examination will take place in the **Examination Halls, New Museums Site**.

Tuesday 20 September 11.00–12.00 MODA1. Mechanisms of Drug Action {Section I}

Thursday 22 September 15.00–17.00 MODA2. Mechanisms of Drug Action {Section II Written Practical}

Molecules in Medical Science, Autumn 2011 – MDQ1MI

The examination will take place in the **Examination Halls, New Museums Site**.

Wednesday 21 September 09.00–10.00 MIMS1. Molecules in Medical Science {Section I}
 10.15–12.15 MIMS2. Molecules in Medical Science {Section II}

Neurobiology with Human Behaviour, Autumn 2011 – MDQ1NB

WRITTEN EXAMINATION

Wednesday 21 September 14.00–15.00 NHB1. Neurobiology with Human Behaviour {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Friday 23 September 09.00–11.00 NHB2. Neurobiology with Human Behaviour {Section II} **Department of Physiology, Development, and Neuroscience**

Social Context of Health and Illness, Autumn 2011 – MDQ1SC

The examination will take place in the **Examination Halls, New Museums Site**.

Friday 23 September 14.00–15.30 SCHI. Social Context of Health and Illness

FINAL M.B. EXAMINATION:**Part I, Pathology, Michaelmas Term, 2011 – MDB1**

The examination will take place in the **Examination Halls, New Museums Site**.

Friday 14 October 09.00–12.00 P. Practical examination

Monday 17 October 09.00–11.20 2. Essay paper

Tuesday 18 October 09.00–11.00 1. Multiple choice paper

Friday 21 October 09.00– Oral examinations (Candidates requiring an oral examination will be notified by the Senior Examiner.)

Part II, Clinical Paediatrics and Clinical Obstetrics and Gynaecology, Michaelmas Term, 2011 – MDB2

The examination will take place in **Addenbrooke's Hospital**.

Monday 24 October 09.00–17.00 Clinical examination in Paediatrics and in Obstetrics and Gynaecology

Executive Master of Business Administration (Year two), Autumn 2011 – MGM16

The examination will take place in the **Examination Halls, New Museums Site**.

Friday 9 September 09.00–12.00 EMBA10. Marketing

Modern and Medieval Languages Tripos, Part II, 2012 – MLT2

ORAL EXAMINATIONS

Oral examinations in the following languages will be held on **the Sidgwick Avenue Site** beginning on Thursday 29 September 2011 and Friday 30 September 2011. (Individual dates and times will be circulated to Colleges with the final lists of candidates on 15 September.)

Dutch	Modern Greek
French	Portuguese
German	Russian
Italian	Spanish

Asian and Middle Eastern Studies Tripos, Part II, 2012 – AET2

ORAL EXAMINATIONS

Oral examinations in the following languages will be held on **the Sidgwick Avenue Site** beginning on Thursday 29 September 2011 and Friday 30 September 2011. (Individual dates and times will be circulated to Colleges with the final lists of candidates on 15 September.)

Arabic
Hebrew
Persian

SECOND VETERINARY M.B. EXAMINATION:**Biology of Disease, Autumn 2011 – VTQ1BD**

WRITTEN EXAMINATION

Monday 19 September 11.00–12.00 BOD1. Biology of Disease {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Thursday 22 September 11.00–13.00 BOD2. Biology of Disease {Section II} **Department of Pathology**

Comparative Vertebrate Biology, Autumn 2011 – VTQ1CB

The examination will take place in the **Department of Physiology, Development, and Neuroscience**.

Wednesday 21 September 16.00–17.30 CVB1. Comparative Vertebrate Biology {Section I}
CVB2. Comparative Vertebrate Biology {Section II Written Practical}

Farm Animal Husbandry, Autumn 2011 – VTQ1FH

The examination will take place in the **Examination Halls, New Museums Site**.

Friday 23 September 16.00–17.00 FAH. Farm Animal Husbandry

Homeostasis, Autumn 2011 – VTQ1HO

WRITTEN EXAMINATION

Tuesday 20 September 09.00–10.00 HOM1. Homeostasis {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Tuesday 20 September 14.00–16.00 HOM2. Homeostasis {Section II Written Practical} **Department of Physiology, Development, and Neuroscience**
 HOM2/P. Homeostasis {Section II Practical} **Department of Physiology, Development, and Neuroscience**

Introduction to the Scientific Basis of Medicine, Autumn 2011 – VTQ1IB

The examination will take place in the **Examination Halls, New Museums Site**.

Friday 23 September 12.00–12.45 ISBM. Introduction to the Scientific Basis of Medicine

Mechanisms of Drug Action, Autumn 2011 – VTQ1MD

The examination will take place in the **Examination Halls, New Museums Site**.

Tuesday 20 September 11.00–12.00 MODA1. Mechanisms of Drug Action {Section I}
 Thursday 22 September 15.00–17.00 MODA2. Mechanisms of Drug Action {Section II Written Practical}

Molecules in Medical Science, Autumn 2011 – VTQ1MI

The examination will take place in the **Examination Halls, New Museums Site**.

Wednesday 21 September 09.00–10.00 MIMS1. Molecules in Medical Science {Section I}
 10.15–12.15 MIMS2. Molecules in Medical Science {Section II}

Neurobiology with Animal Behaviour, Autumn 2011 – VTQ1NA

WRITTEN EXAMINATION

Wednesday 21 September 14.00–15.00 NAB1. Neurobiology with Animal Behaviour {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Friday 23 September 09.00–11.00 NAB2. Neurobiology with Animal Behaviour {Section II} **Department of Physiology, Development, and Neuroscience**

Preparing for the Veterinary Profession, Autumn 2011 – VTQ1PF

The examination will take place in the **Examination Halls, New Museums Site**.

Monday 26 September 09.00–09.45 PFVP. Preparing for the Veterinary Profession

Veterinary Anatomy and Physiology, Autumn 2011 – VTQ1VA

WRITTEN EXAMINATION

Monday 19 September 09.00–10.00 VAP1. Veterinary Anatomy and Physiology {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Monday 19 September 14.00–16.00 VAP2. Veterinary Anatomy and Physiology {Section II} **Department of Physiology, Development, and Neuroscience**

Veterinary Reproductive Biology, Autumn 2011 – VTQ1VB

WRITTEN EXAMINATION

Thursday 22 September 09.00–10.00 VRB1. Veterinary Reproductive Biology {Section I} **Examination Halls, New Museums Site**

PRACTICAL EXAMINATION

Details will be posted on the Department Notice Board.

Friday 23 September 14.00–15.00 VRB2. Veterinary Reproductive Biology {Section II} **Department of Physiology, Development, and Neuroscience**

FINAL VETERINARY EXAMINATION:**Part II, Autumn 2011 – VTE2**

The examination will take place in the **Department of Veterinary Medicine**.

WRITTEN EXAMINATION

Monday 19 September	09.00–11.00	1. Paper 1
Tuesday 20 September	09.00–11.00	2. Paper 2

SYSTEMS PRACTICAL EXAMINATION

Wednesday 21 September 09.00–17.30

Part III, Autumn 2011 – VTE3

The examination will take place in the **Department of Veterinary Medicine**.

WRITTEN EXAMINATION

Wednesday 14 September	09.00–12.00	C. Farm animal studies
Thursday 15 September	09.00–12.00	B. Small animal studies
Friday 16 September	09.00–11.00	D. Veterinary public health
Monday 19 September	09.00–12.00	A. Equine studies

ORAL EXAMINATION

Wednesday 21 September 09.00–17.30

REPORTS**Report of the Council on the construction of Phase 1 of the University Sports Centre on the West Cambridge Site**

The COUNCIL begs leave to report to the University as follows:

1. The West Cambridge Master Plan was approved by the Regent House by Grace 8 of 14 May 1997 and outline planning approval for the Master Plan was obtained in April 1999. The Master Plan incorporates extensive infrastructure support, and a land-use mix including: University teaching and research facilities; research organizations including incubator units for science-based businesses; shared amenities – sports facilities, cafes, shops, and campus centre facilities; residential use – accommodation for University staff and postgraduates including a nursery; and a park and cycle facility.

2. The full scheme of the University Sports Centre, which will be located at West Cambridge, was originally approved during the period 2000–01 by the University Sports Syndicate, the Planning and Resources Committee, the West Cambridge Development Group, and the Buildings Committee. The full scheme consisted of a 50-metre swimming pool, multi-purpose sports hall, Eton and Rugby Fives courts, squash courts, gym, aerobics, fencing, indoor and external tennis courts, and a sports science and medicine facility. The cost of the Sports Centre in 2001 was estimated to be £37m. This estimate was last updated in 2007 when inflation had increased the overall cost to approximately £45m.

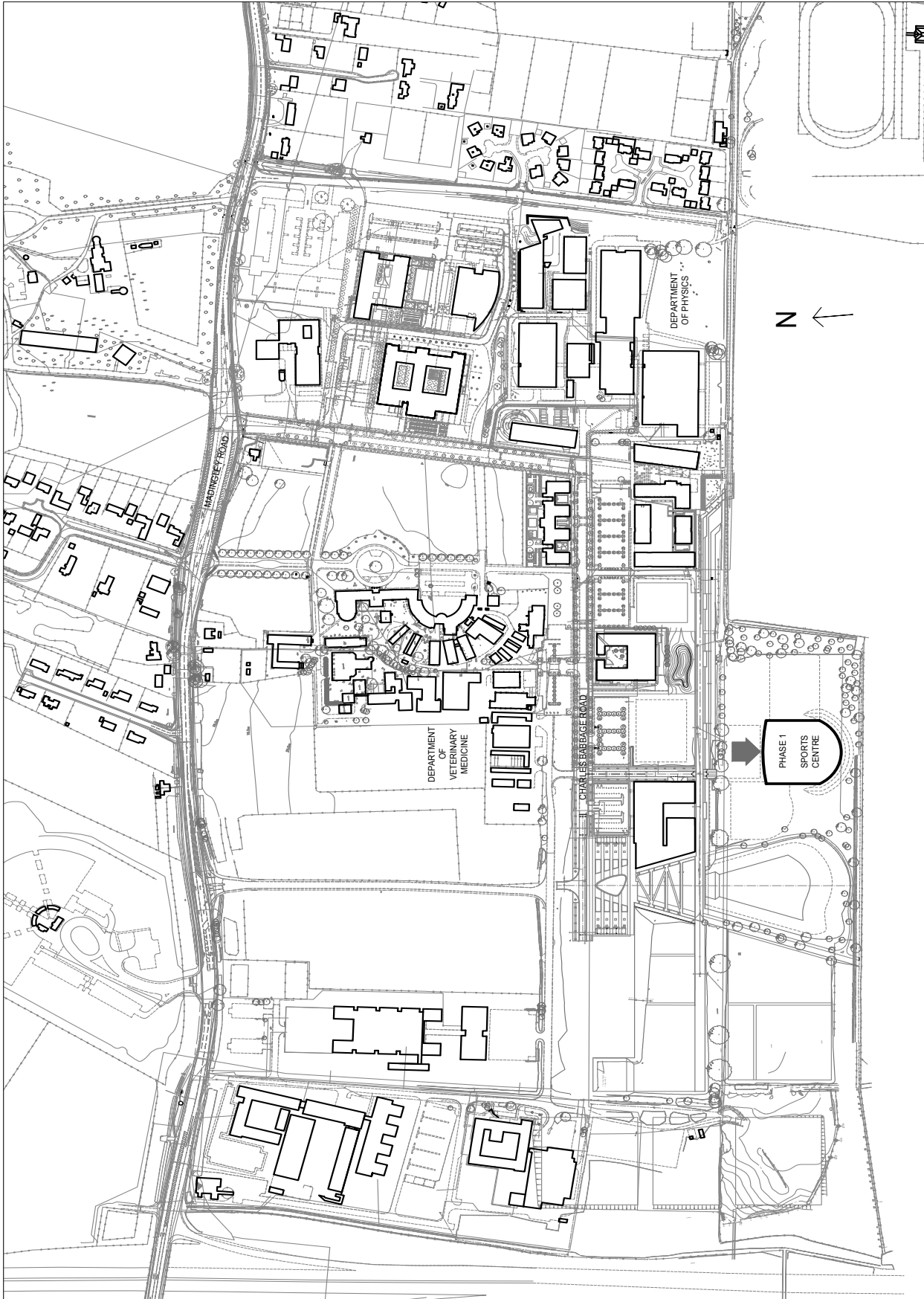
3. Neither benefactors nor other sources of funding have been forthcoming and the project had not progressed further since 2002.

4. Full Planning Permission was granted for the Sports Centre in 2002. The Planning Permission was renewed in 2007. A further planning application was made in 2010 to extend the 2007 Planning Permission. This latest application is yet to be determined by the Cambridge City Council planning authority but approval is expected shortly.

5. The Council now proposes that a first phase of the new University Sports Centre building be constructed on the West Cambridge Site. The facilities within the first phase will comprise a sports hall, fitness facilities, multi-purpose room, changing rooms, and offices. Space for squash courts and Eton and Rugby Fives courts will be accommodated within Phase 1 but will not be fitted out. This much reduced scheme has been estimated to cost £16m which will be financed from a University loan.

6. In this Report the Council also proposes the disposal of the land and building housing the Physical Education Centre at Fenner's, with the proceeds of the sale being applied to the funding of the new Sports Centre.

7. The Finance Committee have agreed to make a loan of £16m to fund the project subject to approval of the revised Business Case by the Planning and Resources Committee, which was forthcoming at the meeting held on 16 March 2011. The £16m loan comprises: £10m from the University Chest; £5m underwritten by the Chest until a fundraising campaign raises a £5m benefaction; and a further £1m underwritten until the sale of the Physical Education Centre building at Fenner's is completed. The sale of the Physical Education Centre, as shown on the attached plan, will not take place until the Department of Physical Education relocate to the new building, when the total capital realized from the sale will be used to offset the loan from the Chest to the project. It is estimated that the value of the sale would be in excess of £1m. It is proposed to sell the freehold interest in order to maximize the capital receipt. For clarity it should be noted that these arrangements have no bearing on the Wilberforce Road Sports Ground and the facilities therein which will continue to provide for the



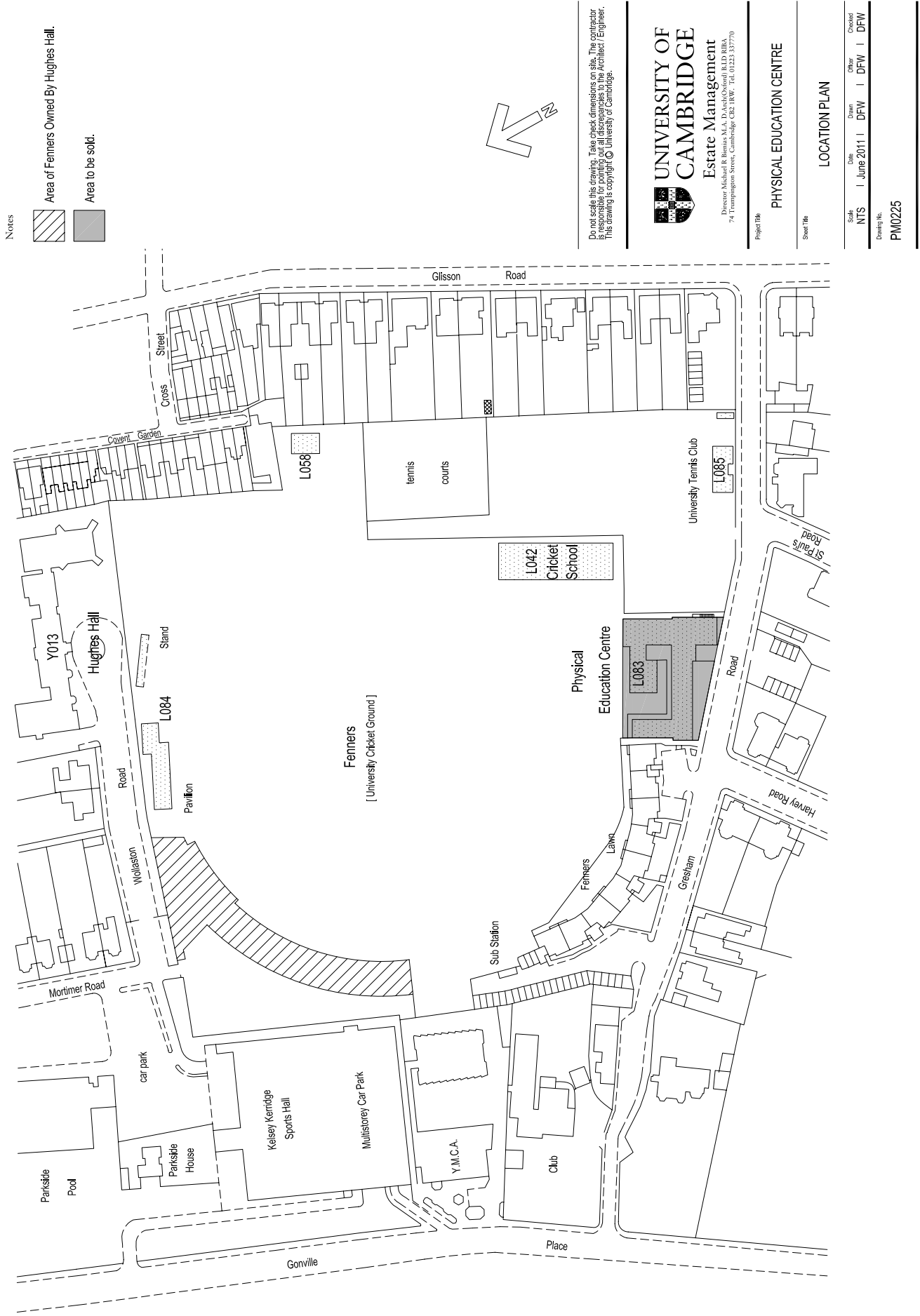
THE WEST CAMBRIDGE SITE

University of Cambridge Sports Centre - Phase 1



Location Plan

1:5000 at A3

Arup Associates 10/06/2011



Notes

-  Area of Fenners Owned By Hughes Hall.
-  Area to be sold.

Do not scale this drawing. Take check dimensions on site. The contractor is responsible for pointing out all discrepancies to the Architect / Engineer. This drawing is copyright © University of Cambridge.

UNIVERSITY OF CAMBRIDGE
 Estate Management
 74, Trumpington Street, Cambridge, CB2 1RU, Tel: 01223 337770

Project Title	PHYSICAL EDUCATION CENTRE		
Sheet Title	LOCATION PLAN		
Scale	Date	Drawn	Checked
NTS	1 June 2011	DFW	DFW
Drawing No.	PM0225		

University's needs for Athletics, Hockey, and general training. Similarly, the University Cricket Ground, the Indoor Cricket School, and the University Lawn Tennis Club facilities at Fenner's will continue to provide for the University's needs in those areas.

8. It is expected that the running costs of the new building will be £145,000 a year. The running costs, the interest charges, and the capital repayment schedule will be met from income from membership fees, hiring charges, and charges for classes drawn from within and outwith the University. A reasonable level of community use of the facilities is required under the current planning conditions and it is anticipated that this will continue to be a requirement following the latest planning application. The Finance Committee and the

Planning and Resources Committee, in approving the loan, considered the detailed Business Plan to be robust and realistic in terms of servicing the loan and meeting the costs of the proposed facilities.

9. The new building will be designed to achieve a BREEAM sustainability rating of 'Very Good', which is the minimum required by the University. Attempting to attain a higher rating would not be cost effective and could not be achieved within the existing budget. The City Council's requirement for 10% on-site renewable energy provision will be met.

10. Drawings of the proposed scheme are displayed for the information of the University in the Schools Arcade.

11. The Council recommends:

I. That approval be given for the construction of a new building on the West Cambridge Site for Phase 1 of the University Sports Centre as proposed in this Report.

II. That approval be given to the disposal of the freehold interest of the site of the Physical Education Centre as shown on the attached plan.

III. That the Pro-Vice-Chancellor for Planning and Resources, on the advice of the Director of Estate Management, be authorized to accept a tender for the building contract and all associated works in due course, subject to full funding being available.

27 June 2011

L. K. BORYSIEWICZ, *Vice-Chancellor*
N. BAMPOS
RICHARD BARNES
D. CASSERLEY
STEPHEN J. COWLEY
M. J. DAUNTON
R. J. DOWLING

I. M. LE M. DU QUESNAY
NICK GAY
DAVID GOOD
ANDY HOPPER
CHRISTOPHER HUM
F. P. KELLY
VANESSA LAWRENCE
R. LETHBRIDGE
RAHUL MANSIGANI
MAVIS McDONALD
RACHAEL PADMAN
JOHN SHAKESHAF

Report of the General Board on the establishment of a Professorship of Medical Genetics and Genomic Medicine

The GENERAL BOARD beg leave to report to the University as follows:

1. The field of Medical Genetics is concerned with the application of genetic principles to medicine, with the care and management of inherited disease in extended families, and with teaching and research in the diagnosis and prevention of genetic disorders. Following the remarkable advances in molecular biology generally, and recent successes in mapping and sequencing the human genome especially, molecular genetics has become of major importance. Genetic analyses are now performed across the entire genome, and hence the field is now often referred to as 'genomics', and goes beyond DNA sequence determination to investigate global patterns of gene expression and regulatory features of genome functions.

2. These major advances in technologies and knowledge apply not only to research, where Medical Genetics and Genomic Medicine is one of the principal research themes in the School of Clinical Medicine, but also to the teaching of medical students. 'Genomic Medicine' will become increasingly important in the clinic, and the Department of Medical Genetics is taking a pioneering role in these developments, not least by the establishment by the Department of a next generation sequencing facility, the Eastern Sequence and Informatics Hub.

3. The first Professorship of Medical Genetics was

established in 1995 for the tenure of Professor M. Bobrow. In view of the importance of the field the General Board agreed to establish a second and permanent, non-clinical Professorship of Medical Genetics. Professor J. A. Todd was elected to this Professorship from 1 October 1998.

4. Following the retirement of Professor Bobrow, the Faculty Board of Clinical Medicine have concluded that it would be highly desirable for the field of this Professorship to extend beyond the clinical specialty of Medical Genetics to the wider application of genomics to clinical medicine ('Genomic Medicine'). In addition to providing broader academic leadership in the application of genetics and genomics to clinical medicine, this would also make it likely that the work of the Professorship could be linked to the activities of the Wellcome Trust Sanger Institute, and in particular its Human Genetics Programme, to the mutual advantage of the School and the Institute. The Professor would continue to take part in the provision of clinical services for medical genetics and hold an honorary clinical contract.

5. The General Board accordingly propose the establishment for one tenure from 1 October 2011 of a Professorship of Medical Genetics and Genomic Medicine, to be assigned to the Department of Medical Genetics. The full costs of the Professorship would be met from the NHS Clinical Academic Reserve. In the

event of any shortfall in this NHS funding, the Faculty Board have agreed to meet the full costs of the office from within their existing resources. The General Board are assured that an appointment at this level will attract a strong field of well-qualified candidates; they have

agreed to concur in the view of the Faculty Board of Clinical Medicine that an election to the Professorship should be made by an *ad hoc* Board of Electors, and that candidature should be open to all persons whose work falls within the field of the title of the Professorship.

6. The General Board recommend:

That a Professorship of Medical Genetics and Genomic Medicine be established in the University for one tenure from 1 October 2011, placed in Schedule B of the Statutes, and assigned to the Department of Medical Genetics.

6 July 2011

L. K. BORYSIEWICZ, *Vice-Chancellor*
N. BAMPOS
WILLIAM BROWN
H. A. CHASE
SARAH COAKLEY

CHRISTOPHER CROW
SIMON FRANKLIN
ANDREW GAMBLE
C. A. GILLIGAN
DAVID GOOD

RACHAEL PADMAN
J. RALLISON
JEREMY SANDERS
PATRICK SISSONS

Report of the General Board on the re-establishment of the Charles Darwin Professorship of Animal Embryology

The GENERAL BOARD beg leave to report to the University as follows:

1. The Charles Darwin Professorship of Animal Embryology was established in 1967, from the income of the Bles bequest, for the tenure of Professor C. R. Austin. Following the retirement of Professor Austin in 1981, the Professorship was re-established for a further single tenure. The Professorship has now lapsed following the retirement of Professor R. A. Laskey on 31 March 2011, and the Managers of the Dr E. J. Bles Fund have proposed that it should be re-established for a further tenure.

3. The General Board recommend:

That the Charles Darwin Professorship of Animal Embryology be re-established from 1 October 2012 for one tenure, placed in Schedule B of the Statutes, and assigned to a Department within the School of the Biological Sciences once the research interests of the person elected to the Professorship are known.

6 July 2011

L. K. BORYSIEWICZ, *Vice-Chancellor*
N. BAMPOS
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J. RALLISON
JEREMY SANDERS
PATRICK SISSONS

2. The General Board have accepted the Managers' proposal, which has the support of the Faculty Board of Biology and the Council of the School of the Biological Sciences. The Board have agreed that election to the Professorship should be made by an *ad hoc* Board of Electors and that candidature should be open to persons whose work falls within any aspect of Animal Embryology, excluding those whose primary interests are economical, technical or medical.

Report of the Board of Graduate Studies on future arrangements for central consideration of Graduate Student matters

The BOARD OF GRADUATE STUDIES begs leave to report to the University as follows:

1. The Board of Graduate Studies is a body established under Statute A, VI, 1(b) (*Statutes and Ordinances*, p. 9). Its membership and responsibilities are determined by Ordinance (*Statutes and Ordinances*, p. 124). This Report proposes that matters of policy relating to Graduate Students and the qualifications for which they may be registered should be transferred from the Board to the General Board through that Board's Education Committee, with consequential proposals regarding the membership of the Board of Graduate Studies and of the Education Committee. The proposals require no change in the Board's formal responsibilities. The responsibilities of Degree Com-

mittees would not be affected. Their implementation will enable the Board, which has hitherto had a very heavy agenda, to give increased attention to individual student cases and operational matters affecting Graduate Students, University institutions, Degree Committees, and the Colleges. The aims of the proposals, which have the support of the General Board and their Education Committee, are to: bring together cognate activities regardless of student type; streamline procedures to generate efficiencies (including saving academic staff time); and align policy and operations for all types of students to achieve greater clarity and equity of treatment. They complement changes in the central administrative support provided by the Office of the Board of Graduate Studies.

2. The opportunity is taken also to propose a change to the quorum of the Board's membership required for the approval of candidates for higher doctorates (paragraph 12).

Student operations

3. The Board of Graduate Studies will retain responsibility for those matters covered in the Ordinances relating to the Board and to activities covered in the regulations for Graduate Students (*Statutes and Ordinances*, p. 434), including graduate admissions and graduate scholarships.

4. Work is underway, within the Unified Administrative Service and in support of the Council's wish for integrated student services, to establish: one administrative unit with responsibility for all student records; an integrated Examinations Office (bringing together work hitherto undertaken separately by the Offices of the Boards of Graduate Studies and of Examinations); and a single office to handle all student complaints, examination appeals, and allowances.

5. As part of this work, a review is being undertaken of procedures for consideration of examination allowances for Graduate Students with the aim of establishing procedures parallel to those used by the Council's Applications Committee for other students.

6. Other actions include directing complaints by Graduate Students at the informal stage to the relevant Degree Committee for consideration rather than, as at present, them being mediated by the Board. An annual report will be made to the Board and the General Board's Education Committee providing data on the number and types of complaint and on cases considered by the Office of the Independent Adjudicator for Higher Education, and drawing out issues of general applicability that require attention by the bodies concerned with graduate education.

7. The Board would report to the General Board through consideration of its Minutes by the Education Committee, and would continue to make an annual report to the General Board and the Council.

Education and Student policy

8. In order to bring together consideration of policy matters, it is proposed that, from 1 October 2011, the matters listed below be handled by the General Board, through their Education Committee, rather than by the Board of Graduate Studies. Consideration of teaching and learning issues by a single body would allow for better consistency of policy, particularly in relation to Master's provision. It would also remove duplication of effort by reducing the number of central bodies considering graduate matters, and would expedite the processing of business. These matters are already considered by the General Board, through their Education Committee, as well as, hitherto, by the Board of Graduate Studies. The Education Committee would consult the Board of Graduate Studies where policy matters have operational implications.

(a) Educational provision, including:

- (i) approval of new courses, discontinuation of (and changes to) courses, including new M.Phil. and M.St. programmes and certificate and diploma programmes requiring Graduate Student Status;

- (ii) consideration of proposals for new graduate-level qualifications;

- (iii) consideration of proposals by Degree Committees to amend the regulations for qualifications which require registration as a Graduate Student, and for the Ph.D. Degree by Special Regulations and other qualifications which the Board of Graduate Studies currently oversees.

- (b) Quality assurance, including, for example, monitoring of External Examiners' reports (and Degree Committee responses) for taught postgraduate qualifications; postgraduate student surveys (to complement the Education Committee's monitoring of Cambridge students' responses in the National Student Survey); marking and classing criteria; and monitoring of compliance with, and review of, the Code of Practice for Research Students.

- (c) Educational policy, including, for example, postgraduate student numbers, plagiarism, transferable skills, and employability.

- (d) Minutes of other bodies: the Education Committee would consider the Minutes of the following bodies which currently report to the Board of Graduate Studies: the Postgraduate Admissions Committee, the Transferable Skills Steering Group, and the M.St. Liaison Group.

9. The transfer of these responsibilities would not require changes to the Education Committee's Terms of Reference (see <http://www.admin.cam.ac.uk/cam-only/committee/education/terms/>).

Membership

10. In light of the proposals above, it is also proposed that the membership of the Board of Graduate Studies be reduced and reconfigured to become:

Class (a): one member of the Regent House appointed by the General Board as Chairman, who shall also be a member of the Education Committee;

Class (b): six members of the Regent House appointed by the General Board;

Class (c): two members of the Regent House appointed by the Senior Tutors' Committee, one of whom should normally be a Graduate Tutor.

Given the predominantly reserved nature of the business, student membership of the Board would no longer be appropriate.

11. It is also proposed that the membership of the Education Committee be augmented by the addition of a second appointee, appointed by the General Board, from the membership of the Board of Graduate Studies and a second student member as a graduate student representative (this person to be the graduate student member of the General Board in class (d) of the General Board's membership).

12. At present eight members of the Board of Graduate Studies, present at a meeting, are required for the approval of candidates for Higher Degrees, that is, the Sc.D., Litt.D., D.D., Mus.D., and LL.D. Degrees. It is proposed to reduce that number to five, the same number as are required to be present for approval of candidates for other doctorates. In practice the vast majority of recommendations by Degree Committee for approval are unanimous.

Recommendations

13. The Board of Graduate Studies accordingly recommends:

I. That the regulations for the Board of Graduate Studies (*Statutes and Ordinances*, p. 124) be amended with effect from 1 January 2012 as follows:

Regulation 1. (Membership of the Board)

By amending the regulation so as to read:

The Board of Graduate Studies shall consist of:

- (a) one member of the Regent House appointed by the General Board as Chairman, who shall also be a member of the Education Committee;
- (b) six members of the Regent House appointed by the General Board;
- (c) two members of the Regent House appointed by the Senior Tutors' Committee, one of whom shall normally be a Graduate Tutor.

Members in classes (a) and (b) shall be appointed in the Michaelmas Term to serve for four years from 1 January next following their appointment. Members in class (c) shall be appointed in the Easter Term to serve for three years from 1 October.

Regulation 5.

By deleting this regulation.

II. That the following regulations be amended:

(A) General regulations for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 497)

Regulation 1.

By deleting in the last two lines of this regulation the words ‘, and after submission to, and approval by, the Board of Graduate Studies’.

(B) General regulations for the degree of Master of Research (*Statutes and Ordinances*, p. 531)

Regulation 1.

By deleting in the last two lines of this regulation the words ‘, and after submission to, and approval by, the Board of Graduate Studies’.

(C) General regulations for the degree of Master of Studies (*Statutes and Ordinances*, p. 536)

Regulation 1.

By deleting from line 4 the words ‘the Board of Graduate Studies and’.

(D) General regulations for Certificates of Postgraduate Study (*Statutes and Ordinances*, p. 558)

Regulation 1.

By deleting from lines 4 and 5 the words ‘, and after submission to, and approval by, the Board of Graduate Studies’.

(E) Regulations for Diplomas and Certificates open to non-members of the University (*Statutes and Ordinances*, p. 567)

Regulation 2.

By deleting from lines 3 and 4 the words ‘, and the Board of Graduate Studies where appropriate’.

III. That for the following degrees the number of votes, cast at a meeting, required for a resolution to be valid be amended from eight to five;

Doctor of Music (*Statutes and Ordinances*, p. 490): Regulation 7.

Doctor of Divinity (*Statutes and Ordinances*, p. 453): Regulation 9.

Doctor of Law (*Statutes and Ordinances*, p. 464): Regulation 8.

Doctor of Science and Doctor of Letters (*Statutes and Ordinances*, p. 535): Regulation 8.

7 June 2011

JOHN RALLISON (*Chairman*)
GRAEME BARKER
DAVID CARDWELL
SARAH COAKLEY
GEOFFREY COOK

LORAINÉ GELSTHORPE
SIMON GOLDHILL
JANE HEAL
PAUL HEWETT

ROBIN HILEY
JOAN LASENBY
RACHAEL PADMAN
DAVID SARGAN

CLASS-LISTS, ETC.

Approved for degrees, diplomas, and certificates

The Board of Graduate Studies have approved the following persons for the award of degrees. In the case of degrees where dissertations are required to be deposited in the University Library, the title of the dissertation is shown after the name of the person by whom it was submitted.

Doctor of Philosophy

(under the Special Regulations for proceeding to the degree)

Kay, M. J., M.A., *T*

Doctor of Philosophy

(under the regulations for the Ph.D., M.Sc., and M.Litt. Degrees)

- Abbott, R. H., *CL*. Wordsworth's blank verses: from *The Ruined Cottage* to *The Recluse*, 1796–1806
- Ahmad, N., *HH*. Supporting the management of the engineering change process through a cross-domain traceability model
- Allard, O., *T*. Morality and emotion in the dynamics of an Amerindian society (Warao, Orinoco Delta, Venezuela)
- Arthi, ., *N*. Representations of mental illness among the Tamil community in Singapore
- Arzoumanian, S. H., *JN*. Stability of fluid-loaded structures
- Bari, A., *DOW*. Behavioural, neurochemical and neuroanatomical analysis of stop-signal task performance in rats
- Barker, A. J., *SE*. Tidal interactions between planets and stars
- Bird-Lieberman, E. L., *N*. Potential application of lectins as molecular imaging tools to detect dysplasia in Barrett's oesophagus during endoscopy
- Bowler, N. J., *T*. A unified approach to the construction of categories of games
- Bradley, C. A., *T*. The earliest motets: musical borrowing and re-use
- Brookman, H. E., *CC*. From the margins: scholarly women and the translation and editing of medieval English literature in the nineteenth century
- Brown, J., *CHR*. An analysis of functional differences in implicit learning
- Brummer, E. E., *ED*. The development of the Nuptial Allegory in early modern Venice
- Buender, T., *HH*. Structural, biochemical and genetic dissection of RPS19 function
- Butler, M. E. S., *G*. The British role in Argentine ranching modernisation and livestock biotechnology, 1830–1950
- Campbell, N. D. F., *CAI*. Automatic 3D model acquisition from uncalibrated images
- Chatzigeorgiou, M., *HO*. Neural and molecular mechanisms underlying mechanotransduction, thermosensation and nociception in *Caenorhabditis elegans*
- Chen, X., *ED*. Can Sen's and Nussbaum's capabilities approach be justified as an approach to social justice?
- Chiang, T., *K*. Mathematical and statistical models for the analysis of protein interactions
- Cho, C.-W. C., *DOW*. Development of novel endothelial cell culture systems and their applications in studying angiogenesis modulators from medicinal plants
- Church, N. S., *CLH*. Magnetic properties of iron-titanium oxides and their nanoscale intergrowths
- Clarke, A. D., *CL*. The evolution of conceptual knowledge: a spatiotemporal account of meaningful object recognition
- Coo, L. M.-L., *PEM*. Sophocles' Trojan fragments: a commentary on selected plays
- Cooper, E. S. C., *CAI*. Art, photography, copyright: a history of photographic copyright 1850–1911
- Crivellaro, F., *K*. Population boundaries and outliers: microevolutionary processes shaping human diversity in India
- da Cruz Margarido, T. C., *EM*. Studies on the PI3K-dependency of $\beta 2$ integrin distribution in mouse neutrophils
- Dautova, Y., *LC*. Atrial arrhythmias in murine hearts modelling sodium channelopathies
- Dearnley, E. C., *PEM*. French-English translation 1189–c.1450, with special reference to translators and their prologues
- Di Lillo, I., *JN*. Opera and nationalism in Fascist Italy
- Digout, A. E., *CTH*. Artful diplomacy: Nicholas I's New Hermitage in the age of the public museum
- Divakaruni, A. S., *SID*. On the regulation of mitochondrial uncoupling proteins
- Durkee, M. N., *CHU*. New approaches to higher-dimensional general relativity
- Evans, J. R., *JN*. Heterogeneity in the natural history of Parkinson's disease
- Ferguson, R. P., *PEM*. The Grove: some iconographic aspects of the architecture of Wren and Hawksmoor at Oxford and Cambridge
- Fernández, L., *N*. Studies on the biochemistry and cell biology of the glycosyl-phosphatidylinositol (GPI)-anchored NKG2D-ligands
- Gao, Y., *HH*. China in the international division of labor: an analysis at the national and the industry level
- Garrod, B. J., *T*. Problems of optimal choice on posets and generalizations of acyclic colourings
- Gerasimou, G., *K*. Essays on the theory of choice, rationality and indecision
- Gielen, S. C. M., *T*. Geometric aspects of gauge and spacetime symmetries
- Gjorgjieva, J., *T*. Spontaneous activity and plasticity in the developing nervous system
- Gold, J. M., *T*. British decolonisation, "Manpower Resource" debates and the politics of scientific governance
- Gooneratne, S. I., *CHU*. Polymer supports for solid-phase organic chemistry reactors
- Hamilton, L., *PEM*. Development of a computer-assisted system for the analysis of canine locomotion following spinal cord injury

- Heffron, Y., *T*. Household ritual in Middle Bronze Age Anatolia: an archaeological-textual study
- Hyatt, A. J. T., *F*. Fibrin gel as a delivery system for drugs, therapeutic proteins, and cells
- Ibrahim, A., *M*. United States policy towards the Caspian Region since the end of the Soviet Union
- Irvine, R. D. G., *ED*. Religious life in an English Benedictine monastery
- James, L., *N*. Calcium signal transduction in astrocytes
- Jędrusik, A. J., *PEM*. Dissecting origins and consequences of cell heterogeneity in the early mouse embryo
- Jin, X., *G*. Developing process framework of dynamic capabilities in emerging firms: a case study on Chinese commercial vehicle makers
- Johnstone, I. H., *SE*. The acted life: twentieth-century biographical drama
- Karah, H., *PEM*. An examination of the politics of blind culture in the writings of Ved Mehta: a study based on the concept of visionism
- Kienhöfer, F. W., *CHU*. Heavy vehicle wheel slip control
- Kim, K. M. E., *CHU*. Institutional change in e-government: a case study of the Government Policy Life Cycle System (GPLCS) in the Republic of Korea
- Kogbara, R. B., *F*. Process envelopes for and biodegradation within stabilised/solidified contaminated soils
- Kraman, M., *ED*. Suppression of antitumor immunity by stromal cells expressing fibroblast activation protein- α
- Kroeger, F., *CC*. The institutionalisation of trust in interorganisational economic relationships
- Lee, S. H., *W*. Mature women undergraduates and South Korean society: the dynamic interface of agency and structure in the historical process
- Liew, T. V., *M*. Leukocyte telomere dysfunction is associated with a pro-inflammatory phenotype in human atherosclerosis
- Lin, T.-H. A., *ED*. Electrically addressed silicon microresonators for biochemical sensing
- Liu, Z., *HH*. The development of inter-firm trust in different national culture contexts: cases from the animation game industry
- Mauritz, J. M. A., *SID*. Homeostasis and volume regulation in the *Plasmodium falciparum* infected red blood cell
- McCracken, I. R., *JE*. Philip Yorke, first Earl of Hardwicke and cabinet government
- Mohd Ariff Albakri, I. S., *HH*. Teacher cognition in the context of content-based instruction in English as a second language: a case study of science and English for Science and Technology (EST) teachers in Malaysia
- Mudd, A. R., *DAR*. Unity in thought and action: the categorical imperative as the common principle of reason in Kant
- Music, O., *CAI*. Flexible asymmetric spinning
- Natan, E., *CAI*. Why the tumour suppressor p53 is a tetramer
- Neale, V. R., *T*. Bracket quadratics as asymptotic bases for the natural numbers
- Ng, Y. C. S., *TH*. Aerodynamics of a hovering hummingbird wing
- Oparinde, A. O., *Q*. Impact of asset and income shocks on rural livelihoods and food security: the case of Avian Influenza outbreak and its control policies in Nigeria
- Oppitz-Trotman, G. D. C., *CC*. The origins of English revenge tragedy, ca. 1567–1623
- Palmer, C. A., *DOW*. Investigation into the visual strategies adopted for face versus object processing by typical adults and adults with developmental conditions
- Peano, I., *K*. Ambiguous bonds: a contextual study of Nigerian sex labour in Italy
- Pearson, B. C., *CL*. Using saccadic latency to assess traumatic brain injury
- Perfect, M. J., *CLH*. Celebrated fictions of multicultural London of the 1990s and 2000s
- Peters, C. J., *W*. Generation and validation of a revised clinical and molecular classification for oesophageal and junctional adenocarcinoma
- Pihler-Puzović, D., *T*. Flows in collapsible channels
- Price, B. L., *EM*. Characterisation of rhamnolipid biosynthesis in *Pseudomonas aeruginosa* PA01
- Qutob, N., *HH*. Worldwide MHC class I and II diversity in humans
- Raissi, M., *CTH*. Essays in macroeconomics
- Runguphan, T., *DAR*. Investigation on the use of Burnt Colliery Spoil as aggregate in low to normal strength concrete
- Ryan, J., *M*. Militant Islamist radicalisation: does the Internet atomise?
- Rye, C. J., *CTH*. Spatially distributed modelling of regional glacier mass balance: a Svalbard case study
- Sadat, U., *CHR*. Utility of magnetic resonance imaging for the assessment of atherosclerotic plaque in patients with carotid artery disease
- Sander, M., *CHU*. Mathematical modelling of nanoparticles from the gas-phase
- Sandy, E. E., *SE*. Lone motherhood in late-Victorian and Edwardian Poplar
- Schwierzeck, V. I., *PEM*. A role for the microRNA-210 in the immune system
- Shen, X., *SE*. Streaming video optimisation in heterogeneous Internet traffic environment
- Sherman, J. P., *EM*. Partakers of the Divine: contemplation and the practice of philosophy
- Shirley, R. A., *ED*. Theoretical insights into the combustion synthesis of titanium dioxide nanoparticles
- Skamagki, M., *CLH*. The asymmetric localization and inheritance of the key cell fate determinant *Cdx2* during the first cell fate decision of mouse development
- Speretta, E., *CAI*. Studies on the mechanism of A β aggregation and toxicity in *Drosophila*
- Stimpson, C. M., *HH*. Late quaternary environments and human impact in North-western Borneo: the evidence from the bird (Aves) and bat (Mammalia: Chiroptera) faunas from the archaeology of the Great Cave of Niah, Sarawak
- Summers, C., *W*. Neutrophil priming: effects on pulmonary transit time and bio-distribution *in vivo*

- Tan, J., *ED*. The Shaw Brothers' exploration of sex in Hong Kong films in the early 1970s
- Tan, M. L. P., *Q*. Device and circuit-level models for carbon nanotube and graphene nanoribbon transistors
- Theocharous, M., *SID*. Lexical dependence and intertextual allusion in the Septuagint of the twelve prophets: studies in Hosea, Amos and Micah
- Thorsteinsson, P. R., *CL*. Aristotle on law
- Tiefensee, C., *T*. Expressivism, minimalism and moral doctrines
- Tor, S., *JN*. Mortal and divine in early Greek epistemology
- Tsai, Y.-C., *DAR*. The RNA degradosome and its interactions with ribosome in *Escherichia coli*
- Tuerk, T., *DOW*. A separation logic framework for HOL
- Vo, Q., *JE*. The scope of British refugee asylum, 1933–93
- Vollandt, R., *JN*. Christian-Arabic translations of the Pentateuch from the 9th to the 13th centuries: a comparative study of manuscripts and translation techniques
- Wallace, L. M., *Q*. From foundation to destruction: an archaeology of early Roman London to AD 61
- Walters, T. C., *CL*. Auditory-based processing of communication sounds
- Wang, N., *ED*. The match between value chains and products: exploration study in the clothing industry
- Ward, H. A., *LC*. A comparison of dietary assessment methods: diet and coronary heart disease as an exemplar
- Yapa, H. D., *CHU*. Optimum shear strengthening of reinforced concrete beams
- Yu, R., *DAR*. The neural basis of frustration
- Zheng, H., *SE*. Complex, dynamic and co-adaptive systems: a study of language teachers' beliefs about EFL teaching and learning in the context of secondary schools in China
- Zimmermann, A. E., *CLH*. Enacting the state in Mongolia: an ethnographic study of community, competition and 'corruption' in postsocialist provincial state institutions

Master of Philosophy

EXAMINATION IN VETERINARY SCIENCE

Yussuf, M. M., *W*

Master of Studies

EXAMINATION IN APPLIED CRIMINOLOGY AND POLICE MANAGEMENT

Clement, N. A. R., *W*

Harrison, M., *W*

EXAMINATION IN APPLIED CRIMINOLOGY, PENOLOGY, AND MANAGEMENT

Head, K. M., *HO*

Saynor, R. W., *HO*

EXAMINATION IN INTERDISCIPLINARY DESIGN FOR THE BUILT ENVIRONMENT

Ahmed, M., *W*

Nikolic, A., *W*

Al Kooheji, S., *W*

Parker, M., *W*

Campbell, A. D. F., *W*

Phillips, M. J. R., *W*

Clarke, T., *W*

Yeung, C. W. Y., *W*

Ip, C. M. T., *W*

Act for the degree of Doctor of Medicine

We hereby certify that the following has kept the Act for the degree of Doctor of Medicine:

Peter John Horton, M.A., M.B., B.Chir., *R*, whose dissertation is entitled 'Studies of immunological tolerance in a canine model'.

16 June 2011

T. M. COX, *Chairman of the M.D. Committee*

N. W. MORRELL, *Assessor to the Regius Professor of Physic*

OBITUARIES

Obituary Notices

ALAN BAMFORD, CBE, JP, M.A., M.Ed., FRSA., Principal, Homerton College, 1985–91, died on 18 June 2011, aged 80 years.

TIMOTHY CHARLES EVERTON, Head of the Faculty of Education and Dean of Educational Studies, 2001–06, Emeritus Fellow of Homerton College and formerly Deputy Principal and Senior Tutor, died on 23 March 2011, aged 59 years.

GRACES

Graces submitted to the Regent House on 13 July 2011

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, 22 July 2011.

1. That the Professorship of Engineering (Grace 6 of 1 December 1965) be retitled as the Sir Kirby Laing Professorship of Civil Engineering and that a fund to be called the Kirby Laing Fund for Civil Engineering be established in the University to be governed by the following regulations:¹

KIRBY LAING FUND FOR CIVIL ENGINEERING

1. The sum of £2m received from the Kirby Laing Foundation together with other sums received for the same purpose shall form a fund called the Kirby Laing Fund for Civil Engineering.

2. The Fund shall be administered by four Managers, who shall comprise:

- (a) the Head of the Department of Engineering, who shall be Chairman;

- (b) the Sir Kirby Laing Professor of Civil Engineering;

- (c) the Head of the School of Technology;

- (d) a person nominated by the Kirby Laing Foundation and approved by the General Board.

3. The first charge on the income of the Fund shall be the stipend, national insurance, pension contributions, and associated indirect costs of the Sir Kirby Laing Professor of Civil Engineering payable by the University.

4. If and whenever the income of the Fund shall exceed the amount required to meet the costs specified in Regulation 3, the excess of the income over that amount may be applied in support of research in the field of civil engineering in such manner as may be approved by the General Board on the recommendation of the Managers.

5. Any unexpended income in any financial year may, at the discretion of the Managers, be accumulated and added to the capital of the Fund or be held as an income reserve and expended in any one or more subsequent years in accordance with Regulations 3 and 4 above.

2. That the regulations for incorporation and for the degree of Master of Arts be amended as follows:²

- (A) Regulations for incorporation (*Statutes and Ordinances*, p. 179)

Regulation 1.

Section (d).

By adding at the end of this section ‘or is a Head-elect or designate of a College;’.

- (B) Regulations for Master of Arts (*Statutes and Ordinances*, p. 432)

Regulation 3.

Section (c)(i).

By amending this provision to read ‘the Headship of a College, or being a Head-elect or designate of a College;’.

3. That, with immediate effect, the regulations for the review procedure for examinations for undergraduate and certain other qualifications be amended as follows:³

Regulation 12.

By inserting before the final sentence of the regulation the following sentence:

In considering the representations at this stage the Committee shall have power to seek statements from other persons or bodies, as they think fit.

¹ *Statutes and Ordinances*, p. 693. See the Vice-Chancellor’s Notice on p. 978.

² This Grace makes provision for the admission to the M.A. Degree (and other relevant Degrees by incorporation) of a Head-elect or designate of a College. This provision is desirable because the statutes of at least one College provide that the Head must be a Cambridge M.A. at the point of admission to the headship.

³ *Statutes and Ordinances*, p. 239. The amendment proposed is to enable a Review Committee to seek such information as they may require, to assist them in determining whether or not to dismiss a complaint.

4. That Regulation 3 of the regulations for the review of the results of examinations for postgraduate qualifications be amended by removing from the first sentence in lines 4 and 5 the words ‘by the Secretary’.⁴

5. That, on the recommendation of the General Board, the regulations for the Schools and Councils of the Schools be amended, **with effect from 1 October 2011**, as follows:⁵

General Regulations

By amending sub-paragraph (*d*) so as to read:

(*d*) One undergraduate student member and one graduate student member of the Council of a School shall be elected by the undergraduate and graduate students respectively under the constituent Faculties, Syndicates, or other Boards or Committees of Management in each School. The student members of each Council shall be elected by ballot in each academical year. The date and procedure for the election shall be determined by the Council of the School concerned, provided that the election shall not be held later than the division of the Lent Term. Students elected shall serve until the date of the election in the following Lent Term, or until such earlier date as they may, under the provisions of Statute C, IV, 2, cease to qualify for membership of the constituent institution. The returning officer shall be the Head of the School or a member of the Regent House appointed by the Council of the School.

School of Arts and Humanities

School of the Biological Sciences

School of the Humanities and Social Sciences

School of the Physical Sciences

School of Technology

In each case by replacing the words ‘student representatives’ by the words ‘student members’ in the sub-clauses of Regulation 2 relating to the student members of the Councils.

6. That, on the recommendation of the Council of the School of the Physical Sciences, and with the concurrence of the General Board, the Professorship of Theoretical Mineral Physics, established by Grace 4 of 7 June 2006, be reassigned from the Department of Earth Sciences to the Department of Physics with effect from 1 October 2011.⁶

7. That, on the recommendation of the Faculty Boards of Biology and Clinical Medicine, Regulations 2 and 3 for Clinical Lecturers be amended so as to read:⁷

2. Appointments and reappointments to an office of Clinical Lecturer shall be made by an *ad hoc* Appointing Committee consisting of the members (excluding the Chairman) of the Appointments Committee for the Faculty concerned and two (or, where the terms of the funding so require, up to four) persons appointed by the General Board on the nomination of the appropriate Health Authority or NHS Trust as additional members of the Committee for the purpose of the particular appointment or reappointment; provided that, if the Faculty concerned is a Faculty other than the Faculty of Clinical Medicine, there shall be two further members of the *ad hoc* Appointing Committee who shall be appointed by the General Board on the nomination of the Faculty Board of Clinical Medicine. The Regius Professor of Physic shall be Chairman of the Committee.

⁴ *Statutes and Ordinances*, p. 438. By Grace 2 of 21 July 2010 approval of Master’s level qualifications was devolved from the Board of Graduate Studies to the relevant Degree Committees. The regulations for the review of the results of examinations for postgraduate qualifications are being amended accordingly.

⁵ *Statutes and Ordinances*, p. 572. The inclusion of student representatives on the Councils of the Schools was approved by Grace 6 of 11 June 2008. The regulations approved allowed for election from among their number by the respective student representatives of the constituent institutions of each School. However experience of the election process during the past three years has shown that this electoral body is too small; the General Board accordingly propose that the respective electoral bodies should consist of (i) all undergraduate students and (ii) all graduate student members. This proposal has the support of all the Councils of the Schools.

⁶ *Statutes and Ordinances*, p. 720. The academic work and major teaching commitments of Professor Emilio Artacho, the holder of this Professorship, are more closely aligned with colleagues in the Cavendish Laboratory. The Departments of Earth Sciences and Physics have been consulted and agree with the academic case for the reassignment. Professor Artacho supports the reassignment of his Professorship.

⁷ *Statutes and Ordinances*, p. 732. The proposed amendments to the regulations relate to the term of a Clinical Lecturer and the composition of the Appointments Committee. They are brought forward because of changes to the way in which Clinical Lectureships are funded by the NHS, and particularly in response to the requirements of the National Institute of Health Research.

3. Appointments to a Clinical Lectureship shall be for four years excluding any period of leave approved by the General Board under Statute D, II, 6(a) and D, II, 6(b).

8. That Regulation 3 for the Scott Polar Research Institute Endowment Fund II be amended so as to read:⁸

3. The Fund shall be administered by a Board of Managers who shall be:

- (a) the Director of the Scott Polar Research Institute as Chairman;
- (b) the Librarian of the Scott Polar Research Institute;
- (c) the Head of the School of the Physical Sciences.

9. That the recommendations in paragraph 5 of the Report of the General Board, dated 1 June 2011, on the establishment of a Professorship of Education (*Reporter*, 2010–11, p. 917) be approved.

10. That the recommendations in paragraph 6 of the Report of the General Board, dated 1 June 2011, on the establishment of a Dyson Professorship of Fluid Mechanics (*Reporter*, 2010–11, p. 918) be approved.

11. That the recommendations in paragraph 5 of the Report of the General Board, dated 1 June 2011, on the establishment of a Professorship of Polymeric Materials Chemistry and Physics (*Reporter*, 2010–11, p. 919) be approved.

12. That the recommendations in paragraph 6 of the Report of the General Board, dated 1 June 2011, on the re-establishment of two Professorships in the School of Clinical Medicine (*Reporter*, 2010–11, p. 920) be approved.

13. That the recommendations in paragraph 8 of the Report of the General Board, dated 1 June 2011, on Senior Academic Promotions (*Reporter*, 2010–11, p. 920) be approved.

14. That the recommendations in paragraph 5 of the Report of the Council and the General Board, dated 13 June and 17 June 2011, on the establishment of a Regius Professorship of Engineering (*Reporter*, 2010–11, p. 956) be approved.

15. That Dr Rosamund E. Thornton (*EM*) be appointed as a Deputy University Advocate until 30 September 2011.

⁸ *Statutes and Ordinances*, p. 629. The Board of Managers of the Endowment Fund propose a revision of the composition of the Board.

ACTA

Approval of Graces submitted to the Regent House on 15 June 2011

Graces 1 and 2 submitted to the Regent House on 15 June 2011 (*Reporter*, 2010–11, p. 943) were approved at 4 p.m. on Friday, 24 June 2011. A vote is to be taken by ballot on Grace 3 (see the Council's Notice, p. 934)

Approval of Graces submitted to the Regent House on 22 June 2011

All the Graces submitted to the Regent House on 22 June 2011 (*Reporter*, 2010–11, p. 973) were approved at 4 p.m. on Friday, 1 July 2011.

Congregation of the Regent House on 23 June 2011

A Congregation of the Regent House was held this day at 11.30 a.m. The Chancellor was present. Processions formed in the Schools Arcade at 11.10 a.m. and entered the Senate-House by the East Door.

Music was performed at the Congregation by Triumph Brass, Robbie Stanley-Smith, and members of the Choirs of King's College, Trinity College, and St John's College.

The following titular degrees were conferred:

Doctor of Divinity (honoris causa)

ANITA LASKER WALLFISCH

visiting lecturer in the Faculty of Divinity, 'cellist and a co-founder of the English Chamber Orchestra, survivor of, and writer on, the Holocaust

Doctor of Law (honoris causa)

SHIRIN EBADI

lawyer and judge, formerly President of the Tehran City Court, Lecturer in Law, University of Tehran, Nobel Laureate

Doctor of Law (honoris causa)

Sir MARTIN JOHN EVANS, M.A., SC.D., F.R.S., F.MED.SCI.

Honorary Fellow of Christ's College and of St Edmund's College, formerly Professor of Mammalian Genetics in the University of Cambridge, President of the University and formerly Professor of Mammalian Genetics and Director of the Cardiff School of Biosciences, University of Cardiff, Nobel Laureate

Doctor of Law (honoris causa)

Dame ALISON FETTES RICHARD, D.B.E., M.A.

Honorary Fellow of Newnham College, of Wolfson College, and of Lucy Cavendish College, Vice-Chancellor Emerita

Doctor of Science (honoris causa)

MILDRED SPIEWAK DRESSELHAUS

of Newnham College, physicist, Professor of Physics and Electrical Engineering, and Emerita Institute Professor, Massachusetts Institute of Technology

Doctor of Science (honoris causa)

Sir PETER MANSFIELD, F.R.S., HON. F.R.C.R.

Honorary Fellow of Hughes Hall, medical physicist, Emeritus Professor of Physics in the University of Nottingham, Nobel Laureate

Doctor of Letters (honoris causa)

Sir TREVOR ROBERT NUNN, C.B.E., B.A.

Honorary Fellow of Downing College, theatrical director, formerly Artistic Director of the Royal National Theatre and Director Emeritus of the Royal Shakespeare Company

Doctor of Music (honoris causa)

Sir COLIN REX DAVIS, C.H., C.B.E.

conductor, formerly Musical Director of the Royal Opera House, President and formerly Principal Conductor of the London Symphony Orchestra

The Orator delivered the following speeches when presenting to The Chancellor the recipients of Honorary Degrees:

IPSA deficit eloquentia quae scelera illa nefaria humani generis expurgandi causa commissa satis clare depingat: ita scripsit rebus experta quae agmen nostrum iam ducit. tertia filia mediocri genere Budorgiensi oriunda, patre bona opinione iurisconsulto, ingeniosa fidicina matre, familiam dissolui, domum in egestatem redigi, parentes auiamque ad carnificem dimitti impotens spectauit. deinde in officinam chartariam missa ut nescio quae ad exercitus usum necessaria pararet diplomatis liberi commeatus fingendis nonnullos alios captiuos et eum qui Vlixei similis ligneo equo usus gloriam adeptus est cum sorore adiuuit ut e manibus hostium elaberentur. qua re tandem patefacta fuga se recipere nequibant: arripiuntur ambae puellae, damnantur, in locum illum publicae custodiae et necis cuius nomen horret omnis bonos coniciuntur. nec dubium est quin illic moriturae fuerint nisi haec mulier in fidibus maiusculis canendis habilis in carceris cateruam musicam ascita esset. 'ex istis locis caede plenis,' inquit, 'dum canebamus ad regna altiora quam ut mors sordes pestilentia attingere posset nos extulimus.'

uitam a Musis conseruatam rei musicae dedicauit. aetate iam progrediente haec mulier horrendum in modum cruciata quae uictimae partem tueri nescit, quae humanitatem suam saeuissimo hominum furore dementia crudelitate temptatam integram seruauit, e flammis et exitio fletu ut dicam fortunae uindicata non ad otium quamuis meritum se confert sed flebili in libello, in contionibus omni in ora habitis, apud iuuenes alios et praesertim in Schola nostra Theologiae claram uocem tollit ut omnes quibus haec nefanda fabulae esse uideantur uerum accipiant.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregiam hanc mulierem, in Schola Sacrae Theologiae nostra hospitis iure praelectricem adscriptam, fidicinam inter conditores Cateruulae Symphoniacae Anglicae numeratam, eius necis quae ὀλόξανστος dicitur superstitem et scriptorem,

ANITA LASKER WALLFISCH

ut honoris causa habeat titulum gradus Doctoris in Sacra Theologia.

'WORDS can never convey the abomination that took place in the name of cleansing the human race.' So wrote our first honorand, having witnessed the horror at first hand. She was born in Breslau, the third daughter of a middle-class Jewish family, her father a respected lawyer, her mother a talented violinist; she was forced to watch as that family was torn apart, as they were reduced to poverty, as her parents and grandmother were sent off to the death camps. Ordered then to work in a paper factory producing goods for the war effort, along with her sister Renate she forged travel documents which enabled many prisoners of war to flee to safety, among them Eric Williams, who escaped Stalag Luft III by means of a wooden horse. But their deception was discovered, and there was no escape. The girls were arrested, found guilty, and sent to Auschwitz, that place of imprisonment and slaughter whose name will for ever cast a shadow over humanity. Nor is there any doubt that both girls would have met their deaths there, had not Anita, who was able to play the 'cello, been adopted into the Camp Orchestra. 'We were able to raise ourselves high above the inferno of Auschwitz,' she says, 'into spheres where we could not be touched by the degradation of concentration camp existence.'

The life which music had saved she dedicated to music. Now, supposedly, she is retired. But this woman who has seen such terrible suffering but refuses to be a victim, who managed to preserve her sense of humanity despite the worst assaults of human madness and cruelty, who was snatched, as it were, by fortune from the fires of destruction, has not taken up the life of ease which she so deserves. Instead in a remarkable and moving book, in lectures and talks the world over, in meetings with young people elsewhere and in our own Faculty of Divinity she raises a clear voice so that all those to whom these abominable deeds run the risk of appearing a mere story, might Inherit the Truth.

Distinguished Chancellor, members of the University, I present to you

ANITA LASKER WALLFISCH,
*visiting lecturer in the Faculty of Divinity, 'cellist and a co-founder of the English Chamber
 Orchestra, survivor of, and writer on, the Holocaust,*

that she may receive the title of the degree of Doctor of Divinity, honoris causa.



QVID faciatis si nomen ad sicarios relatum reperiatis? quod quidem ei accidit quam nunc honoramus cum de caede a republica iussa quaereret; nec iam superstes esset nisi nescio quis magistratus religione constrictus festis diebus necare timuisset. sed longius est nobis repetendum.

haec prima erat femina quae in ordinem iudicum ascita Teheraniae iudicio praesideret. conuersa tamen republica ab eisdem sacerdotibus quibus contra regem molientibus rerum nouarum cupida fauerat de dignitatis gradu demota ad tribunal cui antehac praefuerat scribae officio iussa est fungi. de iniquitate ita re docta pro feminis, pro liberis, pro omnibus qui iniquo iudicio circumuenti sunt causas dicere coepit. et non modo nullo stipendio affecta est, uerum etiam summis periculis se obtulit. nam apostata dicitur, religionis suae proditrix, sacrarum legum doctrinaeque oppugnatrix: non tamen Prophetiae praecepta sed pontificum barbatorum seueriores sententias labefactat; religionem paci, iustitiae, liberalitati deuotam non odit, non abiurat, non prodit, sed uerum eius ingenium colit et defendit. itaque fictis moris eam impediunt, uim carcerem percussorem ei minantur, num quis uocem eius tandem sit compressurus postulant. sed deterreri non uult, contineri nequit, conticescere nescit: cum qualibet in urbe de patria excitanda sermonem habet tot milia in congressum ire cupiunt ut nulla cauea turbam auidam capere possit. cum nuntiatum esset eam palmis Nobelianis coronatum iri, tanta hominum frequentia ad salutandum concurritur ut etiam ei quos penes est reipublicae administratio eam laudare coacti sint. mox tamen nomisma eripuerunt, bona publicauerunt, sororem innocentem in carcerem coniecerunt. sed etiam nunc in exilium eiecta consilio quod ad iura hominum defendenda condidit praesidere pergit. bene enim illo Persarum prouerbio praecipitur: seruitium si euertere nequeas, aliis saltem esse monendum.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregiam hanc mulierem, iurisconsultam et iudicem, urbis Teheraniae iudici quondam praesidem, eiusdem urbis in uniuersitate iuris praelectricem, palmis Nobelianis coronatam,

SHIRIN EBADI

ut honoris causa habeat titulum gradus Doctoris in Iure.

WHAT would you do if you found your name on an assassin's list? That is exactly what happened to our second honorand while investigating a case of murder ordered by the state. And she would not be alive today had not some magistrate, stayed by religious scruple, been afraid to order her death in the holy month of Ramadan. But I anticipate myself.

She had been the first woman to be appointed to the bench and preside in the Tehran City Court. But after the Islamic Revolution she fell foul of the very clerics whom she had supported against the Shah. Demoted from office, she was ordered to serve as a clerk in the court over which she had formerly presided. Experiencing the injustice of the regime for herself, she began a practice to represent the rights of women, of children, and of all those who had similarly been mistreated. Not

only did she do this unpaid, she exposed herself to the gravest danger. Apostate, they call her, traitor to her religion, opponent of Islamic law and doctrine. But it is not the teachings of the Prophet she opposes, but the oppressive opinions of self-important clerics. She does not hate Islam, a religion dedicated to justice and fairness, whose very name means Peace, she does not reject it, she does not betray it, but cherishes and defends its true character.

*And so they invent obstacles to obstruct her. They threaten her with violence and gaol and assassination. 'Someone stop this woman,' they cry, 'or we'll shut her up ourselves!' But she will not be intimidated. They cannot stop her. She cannot be silenced. Whenever she talks about her memoir, *Iran Awakening*, such are the crowds eager to hear her that no auditorium can hold them. When it was announced that she had won the Nobel Prize for Peace so many came to greet her that even the government was forced to offer its congratulations. But they stole her medal; they confiscated her assets; they even threw her sister, guilty of no crime, into prison. Even so, from exile she continues to chair the Defenders of Human Rights Center which she founded, because, as the Persian proverb tells us, 'If you do not have the power to overthrow the rule of oppression, you must at least inform others of it'.*

Distinguished Chancellor, members of the University, I present to you

SHIRIN EBADI,

lawyer and judge, formerly President of the Tehran City Court, Lecturer in Law, University of Tehran, Nobel Laureate,

that she may receive the title of the degree of Doctor of Law, honoris causa.



EST in cuiusuis animalis partu inchoato cellula quaedam mirabilis, stirps ipsa uitae, Neque ad hanc rem neque ad illam aptius conformata, sed continuo diffusa fecunda genetrix progeniei numerosae quae

omnia transformat sese in miracula rerum,
osque lacertososque toros albasque medullas.¹

quas cellulas repertas hospes hic noster dum apud nos laborat e murino partu sublatas in patellam uitream inserit, colit, augeri cogit. particulam porro genetricem alteram e nucleo elidit, alienam alteram incit ut cellula tandem uicariam in matrem inserta murium gens quolibet corporis habitu exoptato praedita exoriatur. iam si percontari uultis quid in animali efficiat particula nescio quae genetiua, eadem e nucleo excussa murem natum obseruate! aut si quid medicamenti est probandum, murem ad usum conformate! o paruulorum uitae secretorum indagator, o admirabilis murinae gentis in usum inuestigatoris creatae quasi progenitor, quid mirum si honores Nobelianos consecutus es?

sed quo tandem haec inuestigatio? quid demum prodest? hoc unum exemplum adduco: fiet ut cellulae adulto e corpore ereptae, ut summae cutis ramenta, quibus potestas illa pristina se multiplicandi et conformandi sit restituta, forma conuersa membrum sanum producere cogantur non respuendum quia non alienum quod pro parte morbo affecta in corpus aegrum substituat.

xiii abhinc annos a nobis discessit ut apud Tamienses in professoris cathedram ascenderet. mox amplissimum honorum gradum adeptus toti Vniuersitati iam praesidet. hodie huic nostro filio reduci iamdudum purpureo ornato pallium alterum alio colore subsuto laeti donamus.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregium hunc uirum, equitem auratum, Magistrum in Artibus, Doctorem in Scientiis, Societatis Regalis Sodalem, Academiae Scientiarum Medicarum Sodalem, Collegi Christi nec non Collegi Sancti Edmundi honoris causa Socium adscitum, rei geneticae animalium mammatorum quondam apud nos postea apud Tamienses professorem, Vniuersitatis Tamiensis praesidem, laureis Nobelianis coronatum,

MARTIN JOHN EVANS

ut honoris causa habeat titulum gradus Doctoris in Iure.

THERE exists in the embryo a special kind of cell, called a stem cell, lacking specialisation, suited to no particular task, but able to reproduce itself almost without limit, and to transform itself into any type of tissue—bone, say, or muscle, or white marrow. These cells our honorand discovered while working here in Cambridge: he extracted them from a mouse embryo, cultured them in vitro, and persuaded them to multiply. But more than that he could alter their genetic code, removing a gene here, inserting a new one there, so that when the cell was implanted into a surrogate mother mouse he could produce an entire rodent lineage with any trait he desired. If you want to know what a particular gene does in the mature animal, you can now remove it from the stem cell and examine the mouse that arises. Or if you have a drug to test, you can design your ideal experimental subject. In this way he has probed the minutest details of mammalian genetics; and he created the line of modified mice used in laboratories throughout the world. Rightly they are called ‘knock-outs’, and rightly he was awarded the Nobel Prize.

Where next for this research? Of what practical use is it? I mention one example. Already cells taken from an adult body—a sample of skin, perhaps—can have the stem cells’ power of proliferation and protean differentiation restored to them; one day we shall be able to make them grow into any desired tissue so as to repair damaged organs, and because the cells are the patient’s own, there will be no danger of rejection.

In 1999 Sir Martin left us to take up a Chair in the University of Cardiff. Ten years later he became their twenty-second President. Now he returns to us so that we may honour him, and since he already has the scarlet gown of a Doctor of Science, today we offer him one faced with a different colour.

Distinguished Chancellor, members of the University, I present to you

Sir MARTIN JOHN EVANS, M.A., SC.D., F.R.S., F.MED.SCI.,
 Honorary Fellow of Christ’s College and of St Edmund’s College, formerly Professor of
 Mammalian Genetics in the University of Cambridge, President of the University and formerly
 Professor of Mammalian Genetics and Director of the Cardiff School of Biosciences, University of
 Cardiff, Nobel Laureate,

that he may receive the title of the degree of Doctor of Law, honoris causa.

¹ See Virgil *Georgics* IV 441f.



QUID opus est hanc uobis mulierem commendare, magistri (pertrito dicto ignoscatis Qobsecro), quam saepius in hoc suggestu sedentem ad quem nunc adstat uidimus?

corpus non magnum magni laboris patiens incredibilem celat animi uirtutem et firmitatem. mens propositi tenax si quid opera dignum suscipit, in id incumbit neque ullum tempus a labore intermittit. in rebus administrandis consensionem iusso maioris facit: per vii annos huius Academiae praeses Collegia xxxi non tantum cum uniuersitate uerum etiam inter se nonnumquam discordia cunctis uiribus contendebat ut in negotio conficiendo communi communem operam conferrent; et in Vniuersitatem e Collegiis concretam usurpando uocabulum nouum nostrum in sermonem induxit quod iam omnium in ore auditur. sermone quidem libero et candido omnia consilia cum consociis, cum alumnis, cum quibuslibet aliis conferre uolebat. deinde cum ad dicendum aggressa est, seu ut bibliothecario longum ob ministerium gratias ageret, seu augustissimam reginae maiestatem uerbis grauioribus in hoc senaculo fideliter alloquendi causa, tanta eloquentia ualebat ut animos audientium semper permoueret. luxus et imperi insignium non erat cupida: non enim diuitis carruca sed rubra birota obsoleta quasillo ornata uehi delectabatur.

eadem instituit ut legatio quotannis peregre duceretur; octingentesimo nostro anno Academiae res gestas concelebrauit; audacem rei nummariae petitionem direxit. quos inter labores marito carissimo adiuuante pitheciis suis uacare numquam desiit. apud ea quidem diuturnae obseruationis causa duodecimum quemque mensem in Hannonis insula rude tugurium habitabat. et cura Academiae successoris tradita cum primum a senaculo discessisset, ad ea, ut ferunt, statim se contulit.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregiam hanc mulierem, Excellentissimi Ordinis Imperi Britannici Dominam Commendatricem adscriptam, Magistram in Artibus, Collegiorum Newnhamensis, Wolfsoniani, Luciae Cauendish honoris causa sociam adscitam, dignissimam nostram Procancellariam emeritam,

ALISON FETTES RICHARD

ut honoris causa habeat titulum gradus Doctoris in Iure.

IT is a commonplace to say 'Our next guest needs no introduction.' But in this case I hope I may be forgiven, since there now stands before the dais a woman whom we have been more accustomed to see sitting upon it.

Her enormous energy is a source of no small wonder to all who know her. Indefatigable in her purpose, when once she is set upon a course of action she works tirelessly for its accomplishment, and no obstacle can deter her. In leadership it is consensus that she values more than command. Throughout her seven years as our Vice-Chancellor she strove to ensure that the University and its thirty-one Colleges, who sometimes find it as difficult to agree with one another as with the centre, should work together to achieve our common aims. Indeed, in talking often of 'Collegiate Cambridge' she introduced a new phrase to our language, and not just a modish buzz-word, but one which is now on everyone's lips. Communication, too, is important to her. Everything was a matter for discussion, with colleagues, with alumni, with the wider community. And when she came to give a speech, whether to thank a library assistant for long and dutiful service or to proclaim our loyal address to the Queen's Most Excellent Majesty, such was the power of her oratory that she always won the hearts and minds of her audience. The trappings and perquisites of office did not attract her: not for her the chauffeur and limousine—she prefers her battered red bicycle with its wicker basket.

It was she who established the annual custom of leading large delegations to promote the University abroad; it was she who led the celebrations of the University's achievements in our eighth centenary

year; and it was she who guided us through the most ambitious fundraising campaign of any British university. Amid such great labours, and supported by her devoted husband, she somehow always managed to find time for her sifakas. Every year she would spend time living among them in a Madagascan hut to continue her decades-long project of tagging and observation. And when she had handed over the care of the University to her successor, as soon as she left this Senate-House it was to them, so they say, that she immediately returned.

Distinguished Chancellor, members of the University, I present to you

Dame ALISON FETTES RICHARD, D.B.E., M.A.,
Honorary Fellow of Newnham College, of Wolfson College, and of Lucy Cavendish College,
Vice-Chancellor Emerita,

that she may receive the title of the degree of Doctor of Law, honoris causa.



Ἄριστον μὲν ὕδωρ, ὃ δὲ χρυσὸς αἰθόμενον πῦρ
ἄτε διαπρέπει νυκτὶ μέγανος ἔξοχα πλούτου.

ita Pindarus. mihi tamen, si de elementis quaerimus, nil laude dignius uidetur quam carbo. quo enim adempto quod genus animantium exoriri poterat? nec minus mirifica est formae et naturae eius uarietas. nam interdum fit ut atomi cancellatim instructae crystallum pellucidum producant tanta firmitate ut adamas dicatur quia nequeat domari; aut interdum laminae lubricosissimae ex annulis senarum particularum concretae in glaucam materiam coeunt quae nomen ducit e γράφειν. tum autem laminae longas in fistulas complicantur ferrum robore superantes sed adeo tenues ut earum quinquaginta milia capillum transuersum haud aequent. forma iterum mutata pusillos iam globulos uidemus, iam spumae similem congeriem aere uix densiorem.

taceto igitur Pindarus dum carbonem celebramus, et carbonis callidissimam inuestigatricem. illustrissima enim haec mulier quam uidetis, magistri, humili loco nata, Collegi Hunteriani alumna, elaboratorii nostri Cauendishiani quondam hospes, inter omnes qui de rerum densiorum natura quaerunt adeo eminent ut disciplinae suae caput et quasi regina esse uideatur. reginam dixi? immo, ueram matremfamilias dicamus eam cuius inter collegas maritus neptisque numerantur. quo pacto in carbonis atomo particulae electronicae se conformarent incensae lucis radiis illustrauit. eas quas supra memorauit fistulas existere praeuidit, uim electronicam in longitudinem transmittere sed in transuersum repugnare praedixit, experimentis temptauit. tum demum discipulorum diserta est praeceptrix, inuestigatorum sapiens procuratrix, mulierum quae laudem e rebus scientificis spectant impigra propugnatrix. si quamobrem eam honoremus requiritis, non una est causa sed mille.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregiam hanc mulierem, Collegi Newnhamensis alumnam, rerum naturae indagatricem, rei physicae et ingeniariae electricae professorem in Instituto Technologiae de Massachusetts et eiusdem Instituti professorem emeritam,

MILDRED SPIEWAK DRESSELHAUS

ut honoris causa habeat titulum gradus Doctoris in Scientiis.

‘WATER is best,’ wrote Pindar, ‘and gold, like a blazing fire in the night, stands out supreme of all lordly wealth.’² But if we are talking of elements, none seems to me more worthy of praise than carbon. Without it, there could be no life on earth. And then, the variety of its forms is amazing. Sometimes its atoms form a clear, crystal lattice of adamantine diamond, that most indestructible of materials. Then again six-fold rings of atoms form slippery sheets of graphene which stack on top of one another in dark graphite. Or the sheets may bend into long nanotubes, each less than one fifty-thousandth the width of a single human hair, but with a tensile strength greater than that of steel. In yet another form we see tiny buckyballs; or nanofoam, scarcely denser than air.

So let Pindar be silent while we praise carbon, and carbon’s most skilful investigator. The woman you see before you, risen from humble beginnings in the Bronx, educated at Hunter College, a visitor once to our Cavendish Laboratory, so stands out among condensed matter researchers that she appears the very head and, as it were, queen of her discipline—or perhaps we should rather say matriarch, since she counts her husband and granddaughter among her colleagues. Using lasers she revealed the electronic structure of graphite. She predicted the existence of carbon nanotubes, she foresaw that they would conduct electricity in one direction and not the other, and she proved it by experiment. She is, moreover, a most eloquent teacher of students, a wise adviser of graduate researchers, and a tireless advocate and champion of women in science. She is loved and respected by all those in her field, to whom she is known simply as Millie.

Distinguished Chancellor, members of the University, I present to you

MILDRED SPIEWAK DRESSELHAUS,
*of Newnham College, physicist, Professor of Physics and Electrical Engineering and Emerita
Institute Professor, Massachusetts Institute of Technology,*

that she may receive the title of the degree of Doctor of Science, honoris causa.

² *Olympian* 1 1–2, translated by Diane Svarlien.



Kαινοτομεῖν αἰὺν Γραεὶ σὶ quem aliquid noui excogitauisse uolunt dicere. hunc tamen uirum, cui puero magister quidam monuit ne scientiae studeret, cum nouam facultatem et aciem uidendi chirurgus dederit sine ullo scalpello aut ferro totam artem diagnosticam nouasse recte affirmamus. quae res cum ipsa difficilis est narratu, tum oratorem impedit patrii sermonis egestas,

sed quia uera tamen ratio naturaue rerum
cogit, ades, paucis dum uersibus expediamus
semina aquae nostros liquidae superesse per artus
quorum quaeque suo minimae uersentur in axe
partes ut torto uolitet sub uerbere turbo.
iam lapis adductus, ferrum qui ducere gaudet,
quem Magneta uocant patrio de nomine Grai,
has ad se traheret, si posset, corriperetque.
sed quia eas cohibet sibi copia materiai
motus immutant incuruos ordine certo
ut polus unus sit gyrum qui derigat omnem.
exinde inicias radiorum lucida tela
conuenienti ui prorsus properantia cursim,
ictibus innumeris impulsus flectitur axis,
labitur, et recta fugit a regione uiai.
extinctis radiis resilit retroque residit,

at quia praecepto certo natura creatrix
 nullam uim patitur de nilo sponte creari,
 nullam deleri sinit atque in nil reuocari,
 umoris partem minimam corpusculum eadem
 qua ui percussast opus est emittere lucis,
 haec magis ut niteant ubi tractat saeua potestas
 Magnetis lapidis, tenebrosius haec ubi mitis.
 nec mora, consiliis sollers quae cogitat hic uir
 ante oculos subito species cadit intuma rerum
 implicita ut liceat iam cernere uiscera, si uis,
 iam cor dum pulsat uiuens in pectore uiuo.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregium hunc uirum, equitem auratum, Regiae Societatis Sodalem, Regii Radiologorum Collegi Sodalem honoris causa adscitum, Aulae Hugoniana Socium honoris causa creatum, rei physicae professorem emeritum in Vniuersitate Snotinghamiensi, naturae acrem ac diligentem inuestigatorem palmis Nobelianis coronatum,

PETER MANSFIELD

ut honoris causa habeat titulum gradus Doctoris in Scientiis.

THE Greek word for 'innovate' literally means 'cut anew'; but we have before us a man who, through the development of the medical MRI scan, we can rightly say has revolutionised the diagnostician's art, without the use of a scalpel. The principle is not easy to explain, and the difficulty is compounded by the traditional mode of speech we adopt in our ceremonies ...

... but yet because true reasoning and the nature of things constrain us, give heed, while in a few verses we set forth that there is an abundance of water molecules throughout our limbs, some of whose nuclei spin, each on its own axis, like a child's top. The stone which the Greeks call magnet after the place where it is found, as it rejoices in attracting iron, so too it exerts a force upon these nuclei, and would draw them to itself, if it could; but since they are held fast by the stock of matter they align their spinning motions in a fixed direction so that one axis of rotation directs them all. Then, if radio waves of correct frequency are cast upon them, rushing in at the speed of light, struck by countless invisible blows the axis is deflected and bends away from its proper place. These waves once more extinguished, the axis springs back and resumes its former direction. But since by thrifty decree Nature, the Creator of the Universe, does not suffer energy to arise spontaneously from nothing, nor again to be destroyed and return to nothing, each nucleus must needs send forth a particle of light having the same energy as that with which it was struck, so that where the magnet's pull is strong they shine forth more brightly, more dimly where it is weak. There is no delay: through cunning algorithms devised by our honorand images of the inmost recesses of things quickly fall before our eyes, so that we can examine the twisted coils of viscera, if we wish, or living heart beating in living breast.

Not bad, for someone whose teacher told him that he had no future in science.

Distinguished Chancellor, members of the University, I present to you

Sir PETER MANSFIELD, F.R.S., HON. F.R.C.R.,
 Honorary Fellow of Hughes Hall, medical physicist, Emeritus Professor of Physics in the
 University of Nottingham, Nobel Laureate,

that he may receive the title of the degree of Doctor of Science, honoris causa.



MAIORES nostri artem ludicram aliam alii Musae curandam discripserunt; in qua re si non errauerunt hic uir nobis honorandus haud potest fieri quin non huic aut illi sed omnium Musarum toto choro habeatur carissimus. nam cum utriusque huius ciuitatis maximo theatro, alteri Shakespeariano, Populari alteri, summa cum laude praefuit, tum etiam apud eos qui quaestui fabulas habeant immortalitatem sibi parauit. si igitur idem histrionibus in cuneis spectantibus comitem Caladarensis de re publica capienda coniurantem, idem uitam facinorae tuae, Nicolae, magistrorum scelestorum pestis, octonas in horas producta in scaenam induxit; si eo duce et cothurnis indutis uir mendicus et membris debilis puellam e lenonis manibus seruauit, et tu, miser Iohannes, plus quam annos xxv spectatorum clamores excitauisti; si denique etiam in theatrum cinematographicum artem suam intendit, utrum a paucis illis senibus seuerioribus stemus qui auram populariorem eum captare querantur (ain tu? nonne uates ipse Aufonensis etiam aliquid coronae dare solebat?) an cum hospite nostro consentiamus: num quid interesse inter quas maiores scripserint fabulas, quasque nostra producat aetas? aut quibus graues serique modi concinant, quibusue leuiore?

Academiae suae non immemor cum Societas Marlowensis nuper annum centesimum celebraret fabulam Cunobelinum in qua olim partem egerat plaudentibus omnibus docuit. et licet non sit qui munificentiam iactanter ostendet, quis tamen nescit Φιλοθεαμόνων nostrae Sodalitatis theatro publica collatione tam opipare restituto liberalissimum hunc uirum donum atque cumulum esse largitum?

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregium hunc uirum, equitem auratum, Excellentissimi Ordinis Imperi Britannici Commendatorem, Baccalaureum in Artibus, Collegi Downingiani honoris causa Socium adscitum, histrionum magistrum, Popularis Theatri Regalis olim rectorem, Cateruae Regalis Shakespearianae rectorem emeritum,

TREVOR ROBERT NUNN

ut honoris causa habeat titulum gradus Doctoris in Litteris.

I*F the ancients were not in error when they allotted each dramatic art to the care of a different goddess then surely our next honorand is loved not by this Muse or that, but by their entire band. He has been the director of both the Royal Shakespeare Company and the Royal National Theatre, but he has also enjoyed unparalleled success in the commercial theatre. His staging of Macbeth, the actors watching the action along with the audience, was ground-breaking; but so was his Nicholas Nickleby, an eight-hour epic. He excels at opera, too: his Porgy and Bess was the talk of Glyndebourne; but his production of Les Misérables has been drawing West End audiences for twenty-five years. Some stuffy critics may have gasped at the thought of popular theatre at the RSC, but so what? Did not the Bard of Avon himself play to the gallery? He would surely have agreed with our honorand, and so shall we: 'I've never had any feeling of disconnection,' he says, 'between the classical theatre, or the contemporary theatre, or musical theatre, or the thing that we call opera.'*

He is a great supporter of student drama in Cambridge. To celebrate the centenary of the Marlowe Society he directed Shakespeare's Cymbeline, in which he had once acted under Dadie Rylands' direction. And although he is not one to parade his generosity, his was the crowning gift to the appeal which made possible the recent splendid renovation of our own Amateur Dramatic Club.

Distinguished Chancellor, members of the University, I present to you

Sir TREVOR ROBERT NUNN, C.B.E., B.A.,

Honorary Fellow of Downing College, theatrical director, formerly Artistic Director of the Royal National Theatre and Director Emeritus of the Royal Shakespeare Company,

that he may receive the title of the degree of Doctor of Letters, honoris causa.



MVLTIOS abhinc annos puero quartum decimum annum nondum egresso Ludouici Moctauam symphoniam auscultanti Musae fores aperire uidebantur: 'eodem puncto temporis,' inquit, 'aetatem in musica ducere statui.' quem tamen elegerunt chori ducem Camenae quia clauicini esset imperitum Collegi Regalis magistri parum prouidi artem propositam docere nolebant. nullo igitur magistro usus scipione mesochori sibi adsumpto et ad uoces in cera impressas tractando gradatim elementa se didicit. quid plura? longum per uitae cursum ad tantam auctoritatem peruenit ut inter alios musicorum rectores peritissimos magister praecipuus et tamquam rex uideatur.

longa amicitia cum Consortione Symphoniaca Londiniensi coniunctus est—honore quidem rarissimo excogitato praesidem eum creauerunt—sed nullum est odeum, nullum theatrum quin eum accipiat, acceptum amet, amatum ad se rursus uocet. Baruthenses etiam, quibus nulla gens coram aduenis cautior esse dicitur, ei primo ex Anglis plauserunt. quonam artem non intendis, domine? 'nil est quod non mihi suscipiam!' cum enim Amadei non tantum morum modorumque uerum etiam ingeni dicitur antistes, tum etiam rerum nouarum semper cupidus quos recentior tulit aetas scriptores non modo non praetermittit, sed nonnullos minus antehac notos sempiternae gloriae commendauit. tune, quaeso, Hector Francogallorum, inter principes Muis carissimos iam numerarere, aut tu Iohannes, Finnorum deliciae iam esses, nisi per huius uiri labores?

fama nondum comparata qui apud nos olim docebat, apud nos in honore permanet. cum nuper Troianos in odeum educeret, si in uestibulo ambulasses tot municipes consociosque te offensurum fuisse ferunt ut Ambulationem nostram Regalem ad Urbem remotam existimaturus fueris.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis uirum dignum qui nominetur Ἐκτόγος μέγας ἴστωρ, equitem auratum inter comites honoratissimos adscriptum, Excellentissimi Ordinis Imperi Britannici Commendatorem, mesochorum, Theatri Cothurnati Regalis quondam musicae rectorem, Consortionis Symphoniacae Londiniensis praesidem et quondam mesochoron caput,

COLIN REX DAVIS

ut honoris causa habeat titulum gradus Doctoris in Musica.

ONCE upon a time a young boy of thirteen or fourteen was listening to Beethoven's Eighth when the very gates of Helicon seemed to be thrown open to him. That was the moment, he says, when he decided to make music his life. There was just one problem: the Royal College of Music would not allow one unskilled at the piano to learn the conductor's art. Undaunted he taught himself to wield the baton with long hours of practice conducting gramophone recordings. You know the rest: over a long and distinguished career he has gained renown as one of the world's greatest conductors.

He has enjoyed a long relationship with the London Symphony Orchestra—they even made him their President, a rare honour—but that is only part of the story. There is scarcely an opera house or concert hall where he is not known and welcomed and welcomed back. Even Bayreuth, famously wary of newcomers, lauded his Tannhäuser. His repertoire is vast ('I'm game for anything,' he says). On the one hand he has been called the 'master of Mozart's idiom, style and significance'; but on the other he is a moderniser and a champion of contemporary music. Berlioz and Sibelius owe their current popularity in large part to his labours.

Before he achieved fame he once coached our Music Society, and he has ever remained dear to us. When in 2000 he conducted The Trojans at the Barbican it is said that Cambridge society comprised such a proportion of the audience that a stroll in the foyer during the interval was just like walking along King's Parade. He is indeed the great interpreter of Berlioz.

Distinguished Chancellor, members of the University, I present to you

*Sir COLIN REX DAVIS, C.H., C.B.E.,
conductor, formerly Musical Director of the Royal Opera House, President and formerly
Principal Conductor of the London Symphony Orchestra,*

that he may receive the title of the degree of Doctor of Music, honoris causa.



At the end of the ceremony, the Orator delivered the following Valedictory Oration to The Chancellor:

LICET me patientia uestra iam satis uel satius abusum esse existimetis, magistri; sed hoc tempore tam memoria digno ampliora quaedam mihi dicenda esse iudico, praesertim cum Cancellarius hic noster officio abiturus hunc suggestum cui xxxiv annos tanto sale lepore suauitate praesidebat numquam iterum aureo pallio indutus sit ascensusus.

quis credat, domine, abhinc lix annos te primum nos salutasse? quo tempore orator alius non tam dignitatis tuae quam tui ipsius causa nos tibi titulum gradus Doctoris in Iure offerre affirmauit, neque alia causa summos apud nos honores postea tibi mandare ausi sumus. dux laudate, inter alia nomina et ornamenta sunt qui beati te imperatorem, sunt quidem remotis in oris qui te deum appellare sint soliti; nobis tamen laetissimis hoc modo te placuit uocitare, tibi a nobis placuit uocari:

dignissime domine, Domine noster carissime Cancellarie, non ego modo uerum etiam tota Academia cumulate et ex animo tibi tam longa amicitia nobis coniuncto gratias maximas agimus; precamur ut Regiam tuam Coniugem teque ipsum totamque familiam Deus Omnipotens conseruet atque custodiat; speramus denique ad hanc nostram sodalitatem non minus tibi caram quam tui amantem propediem te reditum esse.

IFEAR I have tried your patience long enough already, Masters; and yet on this memorable occasion it seems to me that there are a few more words which I ought to say. Today our Chancellor, soon to retire, will for the last time leave this Senate-House clad in his golden gown, this Senate-House over which he has presided with such wit and charm for the past thirty-four years.

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It is difficult to believe, Sir, that it was in 1952 that you first visited us. On that day in presenting you to another Chancellor another Orator said that it was not for your rank but for your own sake that we offered you the title of the degree of Doctor of Law; and it was for the same reason that later we made bold to ask you to assume the chief place among us. Your Royal Highness, among your many other titles there are some fortunate men who have called you commander, and some on a distant island who have even thought you a god; but we have been pleased and honoured to address you in the following way, and you have consented to be called by us:

Distinguished Sir, our distinguished and beloved Chancellor, on behalf of the whole University I offer you our sincere and heart-felt thanks that you have been joined with us in long friendship; we pray that Almighty God may guard and protect Her Majesty The Queen and yourself and your whole family; and we hope that you will continue to visit the University which we should like to feel you hold in no less affection than we hold our Chancellor.

REPORT OF DISCUSSION

Tuesday, 5 July 2011

A Discussion was held in the Senate-House. Pro-Vice-Chancellor Professor John Rallison was presiding, with the Registry's deputy, the Senior Proctor, a Pro-Proctor, and four other persons present.

The following Reports were discussed:

Report of the General Board, dated 1 June 2011, on the establishment of a Professorship of Education (Reporter, 2010–11, p. 917)

No remarks were made on this Report.

Report of the General Board, dated 1 June 2011, on the establishment of a Dyson Professorship of Fluid Mechanics (Reporter, 2010–11, p. 918)

Professor Dame Ann DOWLING: (Head of the Department of Engineering) (read by the Senior Proctor, Mr J. A. TREVITHICK):

Mr Deputy Vice-Chancellor, we have a significant research and teaching activity in Fluid Mechanics in the Department, but no established chair in this area. I am delighted that a donation from Dyson Ltd has provided the opportunity to address that.

The study of fluids in motion is essential to understand the performance of aircraft, cars, industrial processes, and a range of smaller-scale commercial products. Advanced instrumentation, particularly laser-based diagnostics, is giving unprecedented information on flows within complex geometries. Computational fluid dynamics can be used routinely to predict steady flows. But most flows of technological interest are unsteady and often turbulent, and computer predictions can currently give only approximations for these complex flows. An integrated experimental and computational approach is very powerful and can lead to new insights into vortical and turbulent flows, thereby opening the way to innovative concepts. The impact of such understanding on design, development, performance, energy efficiency, and noise can be significant.

We are grateful for the support of Dyson Ltd, a UK company with a track record of innovation, which is enabling the establishment of a Professorship in this field. I would like to express the Department's enthusiasm for this new Professorship and our warmest thanks to Dyson Ltd. We trust others in the University will share our enthusiasm and support the General Board recommendation that the Dyson Professorship of Fluid Mechanics be established.

Report of the General Board, dated 1 June 2011, on the establishment of a Professorship of Polymeric Materials Chemistry and Physics (Reporter, 2010–11, p. 919)

No remarks were made on this Report.

Report of the General Board, dated 1 June 2011, on the re-establishment of two Professorships in the School of Clinical Medicine (Reporter, 2010–11, p. 920)

No remarks were made on this Report.

Report of the General Board, dated 1 June 2011, on Senior Academic Promotions (Reporter, 2010–11, p. 920)

No remarks were made on this Report.

Joint Report of the Council and the General Board, dated 13 June and 17 June, on the establishment of a Regius Professorship of Engineering (Reporter, 2010–11, p. 956)

Professor Dame Ann DOWLING (Head of the Department of Engineering) (read by Dr A. T. WINTER): Mr Deputy Vice-Chancellor, I speak to express the Department's strong support for the establishment of a Regius Professorship of Engineering. This is an excellent way to commemorate the tenure of HRH The Duke of Edinburgh as Chancellor of the University and to celebrate His Royal Highness's 90th year.

The Chancellor has long been a staunch supporter of engineering. As he wrote in 2009:¹

As the ever-growing human population consumes more and more of the earth's natural resources, it is going to take all the ingenuity of inventors, engineers and designers to maintain the rate of improvements in the developed societies and to bring better standards of living to more and more people in the less prosperous countries of the world. If this is to be achieved during the 21st century, the challenges . . . will be to make sure that bright young people, whatever their background, who aspire to do something creative and fulfilling with their lives, can achieve their ambition through engineering.

Engineering, the largest department in the University, shares that aspiration: our aim is to address the world's most pressing challenges through our teaching and research. The last Research Assessment Exercise showed that it is the best general engineering department in the UK by a significant margin and, according to the QS World University Rankings Scorecard, the best in the world. With the Department's excellent network of academic and industrial connections throughout the UK and beyond, the Regius Professor will be able to play a key role in the Department's drive to address the world's most urgent challenges. These challenges are extremely diverse and include energy supply, sustainability, healthcare, economic regeneration, and risk management.

Staff and students in the Engineering Department have been encouraged and inspired through the decades by His Royal Highness's consistent and energetic support for engineering. The Department is enthusiastic about the establishment of a Regius Professorship of Engineering. This will be a landmark event in the field of engineering, making an impact not only in the UK but internationally. The Department of Engineering at Cambridge is ideally placed to realize the considerable potential of this new chair. We trust others in the University will share our enthusiasm and support the Council and General Board recommendation that a Regius Professorship of Engineering be established.

¹ *Ingenia*, Issue 41, December 2009

Report of the General Board, dated 1 June 2011, on the introduction of a Human, Social, and Political Sciences Tripos and of a Psychological and Behavioural Sciences Tripos (Reporter, 2010–11, p. 958).

Dr D. A. GOOD (Chair of the Social Sciences Tripos Management Committee) (read by Professor W. A. BROWN):

Mr Deputy Vice-Chancellor, I am commenting on this Report in my role as Chair of the Social Sciences Tripos Management Committee which the General Board established in the light of the recommendations of the Social Sciences Review Committee and after extensive consultation with the Council of the School of the Humanities and Social Sciences. The original brief given to the Committee envisaged the creation of a single Tripos which would admit its first students in Michaelmas 2012. In the first phase of its activity, the Management Committee worked hard to deliver a programme which conformed to the brief it had been given. However, after an extensive round of consultation with the relevant University and College bodies, it became clear that the proposal it had developed did not receive wholehearted support from all quarters. Nevertheless, the work the Committee had done, and the commentary which it received on the single Tripos proposal, provided the basis for the development of the Report we are discussing today. Important elements of the Committee's thinking are captured in paragraphs 5 to 8 of the Report, and I will not repeat those now, but I wish to add four further observations about the Committee's thinking in developing the proposals.

First, it is clear that many of the constituent parts of the existing Archaeological and Anthropological, and Politics, Psychology, and Sociology Triposes are based on core departments which are often smaller and differently configured to their competitors at other institutions. The Committee recognized that it was important to develop an undergraduate offering which traded on our local strengths and did not seek simply to emulate the courses offered by much larger departments elsewhere. The architecture offered by the new Triposes enables this as it readily permits the inclusion of courses from other cognate disciplines. Thus, there are many ways for students to create different forms of specialization in their studies which build on our local strengths broadly considered.

Second, while offering new educational opportunities to our students, the structure preserves the successes of the existing provision in both the Archaeological and Anthropological, and the Politics, Psychology, and Sociology Triposes.

Third, the structure of the Part I in both the PBS and the HSPS Triposes will allow students to try subjects which may not have been available to them in their secondary education, and, if they wish, to subsequently specialize in them at Part II.

Fourth, it is the firm belief of those on the Committee with knowledge of the different constituent subjects, and their varied experiences with applicants, schools, and related subjects at other universities, that the proposed Triposes will be very attractive to future applicants, and should bring to the University high quality students who may not have seen Cambridge as the place to pursue their interests as an undergraduate.

Overall, the proposals offer a major opportunity to develop the University's provision in the areas covered. Importantly, they do so in a framework which will readily permit the evolution and development of that

provision as the subjects involved grow and change in the future.

Finally, I will conclude on a personal note. I was the last Secretary of the Social and Political Sciences Tripos Management Committee, which was established by the Boys Smith Committee Report of 1967 to oversee the Part II of that name. In 1988, I was also the first Secretary of the Social and Political Sciences Faculty Board which took charge of the SPS Tripos and suppressed that original Part II replacing it with a new Part I, and a reformed Part II which had a greatly reduced engagement with cognate disciplines. The introduction of the Part I was in line with the Boys Smith proposals, but the changes to the Part II were not.

Now the wheel has turned full circle. The subjects involved have changed much since 1967, especially psychology, and these proposals reflect this. Nevertheless, the idea of an educational offering which allows students to engage with focused cross-disciplinary study or disciplinary specialization to suit their interests in these areas makes even more sense now than it did then. I am pleased that the Committee I have chaired was able to turn the wheel in this way, and I hope the University accepts the General Board's Report.

Dr K. B. PRETTY (Chair, Faculty Board of Archaeology and Anthropology and Chair-elect of the Faculty of Human, Social, and Political Science) (read by Professor W. A. BROWN):

Mr Deputy Vice-Chancellor, I speak on behalf of the current Heads of Department within the Faculty of Archaeology and Anthropology, which I currently chair.

There have been extensive consultations within the Departments of Archaeology, and Biological and Social Anthropology, about the form and content of the new Tripos in Human, Social, and Political Sciences in particular, and they support the introduction of both Triposes, which will allow undergraduates to achieve both breadth and depth across a range of disciplines. This development offers an opportunity to refresh existing papers and construct new cross-disciplinary approaches, and will strengthen the links within the new Faculty of Human, Social, and Political Science, which expects to be closely involved in the publicity for the new Tripos from this August and for its management in due course.

The Faculty Board for Archaeology and Anthropology supports the recommendations wholeheartedly.

Professor S. E. GOLOMBOK (Acting Head of the Department of Social and Developmental Psychology) (read by Professor W. A. BROWN):

Mr Deputy Vice-Chancellor, I am speaking today on behalf of myself and of Professor Trevor Robbins who is Head of the Department of Experimental Psychology. We both wish to welcome the proposal which has been put forward by the General Board for the establishment of a Psychological and Behavioural Sciences Tripos. We believe that this provides an important avenue for the development of the University's educational provision in this field that will not only attract to Cambridge very well-qualified students who have taken a mix of humanities and sciences at the age of 18 and who currently apply elsewhere, but also create a structure which will allow appropriate educational collaboration with other Departments where psychology has become part of fabric of the discipline.

In the period since the original Social and Political Sciences Tripos was established with its own distinctive mix of Social and Developmental Psychology, the subject has grown remarkably both in the scale of the enterprise it represents, and its value to a number of fields of enquiry, ranging from neurology to economics, linguistics, and anthropology. This has been aided by the development of a number of novel investigative techniques, especially in neuroscience, and a broader recognition of the value of psychology in various applied areas including social and economic policy, organizational practice, and the design of new technologies alongside the well-established areas of educational and clinical psychology. Cambridge has distinctive strengths in all these areas, but has to date not fully deployed that strength in the provision of an integrated undergraduate education. This new Tripos will remedy that failing and we fully support the General Board's proposal.

Dr D. A. SNEATH (Head of the Department of Social Anthropology) (read by Professor W. A. BROWN):

Mr Deputy Vice-Chancellor, the Department of Social Anthropology warmly welcomes the new Human, Social, and Political Sciences Tripos and looks forward to playing its part in the exciting new undergraduate education that it will make possible. We are delighted that the new Tripos will give students an enhanced spectrum of choice, particularly in the first year, and that a number of exciting new joint Part II options will be established. We hope that in the future this choice can be extended further still, and that new joint Part II degrees can be added to those already agreed.

All those involved in the new Tripos are sure to face challenges in the near future as ways are found for the new structure to work in practical terms, but we are convinced that any short-term costs will be more than outweighed by the longer-term intellectual and pedagogical benefits of the new course structure. We would like to congratulate Dr David Good on his skilful handling of this highly complex challenge, and to thank him for his commitment and hard work.

Professor A. M. GAMBLE (Head of the Department of Politics and International Studies) (read by Professor W. A. BROWN):

Mr Deputy Vice-Chancellor, the Department of Politics and International Studies welcomes the new Tripos in Human, Social, and Political Sciences. It provides extra choice for undergraduates particularly at Part I, as well as a clear set of pathways in Part II in the disciplines which comprise the new Faculty. A significant feature of the new Tripos will be the possibility of allowing students for the first time at Cambridge to specialize in Part II in Politics and International Relations, and also the possibility of combining the Politics papers with Sociology and in due course with other disciplines. The new Tripos will increase flexibility while ensuring that there is appropriate academic progression at every stage in the Tripos, as well as greater clarity as to graduates' subject identity through the provision of separate class-lists. We believe this Tripos will prove popular with applicants and will provide an appropriate framework for the development of undergraduate teaching in Politics and International Relations at Cambridge.

Professor W. A. BROWN (Head of the School of the Humanities and Social Sciences):

Mr Deputy Vice-Chancellor, I am delighted to be able to add my voice to these in support of the Report on the

introduction of a Human, Social, and Political Sciences Tripos, and of a Psychological and Behavioural Sciences Tripos. The proposal has the full support of both Faculty Boards immediately involved: Archaeology and Anthropology; and Politics, Psychology, Sociology, and International Studies. In addition to those who have spoken, the Heads of the Departments of Sociology, Biological Anthropology, and Archaeology have also stated their strong support for the statement of Dr Pretty.

The proposed new Triposes offer undergraduates courses that will place Cambridge at the forefront of psychological, human, and social science teaching. They will meet better than in the past the subject choices of sixth formers, which have changed substantially in recent decades. They will help the University to meet its ambitions in terms of improving the social mix of access to its courses. I want to thank the many colleagues who have put in so much time to working out the details of these proposals, not least those from cognate disciplines which may in due course be joined with it through optional courses. In particular, I want to place on record the debt we owe to Dr David Good and to Duncan McCallum for patiently but firmly shepherding this process thus far. The School of the Humanities and Social Sciences is enthusiastic about this major educational innovation.

Dr R. E. HUNT (Senior Tutor of Christ's College) (read by Dr A. T. WINTER):

Mr Deputy Vice-Chancellor, on 30 October 2009 the Regent House approved the Joint Report of the Council and the General Board, dated 20 July 2009 and 8 July 2009, on the requirements for the B.A. Degree with Honours (*Reporter*, 2008–09, p. 1010). The key change that this Report introduced was that 'a Cambridge Honours Degree should require satisfactory completion of a course of the depth and intellectual level typically associated with a Part II'; therefore, no person could graduate with an Honours B.A. Degree without having obtained Honours in a Part II Tripos examination (for which purpose Part IIA of any Tripos is entirely adequate so long as it is completed in the candidate's third year or later). Not everybody agreed with this change, which was introduced at the behest of the Quality Assurance Agency (QAA), but once it had been made we all had to respect it.

In the proposals before us now, the structure proposed for the Human, Social, and Political Sciences (hereafter HSPS) Tripos is a Part I followed by Part IIA (normally in the candidate's second year) and Part IIB (normally in the third year). It is therefore possible for a student to graduate with Honours having completed Part I of a different Tripos (Part I History, for example) in his or her second year, followed by Part IIA of the HSPS Tripos in his or her third year. Indeed, it is likely that this will be a popular option. The same student could *not* graduate if he or she had done Part I History followed by Part IB Philosophy, say, or Part IB Mathematics, in his or her third year. Can the General Board confirm that this is its intention, and that Part IIA HSPS will be of an intellectual standard sufficiently above that of Part IB Philosophy or Mathematics to justify this different treatment? The clear implication is that Part IB Philosophy and Mathematics are not of sufficient 'depth and intellectual level' for an Honours Degree, while Part IIA HSPS will be.

Furthermore, can the General Board confirm the maximum proportion of Part IIA HSPS that may

consist of papers borrowed from Part I (or Part IB) of another Tripos? It would make an obvious mockery of the new regulations for the Honours B.A. Degree if it were possible to complete Part IIA HSPS by taking a large number of papers that were actually of Part I standard.

The comments above all apply equally, of course, to the proposals for the Psychological and Behavioural Sciences Tripos, in which it will also be possible in Part IIA to borrow Part I papers from other Triposes.

Alternatively, is there any reason why Part IB Philosophy should not immediately be re-labelled as a Part IIA, in order to enable students to graduate having taken only the second-year course (so long as they do so in their third year)? Or, perhaps, we could re-label Parts IA, IB, and II of all existing Triposes as Parts IIA, IIB, and IIC so as to enable students to graduate having taken only the first-year courses in their third year?

COLLEGE NOTICES

Elections

Jesus College

Elected to Fellowships with effect from 1 October 2011:

John Mark David Hughes, B.A. (Hons), *JE*,
M.Stud. Theology, *Oxford*, Ph.D., *EM*
Noel Antony Rutter, B.A. (Hons), Ph.D., *JN*

Queens' College

The Fellows of Queens' College give notice that they have appointed the Rt. Hon. John Leonard Lord Eatwell, President of Queens' College, to continue in office after the expiry of his current term for a further period of five years, until the end of the academic year 2016–17.

Robinson College

Elected into a Fellowship in Class B with effect from 1 October 2011:

Dr Kevin James Chalut, B.A., *Albion College*, Ph.D.,
Duke University

Vacancies

Girton College: Director of Chapel Music and Assistant Director of College Music; £27,319–£28,983 pro rata to 30% or 50% of a full-time appointment; tenure: four years; closing date: 24 August 2011; further particulars: <http://www.girton.cam.ac.uk/vacancies/academic>

Trinity College: Junior Research Fellowships; stipend up to £23,935 a year plus benefits; closing date: noon, 1 September 2011; further particulars: <http://www.trin.cam.ac.uk/jrf> or jrf@trin.cam.ac.uk

Trinity Hall: Post-doctoral Research Associateships; tenure: two years; closing date: 5 August 2011; further particulars: http://www.trinhall.cam.ac.uk/about/current_vacancies.asp or dk295@cam.ac.uk

SOCIETIES, ETC.

Cambridge Philosophical Society

The Society has initiated a programme of Henslow Research Fellowships in the natural sciences, engineering, computing or mathematics for promising early career research workers to carry out independent research for a period of up to three years.

During the Michaelmas and Lent Terms the Society offers a series of evening lectures on the latest advances in science and technology, which are open to the wider public. There is also an annual Honorary Fellow's Lecture by a distinguished scientist.

For more information, visit <http://www.cambridgephilosophicalsociety.org>.

EXTERNAL NOTICES

Oxford Notices

Department of Education: Professorship of Education; closing date: 29 August 2011; further particulars: http://www.ox.ac.uk/about_the_university/jobs/fp/

Exeter College: Major Gifts Officer; salary: £29,099–£35,788; closing date: noon, 20 July 2011; further particulars: <http://www.exeter.ox.ac.uk/college/vacancies> or college.office@exeter.ox.ac.uk

Hertford College: Chaplain; closing date: 15 July 2011; further particulars: <http://www.hertford.ox.ac.uk> (see advertised posts)

Merton College: One-year three-hour stipendiary lecturer in Physical Chemistry; stipend: £6,093 with additional benefits; closing date: noon, 20 July 2011; further particulars: <http://www.merton.ox.ac.uk/vacancies/index.shtml> or victoria.lill@merton.ox.ac.uk

Sir William Dunn School of Pathology: Professorship of Pathology; closing date: 5 September 2011; further particulars: http://www.ox.ac.uk/about_the_university/jobs/fp/

St Antony's College: Research Fellow in Russian Society and Culture; stipend: £31,798; closing date: 22 July 2011; further particulars: <http://www.sant.ox.ac.uk/people/vacancies>

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