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UNIVERSITY OF
CAMBRIDGE

NOTICES**Calendar**

28 June, *Wednesday*. Scarlet Day. Congregation of the Regent House at 10 a.m. (General Admission).

29 June, *Thursday*. Scarlet Day. Congregation of the Regent House at 10 a.m. (General Admission).

30 June, *Friday*. Scarlet Day. Congregation of the Regent House at 10 a.m. (General Admission).

1 July, *Saturday*. Scarlet Day. Congregation of the Regent House at 10 a.m. (General Admission).

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

21 July, *Friday*. Congregation of the Regent House at 10 a.m.

22 July, *Saturday*. Congregation of the Regent House at 10 a.m.

Discussion on Tuesday, 11 July 2017

The Vice-Chancellor invites those qualified under the regulations for Discussions (*Statutes and Ordinances*, p. 103) to attend a Discussion in the Senate-House on Tuesday, 11 July 2017, at 2 p.m., for the discussion of:

1. First-stage Report of the Council, dated 26 June 2017, on the alteration and refurbishment of two buildings on the Old Addenbrooke's site (p. 694).
2. First-stage Report of the Council, dated 26 June 2017, on the construction of a new Shared Facilities Hub building in West Cambridge (p. 695).
3. Report of the Council, dated 26 June 2017, on a new geological collections building for the Department of Earth Sciences (p. 697).

Amending Statutes for Corpus Christi College

26 June 2017

The Vice-Chancellor begs leave to refer to his Notice of 24 May 2017 (*Reporter*, 6468, 2016–17, p. 564), concerning proposed amending Statutes for Corpus Christi College. He hereby gives notice that in the opinion of the Council the proposed Statutes make no alteration of any Statute which affects the University, and do not require the consent of the University; that the interests of the University are not prejudiced by them, and that the Council has resolved to take no action upon them, provided that the Council will wish to reconsider the proposed Statutes if they have not been submitted to the Privy Council by 26 June 2018.

Election to the Board of Scrutiny

20 June 2017

As no persons were nominated to serve on the Board of Scrutiny under the election timetable announced on 5 June 2017 (*Reporter*, 6468, 2016–17, p. 565), the Council shall be asked, in accordance with Regulation 3 of the regulations for the election of members of the Board of Scrutiny (*Statutes and Ordinances*, p. 112), whether it wishes to make appointments to the Board or to ask the Vice-Chancellor to arrange a further election.

Teaching Excellence Framework

22 June 2017

The Higher Education Funding Council for England (HEFCE) has published the results of Year Two of the Teaching Excellence Framework (TEF). The University of Cambridge received a Gold award, the highest available to participating higher education providers.

Provider awards are based on performances across three established metrics and datasets. These are graduate employment (Destination of Leavers of Higher Education surveys), student retention (UK performance indicators published by the Higher Education Statistics Agency), and student satisfaction (National Students Survey). Providers' own narratives of their educational offer and range of student support are also taken into account.

HEFCE has published the TEF panel's statement of findings for each participating provider and the statement for the University of Cambridge is available at <http://www.hefce.ac.uk/tef/outcomes/#!/provider/10007788>. The University's narrative, which was submitted as part of the assessment process, can be read at <http://www.admin.cam.ac.uk/reporter/2016-17/weekly/6471/Cambridge-TEF-submission-2017.pdf>.

Grants from the Colleges Fund

26 June 2017

The Council has received the following report from the Colleges Fund Committee which under Regulation 4 for the Fund (*Statutes and Ordinances*, p. 1036) it now publishes to the University.

1. The amount available in the Fund for distribution in 2017 is approximately £4,408,000.
2. The Colleges Fund Committee has approved the following grants to be added to the endowment of Colleges to be paid in June 2017:

	£'000
Clare Hall	259
Darwin	181
Fitzwilliam	293
Hughes Hall	735
Lucy Cavendish	735
Robinson	735
St Edmund's	735
Wolfson	735
Total	4,408

3. These grants have been calculated by taking account of the model of a standard College with a basic requirement for endowment. The figures take account of the endowment requirements of the relevant Applicant College as estimated by the Committee's model having reference to numbers of undergraduates, full-time equivalent graduates, Fellows, and College Teaching Officers.

4. The Committee has again placed a cap on the grant made to any one College. It has limited the maximum grant to 150% of the average grant assuming that in any year nine Colleges are eligible. Five Colleges have had grants limited in this way.

5. The Colleges Fund Committee has not approved any exceptional grants in addition to the endowment-based grants listed above.

VACANCIES, APPOINTMENTS, ETC.

Elections, appointments, and grants of title

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

ELECTIONS

Professor Rich R. Kerswell, M.A., *EM*, Ph.D., *Massachusetts Institute of Technology*, Professor in Applied Mathematics, Bristol University, elected G. I. Taylor Professor of Fluid Mechanics with effect from 1 September 2017.

Professor George Malliaras, B.S., *Aristotle University of Thessaloniki*, Ph.D., *Groningen*, Professor, *École des Mines de Saint-Étienne*, elected Prince Philip Professor of Technology with effect from 1 September 2017.

Professor Paul Ramchandani, B.M., *Southampton*, D.Phil., *Oxford*, Professor of Child and Adolescent Mental Health, Imperial College London, elected Lego Professor of Play in Education, Development, and Learning with effect from 1 January 2018.

Professor Giulia Viggiani, C.E., *University of Naples Federico II*, Ph.D., *City University of London*, Professor of Geotechnics, University of Rome Tor Vergata, elected Professor of Infrastructure Geotechnics with effect from 1 July 2017.

APPOINTMENTS

University Lecturers

Chemical Engineering and Biotechnology. Dr Roisin Meabh Owens, B.A., *Dublin*, Ph.D., *Southampton*, appointed from 1 September 2017 until the retiring age and subject to a probationary period of five years.

Education. Dr Eva Barbara Hartmann, M.A., *Frankfurt*, Ph.D., *Kassel, Germany*, appointed from 1 October 2017 until the retiring age and subject to a probationary period of five years.

Economics. Mr Alexander Rodnyansky, B.Sc., M.Sc., *London*, appointed from 1 September 2017 until the retiring age and subject to a probationary period of five years.

Senior Assistant Treasurer

University Offices (Finance Division). Ms Helen Elizabeth Turner, B.A., *CNAA*, *ACA*, appointed from 12 June 2017 until the retiring age and subject to a probationary period of nine months.

GRANTS OF TITLE

Affiliated Lecturers

Asian and Middle Eastern Studies. Dr Julian Hargreaves has been granted the title of Affiliated Lecturer from 1 October 2017 until 30 September 2018.

Biochemistry. Dr Karen Lipkow, *CL*, and Dr John McCafferty have been granted the title of Affiliated Lecturer from 1 October 2017 for a further two years.

Genetics. Dr David Shing-Mun Huen has been granted the title of Affiliated Lecturer from 1 October 2017 until 30 September 2019.

Pathology. Dr Thomas David Kay Brown has been granted the title of Affiliated Lecturer from 1 October 2017 for a further two years.

Physiology. Dr Colin Adrian Roberts, *SID*, has been granted the title of Affiliated Lecturer from 1 October 2017 for a further two years.

Plant Sciences. Dr Michael Harfoot has been granted the title of Affiliated Lecturer from 1 October 2017 until 30 September 2019. Dr Peter David Carey and Professor Johnathan Andrew Napier have been granted the title of Affiliated Lecturer from 1 October 2017 for a further two years.

Psychology. Dr Georgina E. Browne, Dr Vickie Pasterski Estes, Dr Tabitha Rose Freeman, *ED*, Dr Vasanti Harish Jadva, Dr Victoria V. Leong, *LC*, Dr Debra Ann Spencer, *LC*, Dr Emma Jane Louise Weisblatt, *G*, and Dr Emma Woodberry have been granted the title of Affiliated Lecturer from 1 October 2017 for a further two years. Dr Katherine Grace Ellis-Davies has been granted the title of Affiliated Lecturer from 1 November 2017 for a further year. Dr Sharon Morein-Zamir and Dr David Anthony Ruggeri, *CC*, have been granted the title of Affiliated Lecturer from 1 November 2017 for a further two years.

Vacancies in the University

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

Jennifer Ward Oppenheimer Professorship of the Deep History and Archaeology of Africa in the Department of Archaeology and Anthropology; informal enquiries: Professor Cyprian Broodbank, Disney Professor of Archaeology (email: cb122@cam.ac.uk); tenure: from 1 January 2018 or as soon as possible thereafter; closing date: 26 September 2017; further details: <http://www.jobs.cam.ac.uk/job/14107/>; quote reference: JB12528

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.

EVENTS, COURSES, ETC.**Announcement of lectures, seminars, 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 individual Faculty, Department, and institution websites, on the What's On website (<http://www.admin.cam.ac.uk/whatson/>), and on Talks.cam (<http://www.talks.cam.ac.uk/>).

Brief details of upcoming events are given below.

Laboratory of Molecular Biology / Cambridge Association for Women in Science and Engineering

Annual careers event: *What next for your career? Careers in the pharmaceutical industry, consulting, and science policy*; on 30 June 2017, from 12 noon to 2 p.m., in the Max Perutz Lecture Theatre, CB2 0QH; includes talks and a networking lunch; attendance is free but registration required

Information and registration:
<http://www.camawise.org.uk/events>

NOTICES BY THE GENERAL BOARD**Senior Academic Promotions Committee: Appeals 2017**

The procedure for senior academic promotions (paragraph 11.1) provides that applicants have the right to lodge an appeal against the decision of the General Board's Academic Promotions Committee not to promote.

In accordance with the policy that Committee membership for the senior academic promotions exercise be published, the members of the Appeals Committee for the 1 October 2017 exercise agreed by the General Board are as follows:

Professor Richard Hunter (Chair)
Professor Jonathan Crowcroft
Professor Fiona Karet
Professor Sarah Worthington
Professor Val Gibson
Secretary: Ms Stephanie Lott

REGULATIONS FOR EXAMINATIONS**Examination in Environmental Policy for the M.Phil. Degree**

(Statutes and Ordinances, p. 507)

With effect from 1 October 2017

The General Board, on the recommendation of the Degree Committee of the Department of Land Economy, has approved an amendment to the regulations so as to enable the Degree Committee to withdraw, by the end of Michaelmas Term, optional modules published in Easter Term.

By inserting the following sentence at the end of Regulation 1:

The Degree Committee shall have power to withdraw any optional module by notice in the *Reporter* not later than the end of the Michaelmas Term; the Secretary of the Committee shall notify candidates of the withdrawal of any subject for which they have entered.

Examination in Land Economy Research for the M.Phil. Degree

(Statutes and Ordinances, p. 514)

With effect from 1 October 2017

The General Board, on the recommendation of the Degree Committee of the Department of Land Economy, has approved an amendment to the regulations so as to enable the Degree Committee to withdraw, by the end of Michaelmas Term, optional modules published in Easter Term.

By inserting the following sentence at the end of Regulation 1:

The Degree Committee shall have power to withdraw any optional module by notice in the *Reporter* not later than the end of the Michaelmas Term; the Secretary of the Committee shall notify candidates of the withdrawal of any subject for which they have entered.

Examination in Planning, Growth, and Regeneration for the M.Phil. Degree

(Statutes and Ordinances, p. 521)

With effect from 1 October 2017

The General Board, on the recommendation of the Degree Committee of the Department of Land Economy, has approved an amendment to the regulations so as to enable the Degree Committee to withdraw, by the end of Michaelmas Term, optional modules published in Easter Term.

By inserting the following sentence at the end of Regulation 1:

The Degree Committee shall have power to withdraw any optional module by notice in the *Reporter* not later than the end of the Michaelmas Term; the Secretary of the Committee shall notify candidates of the withdrawal of any subject for which they have entered.

Examination in Real Estate Finance for the M.Phil. Degree

(*Statutes and Ordinances*, p. 524)

With effect from 1 October 2017

The General Board, on the recommendation of the Degree Committee of the Department of Land Economy, has approved an amendment to the regulations so as to enable the Degree Committee to withdraw, by the end of Michaelmas Term, optional modules published in Easter Term.

By inserting the following sentence at the end of Regulation 1:

The Degree Committee shall have power to withdraw any optional module by notice in the *Reporter* not later than the end of the Michaelmas Term; the Secretary of the Committee shall notify candidates of the withdrawal of any subject for which they have entered.

Examination in Sociology for the M.Phil. Degree

(*Statutes and Ordinances*, p. 526)

With effect from 1 October 2018

The General Board, on the recommendation of the Degree Committee for the Faculty of Human, Social, and Political Science, has approved amendments to the regulations to make the following changes: to amend the structure of the ‘Modern society and global transformations’ track so as to match in structure the other three tracks and to rename the track as ‘The sociology of marginality and exclusion’; to change the scheme of examination so as to reduce the number of assessed elements to a field review essay and a dissertation; and to introduce two progression hurdles (essays).

By amending Regulation 3 so as to read (retaining all footnotes):

3. The scheme of examination for the one-year course of study in Sociology for the degree of Master of Philosophy shall consist of:

- (a) one 5,000-word field review essay, on a topic chosen from among those approved by the Degree Committee for the pathway chosen in accordance with Regulation 1;
- (b) a thesis, of not less than 15,000 and not more than 20,000 words, on a topic chosen from among those approved by the Degree Committee for the pathway chosen in accordance with Regulation 1.

The topics approved under sub-paragraphs (a) and (b) by the Degree Committee (or by such other body to which the Degree Committee has delegated this task) shall be published not later than the Easter Term in the academical year preceding the examination.

By inserting new Regulation 5 as follows:

5. In order to proceed to the examination, candidates must submit and achieve a pass in two 3,000-word essays on research strategies, one submitted in the fifth week of Michaelmas Term and one submitted in the second week of Lent Term, on topics prescribed by the candidates’ supervisors.

In the Schedule of pathways, by changing the name of the ‘Modern society and global transformations’ pathway to ‘The sociology of marginality and exclusion’.

NOTICES BY FACULTY BOARDS, ETC.

Asian and Middle Eastern Studies Tripos, Parts IB and II, 2017–18

The Faculty Board of Asian and Middle Eastern Studies gives notice of the following options to be offered under Regulation 8 for Part IB and Part II of the Asian and Middle Eastern Studies Tripos in 2017–18. The Faculty reserves the right to withdraw any course that is undersubscribed.

Unless otherwise specified, all papers consist of a three-hour examination.

PART IB

Middle Eastern Studies

MES.21. Elementary Hindi language

This paper will consist of two parts: a written paper (70 marks) and an oral examination (30 marks). The written paper will consist of two sections: Section A will contain a text comprehension exercise in Hindi (20 marks) and a ‘fill in the blanks’ exercise to test students’ grammar (20 marks). Section B will contain a translation exercise from Hindi to English (15 marks), and a translation exercise from English to Hindi (15 marks).

The oral examination will consist of three sections. All timings are approximate and the oral examinations are recorded:

- (a) listening and comprehension test (20 marks);
- (b) role play (15 marks);
- (c) discussion on a given topic (15 marks).

Ten minutes in total will be given for Sections (b) and (c).

PART II

Chinese

C.16. Early and imperial China

This paper will consist of a passage in literary and another one in modern Chinese for translation and comment, and six essay questions, of which two must be attempted. Candidates will be allowed to use copies of Chinese-Chinese dictionaries provided.

C.17. Modern Chinese literature

This paper will consist of two passages in Chinese for translation and comment, and six essay questions, of which two must be attempted. Candidates will be allowed to use copies of Chinese-Chinese dictionaries provided.

C.18. China in a Global WWII

This paper consists of ten questions of which candidates will be required to answer three.

C.20. Contemporary Chinese society

This paper is divided into four parts, all of which must be attempted. Part one and part two (each carrying 15 marks) each consists of a Chinese-language passage. Candidates will be asked to summarize the passage briefly and answer a commentary question, both in English. Part three and part four (each carrying 35 marks) each consist of five essay questions, of which one question must be answered. Candidates will be allowed to use copies of Chinese-Chinese dictionaries provided.

Japanese

EAS.2. The East Asian region

This paper will contain ten essay questions of which candidates will be required to attempt three.

J.14. Premodern texts

This paper consists of two sections. Candidates will be required to translate two unseen passages in Section A and one unseen text in Section B from Japanese to English, answering questions about the text as indicated. Copies of the dictionaries Shinjigen and Kojien will be available during the examination.

J.15. Modern Japanese cultural history

The coursework that constitutes this paper's assessment will consist of one research essay, of between 6,000 and 7,500 words, including footnotes and excluding bibliography. Each student will develop the topic of the essay in consultation with the instructor. A one-page topic and paper outline plus a bibliography will be due during the first class session of Lent Term. Two hard copies and one electronic copy (pdf) of the research essay shall be submitted to the Programmes Administrator in the Faculty Office so as to arrive not later than the division of Full Easter Term.

J.19. Contemporary Japanese society

The coursework that constitutes this paper's assessment consists of one research essay, of between 6,000 and 7,500 words, including footnotes and excluding bibliography. Each student will develop the topic of the essay in consultation with the instructor. A one-page topic and paper outline plus a bibliography will be due during the first class session of Lent Term. Two copies of the research essay shall be submitted to the Programmes Administrator in the Faculty Office so as to arrive not later than the division of Full Easter Term.

Middle Eastern Studies

MES.37. History of the pre-modern Middle East: building empires: Mughals and Safavids on the brink of modernity

This paper will consist of eight essay questions, of which candidates will be required to answer three. All questions will carry equal marks.

MES.38. History of the modern Middle East: religion, politics, and modernity in the Islamic world

This paper will consist of eight essay questions, of which candidates will be required to answer three. All questions will carry equal marks.

MES.39. Special subject in the pre-modern Middle East: Islamic art and architecture – patrons and collectors

This paper will consist of fifteen questions, in two sections. Section A will contain twelve essay questions; Section B will contain three questions based on images for analysis and discussion. Candidates will be required to answer three questions, at least one from each section. All questions will carry equal marks.

MES.40. Special subject in the contemporary Middle East: Israel: invention of a culture

This paper is assessed by a research essay of between 6,000 and 7,500 words, including footnotes and excluding bibliography. Each student will develop the topic of the essay in consultation with the instructor. A one-page topic and paper outline will be due during the first class session of Lent Term. Two hard copies and one electronic copy (pdf) of the project shall be submitted to the Programmes Administrator in the Faculty Office so as to arrive not later than the fourth Friday of Full Easter Term.

MES.41. Comparative Semitic linguistics

The paper will consist of eight essay questions, of which candidates will be expected to answer three. All questions carry equal marks.

MES.42. Elementary Sanskrit

The paper will consist of four questions. Questions 1 to 3 will consist of a seen passage for translation into English (20 marks each) and grammar questions (5 marks each) on some of the forms found in the selected passage. Question 4 will consist of an unseen translation from Sanskrit into English for which a glossary will be provided (25 marks). All questions must be answered.

MES.43. Intermediate Hindi language

This paper will consist of two parts: a written paper (70 marks) and an oral exam (30 marks). The written paper will consist of two sections: Section A will contain two passages in Hindi to be translated in to English (35 marks). Section B will contain two passages in English to be translated in to Hindi (35 marks).

The oral examination will consist of three sections. All timings are approximate and the oral examinations are recorded.

- (a) listening and comprehension test (10 marks);
 - (b) role play (10 marks);
 - (c) discussion on a given topic (10 marks).
- Ten minutes in total will be given for Sections (b) and (c).

X.9. *Judaism II* (Paper C.8 of the Theological and Religious Studies Tripos)

X.10. *Islam II* (Paper C.9 of the Theological and Religious Studies Tripos)

X.11. *Judaism and Western philosophy* (Paper D2(C) of the Theological and Religious Studies Tripos)

X.15. *The politics of the Middle East* (Paper POL.12 of the Human, Social, and Political Sciences Tripos)

Natural Sciences Tripos, Part II (History and Philosophy of Science), 2017–18

Further to its notice of 14 June 2017 (see *Reporter*, 6469, 2016–17, p. 598), the Board of History and Philosophy of Science gives notice that, following a subsequent amendment, the full list of prescribed sources for the essay component of the Part II course in History and Philosophy of Science in 2017–18 is now as follows:

1. Franz Boas, *The Mind of Primitive Man* (New York: Macmillan, 1911; 2nd ed. 1938)
2. The Stanford School:
 - John Dupré, *The Disorder of Things: Metaphysical Foundations of the Disunity of Science* (Cambridge, MA & London: Harvard University Press, 1993), chapter 10, ‘The Disunity of Science’, pp. 221–243
 - Ian Hacking, ‘Do we see through a microscope?’, *Pacific Philosophical Quarterly* 62 (1981): 305–322
 - Nancy Cartwright, ‘Fundamentalism versus the patchwork of laws’, chapter 1 of *The Dappled World: A Study in Boundaries of Science* (Cambridge: Cambridge University Press, 1999)
3. Hans Reichenbach, *The Direction of Time* (Berkeley: University of California Press, 1971)
4. Jan van der Straet (Stradanus), *Nova Reperta* (New Inventions), a series of 20 engravings, c. 1590
5. Medical Reports of the Chinese Imperial Maritime Customs Service <https://www.lib.noaa.gov/collections/foreign_climate_data_pages/foreign_climate_data_china.html#o39974593>
6. Claus Pias, *Cybernetics: The Macy Conferences 1946–1953 – The Complete Transactions* (Zurich: Diaphanes, 2016)

Each source will have four hours of seminars, to be held in the first half of Michaelmas Term 2017. Candidates are expected to attend the seminars for four of the sources. They will then be required to write essays on two sources. The essays must be submitted by the second Monday of Full Lent Term 2018. Each essay should be not more than 3,000 words in length (including footnotes, but excluding bibliography).

REPORTS**First-stage Report of the Council on the alteration and refurbishment of two buildings on the Old Addenbrooke's site**

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

1. In this Report the Council is seeking approval in principle for the refurbishment and alteration of two buildings on the Old Addenbrooke's site as set out below.

2. The MRC Toxicology Unit is expected to transfer to the University in March 2018. The Unit is currently based in Leicester, in accommodation leased from the University of Leicester. Space is to be provided for the Unit in Cambridge, principally in a refurbished laboratory facility on Tennis Court Road (building E025 in the plan below). Work will also be undertaken to improve links and create shared facilities with the Department of Pharmacology; some refurbishment within the Pharmacology Building (building E030 in the plan) will be required to accommodate activity displaced by the core works. The building works proposed in this Report will support the development of the Cambridge Academy of Therapeutic Sciences, an initiative that promotes the development of therapeutics and the integration of industry into academic activities.

3. Building E025 has for several years hosted the Wellcome Trust / Medical Research Council Cambridge Stem Cell Institute, which will move to a new purpose-built facility on the Cambridge Biomedical Campus in 2018. The building has also accommodated a number of research groups from the Department of Chemical Engineering and Biotechnology, which have recently moved to their new building on the West Cambridge site, and the Cambridge Systems Biology Centre. The Systems Biology Centre is made up of three groups, two of which will move to space in the Department of Genetics; a third will remain in the current building.

4. The buildings are arranged around an east-facing hard-landscaped pedestrian and cycle courtyard. Pedestrian access to both buildings is from Tennis Court Road. A new shared reception for the buildings will be created, opening onto the outdoor plaza and feeding into a central core that will house shared seminar/meeting rooms, administration areas, and shared café and social interaction space, improving links between the two buildings and providing a point of focus for interactions. A Cryo-Electron Microscope Imaging Suite housed in refurbished space on the ground floor of the Pharmacology Building will share technical support, knowledge, and resources with two further machines in the nearby Sanger Building. The project will refurbish 3870m² (Net Assignable Area) of space.

5. A Concept Case for the project was approved by the Planning and Resources Committee on 17 May 2017. A Full Case will be prepared and a Second-stage Report will be published in due course to seek approval for implementation of the project. The budget is £20m, with contributions of £14m from the University's Capital Fund and £6m from the MRC. The transfer of the MRC Toxicology Unit is being managed within a programme of work, with this building project comprising one element. The date of legal transfer to the University is proposed to be 1 March 2018. Physical relocation of the Unit to Cambridge will follow completion of the building project, which is scheduled for early 2020. Should the transfer not take place as anticipated, the investment would nonetheless provide a benefit to the University, delivering newly refurbished high-quality research space for which a number of uses could be anticipated.

6. A site plan is shown below.

7. The Council recommends:

I. That approval in principle be given for the works outlined in this Report.

II. That the Director of Estate Strategy be authorized to apply for detailed planning approval in due course.

28 June 2017

L. K. BORYSIEWICZ, *Vice-Chancellor*
 CHAD ALLEN
 ROSS ANDERSON
 RICHARD ANTHONY
 R. CHARLES
 STEPHEN J. COWLEY

NICHOLAS GAY
 NICHOLAS HOLMES
 ALICE HUTCHINGS
 STUART LAING
 MICHAEL PROCTOR

PHILIPPA ROGERSON
 JOHN SHAKESHAFT
 SARA WELLER
 I. H. WHITE
 JOCELYN WYBURD

Site plan: proposed building refurbishment on the Old Addenbrooke's site**First-stage Report of the Council on the construction of a new Shared Facilities Hub building in West Cambridge**

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

1. In this Report the Council is seeking approval in principle for the construction of a new Shared Facilities Hub building on the West Cambridge site ('the SFH Building').

2. The SFH Building will be an attractive, multi-use facility at the heart of the West Cambridge site. It will be located on the East Paddocks site to the west of JJ Thomson Avenue and to the south of the new central gardens and new Cavendish Laboratory. The Department of Veterinary Medicine will continue to operate in its current location and more intensively use the West Paddocks.

3. The SFH Building will extend to three storeys and comprise approximately 4,700m² of gross internal area. The accommodation to be provided will include a new shared library/learning information hub, shared teaching/meeting rooms, new catering outlets and social space (to include a cafeteria and café bar), a retail space, and a pastoral office and contemplation room. The SFH Building will capitalize on the opportunities presented by its location adjacent to the new central gardens to create a building with internal and external interest.

4. A key objective is to create modern, flexible facilities which meet current standards and which are adaptable to meet different needs and requirements in the future. The target for the SFH Building is to achieve the BREEAM Excellent standard.

5. The capital cost of the proposed development is estimated to be £40m. This includes allowances for free-standing furniture and equipment, and IT and AV installations. The majority of funding is expected to come from the Capital Fund. A smaller proportion of funding is expected to come from philanthropic sources; £5m is targeted at this stage.

6. In addition to the kitchens required to service the catering outlets in the SFH Building itself, the brief for the SFH Building includes the provision of an alternative location for the University's Central Production Kitchen (CPK), which is currently located in the University Centre at Granta Place. As well as supporting the requirements of the catering operations in the University Centre, the CPK produces food products for sale in catering outlets and event catering across the University estate. The option to re-locate the production kitchen capability to the SFH Building is retained by providing shell space within the footprint of the SFH Building with a view to fitting this out in the future if or when the existing CPK in the University Centre is closed.

7. A Concept Case for the project was approved by the Planning and Resources Committee on 21 June 2017. Further details relating to the design, maintenance, capital, and recurrent costs of the project, and sources of funding will be brought to future meetings of the Buildings Committee and the Planning and Resources Committee. A Full Case will be prepared and a Second-stage Report will be published in due course to seek approval for implementation of the project.

8. A Full planning application will be prepared for the scheme which is consistent with, but separate from, the Outline planning application for West Cambridge (*Reporter*, 6387, 2014–15, p. 544) which has yet to be determined by the Local Planning Authority (LPA). The strategy to submit a Full planning application for the SFH Building rather than wait to submit a Reserved Matters application under the Outline consent has been agreed with the LPA and is intended to provide greater certainty over the timetable for the project.

9. There will be extensive cycle parking located close to the entrance and arrival points of the new building. Parking for servicing and maintenance vehicles will be provided within the curtilage of the SFH Building site and disabled parking will be provided close to the entrance on JJ Thomson Avenue. Site-wide car parking will be developed in accordance with the West Cambridge Site Masterplan. Contractor parking during the construction of the SFH Building will be controlled through a construction phase management plan to be agreed during the contractor procurement process. The management plan will control construction logistics to minimize impact on existing activities on the West Cambridge site.

10. The intention is to construct the SFH Building at the same time as the adjacent Cavendish III project (*Reporter*, 6455, 2016–17, p. 362). This will enable construction activity on these neighbouring sites to be co-ordinated and will deliver the catering facilities in the SFH Building in time for the opening of Cavendish III. It will also reduce future construction activity adjacent to the most vibration-sensitive areas of the Cavendish III building.

11. A plan showing the location of the proposed building is shown below. Drawings of the proposed development are displayed for the information of the University in the Schools Arcade and are reproduced online at http://www.admin.cam.ac.uk/cam-only/offices/planning/building/plans_and_drawings/.

12. The Council recommends:

- I. That approval in principle be given for the construction of a new Shared Facilities Hub building in West Cambridge.
- II. That the Director of Estate Strategy be authorized to apply for detailed planning approval in due course.

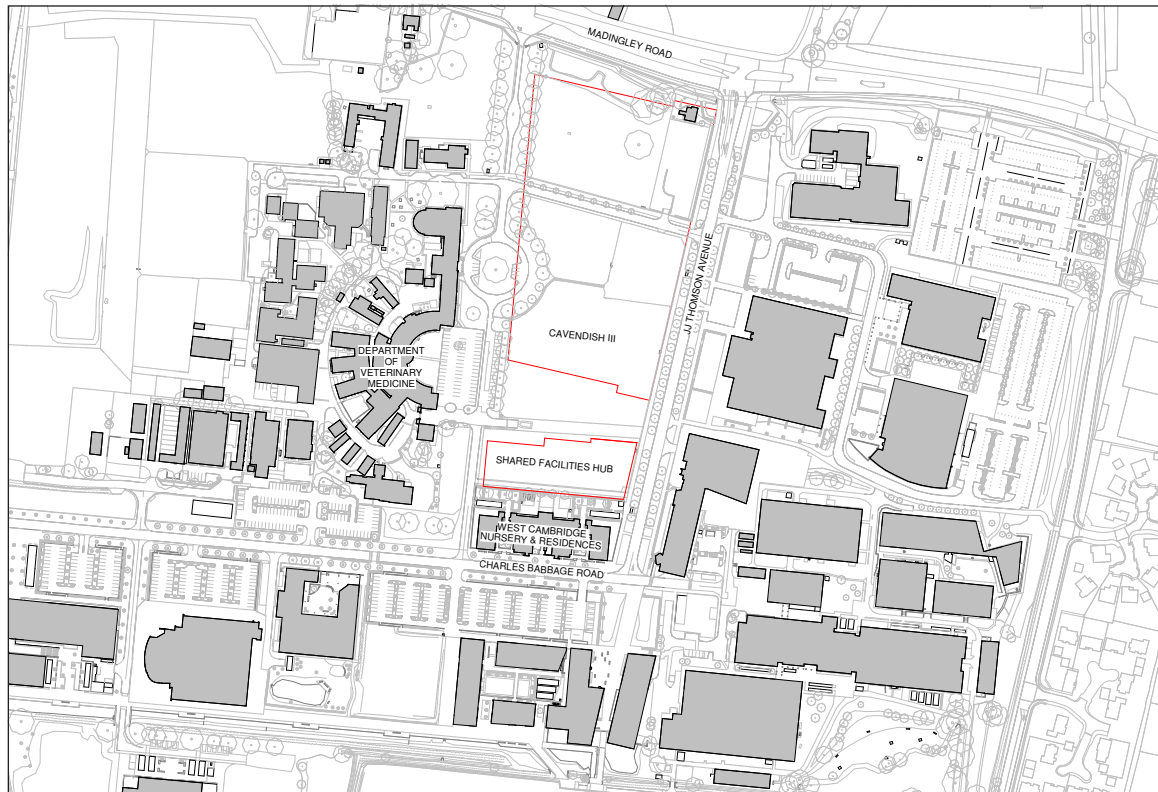
28 June 2017

L. K. BORYSIEWICZ, *Vice-Chancellor*
 CHAD ALLEN
 RICHARD ANTHONY
 R. CHARLES
 STEPHEN J. COWLEY

NICHOLAS GAY
 NICHOLAS HOLMES
 ALICE HUTCHINGS
 STUART LAING
 MICHAEL PROCTOR

PHILIPPA ROGERSON
 JOHN SHAKESHAF
 SARA WELLER
 I. H. WHITE
 JOCELYN WYBURD

Site plan: proposed new Shared Facilities Hub building in West Cambridge



Report of the Council on a new geological collections building for the Department of Earth Sciences

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

1. In this Report the Council is seeking approval for a new geological collections building for the Department of Earth Sciences, to be located on the University's Maddingley Rise site.

2. The Department of Earth Sciences' geological conservation laboratory and climate-controlled collections store, the A. G. Brighton Building at Maddingley Rise, is full beyond capacity. The Department makes use of stores in the Atlas Building at West Cambridge and a subsidiary store on the North West Cambridge site. The buildings at West and North West Cambridge are in a poor state of repair and require frequent reactive maintenance. Continued use of these buildings risks compromising the condition of the collections, which are an important and widely used resource for palaeontology, petrology, and mineralogy research.

3. The scheme involves the demolition of an existing timber built structure known as the Non-Magnetic Hut. This will provide an open space to the south of the A. G. Brighton Building to erect the proposed single-storey structure. The A. G. Brighton Building already hosts the Department's conservation and cataloguing staff; creating the new storage

accommodation adjacent to the existing facilities will provide considerable benefits with regard to movement of staff and samples. Care will be taken so that existing stored materials are not affected by vibration and existing storage facilities remain functioning during the building works.

4. The new building shown in the accompanying plan would be constructed in a single phase and would provide a total additional gross internal area of 720m². The estimated cost of the project is within the range £2.1m–£2.3m, with funding from the Department of Earth Sciences, the School of the Physical Sciences, and the Minor Works Fund. It is hoped to submit a planning application during September 2017 so that work can begin no later than February 2018, subject to authorization of the scheme by the Resource Management Committee.

5. Drawings of the proposed scheme are displayed for the information of the University in the Schools Arcade and are available online at <http://www.prao.admin.cam.ac.uk/capital-planning/plans-and-drawings>. A site plan is shown below.

6. The Council recommends:

- I. That approval is given for the demolition of the Non-Magnetic Hut and construction of a new geological collections building as described in this Report.
- II. That the Director of Estate Strategy be authorized to apply for detailed planning approval in due course.

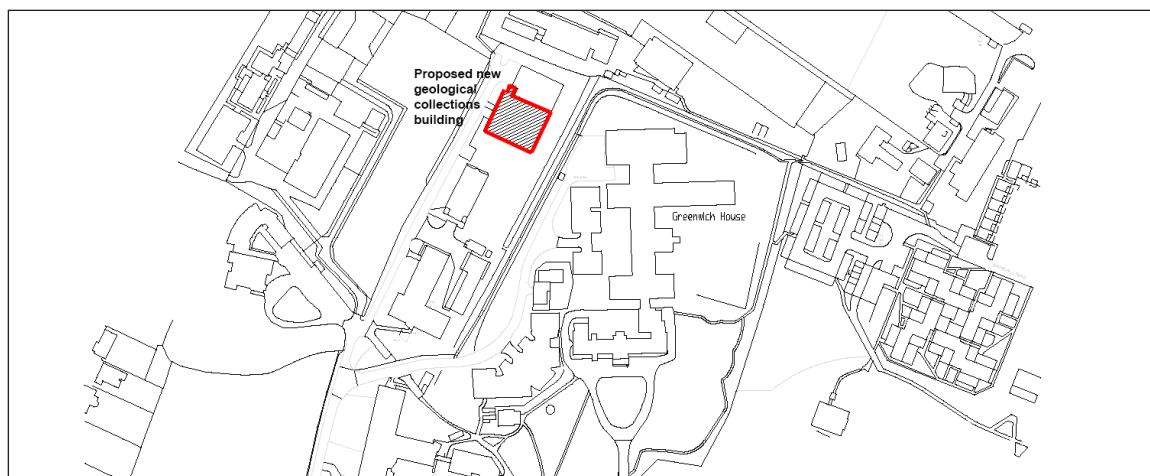
28 June 2017

L. K. BORYSIEWICZ, *Vice-Chancellor*
 CHAD ALLEN
 ROSS ANDERSON
 RICHARD ANTHONY
 R. CHARLES
 STEPHEN J. COWLEY

NICHOLAS GAY
 NICHOLAS HOLMES
 ALICE HUTCHINGS
 STUART LAING
 MICHAEL PROCTOR

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 SARA WELLER
 I. H. WHITE
 JOCELYN WYBURD

Site plan: proposed new geological collections building for the Department of Earth Sciences



ACTA

Approval of Graces submitted to the Regent House on 14 June 2017

The Graces submitted to the Regent House on 14 June 2017 (*Reporter*, 6469, 2016–17, p. 656) were approved at 4 p.m. on Friday, 23 June 2017.

Congregation of the Regent House on 21 June 2017: Honorary Degrees

A Congregation of the Regent House was held this day at 2.45 p.m. The Chancellor was present. Before the Congregation processions formed and then entered the Senate-House by the East Door. The train of the Chancellor's robe was carried by David Horvath-Franco of Corpus Christi College.

Music was performed at the Congregation by the Cambridge University Trumpet Ensemble, by Ms Stephanie Childress of St John's College, and by members of the choirs of Clare College and Gonville and Caius College. The programme of music was arranged by the University Organist, Andrew Nethsingha, Fellow of St John's College, and the choirs were conducted by Dr Geoffrey Webber, Fellow of Gonville and Caius College, and Mr Nethsingha.

The following titular degrees were conferred:

Doctor of Law (honoris causa)

MALCOLM GRANT, Kt, C.B.E., M.A., F.AC.S.S.,

Honorary Fellow of Clare College, formerly Pro-Vice-Chancellor and Professor of Land Economy, sometime President and Provost of University College London, Chancellor of the University of York, Chair of NHS England, lawyer, and university leader

Doctor of Law (honoris causa)

ADAIR, Baron TURNER OF ECCHINSWELL, B.A., HON. F.R.S., HON. F.R.S.E.,

Honorary Fellow of Gonville and Caius College, sometime Rede Lecturer, former Chair of the Financial Services Authority, past Director of the Confederation of British Industry, and formerly Chair of the Committee on Climate Change, economist, and businessman

Doctor of Science (honoris causa)

JEAN-MARIE LEHN, FOR.MEM.R.S., HON. F.R.S.C.,

Formerly Alexander Todd Visiting Professor in Chemistry, Professor at the Institute for Advanced Study, and Emeritus Professor, University of Strasbourg, Honorary Professor of Chemistry, Collège de France, Paris, Nobel Laureate, chemist

Doctor of Science (honoris causa)

ERIC MASKIN, M.A., F.B.A.,

Honorary Fellow of St John's College and of Jesus College, formerly visiting student of Darwin College and Overseas Fellow of Churchill College, Adams University Professor, and formerly Louis Berkman Professor of Economics, Harvard University, Director of the Advanced School in Economics at the Israel Institute for Advanced Studies in the Hebrew University of Jerusalem, Nobel Laureate, economist

Doctor of Science (honoris causa)

JANET ROSSANT, C.C., PH.D., F.R.S., F.R.S.C.,

Honorary Fellow of Darwin College, President and Scientific Director of the Gairdner Foundation, University Professor in the Department of Molecular Genetics, University of Toronto, and Senior Scientist and Chief of Research Emerita, Hospital for Sick Children, Toronto, developmental biologist

Doctor of Science (honoris causa)

STEPHANIE SHIRLEY, C.H., D.B.E., F.R.ENG., F.B.C.S.,

Honorary Fellow of Murray Edwards College, former President of the British Computer Society, and sometime Master of the Worshipful Company of Information Technologists, information technologist, businesswoman, and philanthropist

Doctor of Science (honoris causa)

SOPHIE WILSON, M.A., F.R.S., F.R.ENG., F.B.C.S.,

Honorary Fellow of Selwyn College, co-designer of the Acorn Microcomputer and ARM Processor, designer of the Firepath Processor, Senior Technical Director and Fellow, Broadcom, computer scientist, and software engineer

Doctor of Letters (honoris causa)

MANUEL CASTELLS, F.B.A.,

Honorary Fellow of St John's College and Director of Research in the Department of Sociology, University Professor and the Wallis Annenberg Chair in Communication Technology and Society, University of Southern California, Los Angeles, Research Professor, the Open University of Catalonia, Barcelona, Professor Emeritus, University of California, Berkeley, Erasmus Medallist, Holberg Prize-winner, Balzan Laureate, sociologist

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

QVOTIENS hoc in Senaculo alicui aliquid noui ferenti homines prudentiores respondere audiimus non malum uero esse propositum, sed intempestiuum uideri? attamen tempus, ut scripsit Franciscus ille noster, mespili est simile, quod priusquam coctumst pendet putidum.¹ si quis igitur uel Procancellarius ipse rerum nouarum cupidus pristinam uestram auctoritatem, Magistri, uult restringere, uel Suadae medullam ipse se facito, uel Cethegum alium sibi satellitem alligato. adest nunc huius modi uir non nobis ignotus qui, etiam si Orphei more feras lyra detinere nequit, tamen huius ordinis animos ui orationis adeo placuit ut Vniuersitatis administrationem renouare posset. postea ad Londiniensis remotus Collegium Vniuersitatis aliquamdiu discordiis obsessum ad tranquilla tandem directum x annos summa prosperitate gubernauit.

sed ne plura de Academiae comptis ebore parietibus dicam, etiam in foro eloquentia eius resonare solet. ex aliis muneribus quibus pro re publica functus est memoria dignis, hoc unum adduco: cum de particulis genetiuis frugum demutandis disceptaretur et negoti gubernatoribus et iis qui talia monstra repudiant in contionem conuenientibus, disputationis praesidem ac iudicem aequum se praebens non uerebatur ne hominibus rei publicae potentissimis displiceret si populo abhorrente cum mora cautionem suaderet. rarissimam enim auem eum esse tradunt, qui modo cum ciuitatis administris consocium se coniungere uelit, modo religione quadam permotus consociis resistere non dubitet. qua quidem indole non obstante apud eos penes quos est res publica gratia ualere pergit: nonne ei primo officii salutaris procuratoribus praefecto imperium nuper continuatum est?

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregium hunc uirum, equitem auratum, excellentissimi ordinis Imperi Britannici commendatorem, Magistrum in Artibus, Academiae Scientiarum Socialium sodalem, Collegi de Clare honoris causa socium adscitum, nostrae Vniuersitatis Procancellari uice olim functum, oeconomicae agrariae apud nos quondam professorem, Collegio Vniuersitatis apud Londiniensis quondam praepositum, Vniuersitatis Eboracensis Cancellarium, eorum qui in Anglia nationis sanitatem procurant praesidem, iurisconsultum et academicorum ducem,

MALCOLM GRANT,

ut honoris causa habeat titulum gradus Doctoris in Iure.

HOW often have we heard in this Senate-House, when someone has proposed some innovation or other, those of a more cautious disposition respond that the idea is not a bad one; but that the time is not yet quite right. But time, as Cornford warned, is like the medlar: it has a trick of going rotten before it is ripe. And so, if someone, even a reforming Vice-Chancellor, should wish to change the procedures of the University, he had better make himself 'the very marrow of Persuasion',² or find for himself an ally with the powers of Cethegus. There is present such a man well known to us, who, while he may not, like Orpheus, be able to charm savage beasts with a lyre, nevertheless won over the Regent House with his arguments and guided the reform of our governance. Later, having taken himself to London, he united University College, for some time mired in dispute, and led it through a decade of the highest prosperity.

But let us not dwell in the ivory towers of Academe. Many are his services to the State which are worthy of recall, and of these let us single out one: that during the public debate about genetically modified crops he brought to the same table the protestors and the representatives of industry, and showed himself the fairest chairman and judge, who was not afraid to risk the displeasure of politicians when, in the face of public scepticism, he advised caution and delay. For he is, as they say, that rara auis who is willing to work with ministers, but who does not hesitate to oppose them when his conscience so moves him. And this is a quality which has put him in good standing with the political class: having been appointed as the first chair of NHS England, has not his term of office recently been extended?

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

MALCOLM GRANT, Kt, C.B.E., M.A., F.AC.S.S.,

Honorary Fellow of Clare College, formerly Pro-Vice-Chancellor and Professor of Land Economy, sometime President and Provost of University College London, Chancellor of the University of York, Chair of NHS England, lawyer and university leader,

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

¹ Plaut. *Trinumm.* 526.

² Marcus Cornelius Cethegus, a Roman Republican administrator famous for his persuasive oratory, was so described by Ennius.

QVOQVO in discrimine uersetur res publica, hospitem hunc nostrum tradunt consulendum. primum industriae quaestuosae ducum consociationi, postea mercedis iniquae triumuiratui praefectus, adeo aequabilem se praebuit ut etiam apud operariorum sodalitates laude floruerit. idem pensionum nouemuiris praepositus multas inter se repugnantis quaestiones ut Alcides serpentis capita excidit et diuersas partes ad unum consensum conduxit quem etiam si non omnibus omnino placuit, nemo tamen totum repudiauit. et meministis, Magistri, cum in America magnas permulti res amisissent et fides concideret, et apud nos pecuniarum ratio eodem motu labefacta uacillare coepisset, meministis eundem haud multis post diebus faenoris moderatorum praesidem creatum argentarios ad temperantiam hortantem praeceptis restrinxisse ne immoderata superbia deducti totam salutem publicam periclitarentur et in eandem calamitatem traherent?

nunc rem publicam admonet sic ut nauta *qui incidat in Scyllam cupiens uitare Charybdin*¹ aes alienum maius quam quod sustineatur conflasse ne id obiciatur quod syngraphis suis emendis pecuniam e nihilo creasse uideatur. talem uirum si quis neglegit monentem, caueto.

si alio loco natus esset haud scio an inter eos adscriptus esset qui τεχνοκρατικοί et ἔναργοι nominentur. a quo nomine ipse non abhorret. sed his temporibus cum scientia a nonnullis contemnatur, cum ii qui usu et sapientia praestant sint ludibrio, hoc dicamus: uir adest animo integro et libero, ingenio argutissimo, iudicio acerrimo, cui pro multis in rem publicam datis meritis gratias nos hodie agimus singularis.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregium hunc uirum admodum honorabilem, Baccalaureum in Artibus, Regiae Societatis apud Londiniensis necnon apud Edinensis honoris causa sodalem adscitum, Collegio Gonuilli et Caii honoris causa socium adscriptum, lectorem olim Redianum, officio ad faenatores moderandos instituto quondam praefectum, Fabrorum Britannorum Confoederationis quondam rectorem, concili ad mutatas tempestates uestigandas commissi quondam praesidem, rerum ut dicuntur oeconomicarum studiosum, negotiatorem,

ADAIR Baronem TURNER de ECCHINSWELL,
ut honoris causa habeat titulum gradus Doctoris in Iure.

OUR next honorand has been described as the answer to every crisis in public policy. When he was Director of the Confederation of British Industry, and later Chair of the Low Pay Commission, such was his reputation for fairness that he garnered admirers even among the leaders of the trade unions. Appointed then to chair the Pensions Commission, he faced a labour equal to that of Hercules sent to slay the Lernaean Hydra; yet he defeated the many-headed monster and built a consensus which, while at times uncomfortable, could be supported by all. And I am sure you recall that barely a week after the mortgage crisis and collapse of credit in America had threatened to topple the banking system on this side of the Atlantic, too, he took up the chair of the Financial Services Authority, bringing upon himself the task of restraining the bankers lest with excessive risks they plunge the whole economy into the same catastrophe. Now, in his recent book *Between Debt and the Devil* he warns that to avoid the charge of printing money by having central banks buy government bonds, the state continues to amass unsustainable debts. Such a warning we ignore at our peril.

He is the closest thing in England, they say, to an *énarque*; nor is ‘technocrat’ a description which he shuns. In the present climate, when there are those who insist that ‘we have had enough of experts’ and knowledge itself is too often derided, let us say this: there stands before us a man of impeccable political neutrality, of intellectual rigour, of the soundest judgement, to whom, for his many services to the State, we now give particular thanks.

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

ADAIR, Baron TURNER OF ECCHINSWELL, B.A., HON. F.R.S., HON. F.R.S.E.,

Honorary Fellow of Gonville and Caius College, sometime Rede Lecturer, former Chair of the Financial Services Authority, past Director of the Confederation of British Industry and formerly Chair of the Committee on Climate Change, economist and businessman,

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

¹ Gualteri de Castellione *Alexandr.* 5.301.

ADSIT mihi, comprecor, Camena, magna chemiae mysteria expedituro, ne uirum patre musico natum indignis numeris canam.

haud secus ac campum cum Mauors ictibu' radit
 quisque suum miles scutum protendit ahenum
 dexteram uti socii seruet, seruetur et ipse
 a socio et coniuncta acies manet inuiolata:
 non aliter binis nonnumquam consociatis
 particulis quae uim portant electrida dictam
 in longas coeunt series primordia rerum
 aut nodos fingunt iam tortos, iamque coronas.
 primum Gallus homo mortalem extollere mentem
 est ausus factis ut naturam exsuperaret.
 flexos in torques connectit prima elementa

qui chelae similes comprehendunt semina quaedam
 atque in se sorbent, celant, penitusque recondunt
 ut flendum muta celatur funus in urna.
 his e contextis finguntur uincula quorum
 quidque suum corpus complectitur indupeditum
 cuius adaptatumst ad formam concipiendam:
 captat enim formaturam, captatque figuram.
 nec mora daedalus est grex ortus materiarum
 quae sese e membris possunt componere paruis
 et iam compositae totam mutare figuram
 mobilis in uitro uitae speciem simulantes.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregium hunc uirum chemiae studiosum, palmis Nobelianis coronatum, Regiae Societati hospitis iure adscriptum, Regiae Societatis Chemiae honoris causa sodalem adscitum, quondam apud nos Alexandri Todd hospitis iure chemiae professorem, Vniuersitatis Argentoratensis professorem emeritum et Instituti Studiorum Superiorum professorem, Collegio Francogallico honoris causa chemiae professorem adscriptum,

JEAN-MARIE LEHN,

ut honoris causa habeat titulum gradus Doctoris in Scientiis.

COME, *O Muse, attend thy servant and expound the mysteries of chemistry in a mode befitting the son of a musical father.*

When Mars with war besets the field
 Each man holds forth his brazen shield
 To guard his mate upon the right—
 And so the line withstands the fight.
 Just so by Nature's fruitful laws
 Do atoms share their seeds of force
 And with electric shells entwined
 Form rings and knots and drawn-out lines
 Held tight by strong covalent ties.
 A Frenchman is the first who tries
 To better Nature's own designs.
 Six O's, two N's he intertwines

And bends into a hollow crown
 To draw a chosen ion down
 As in his claw the crab holds gripp'd
 His prey, or in the silent crypt
 The mournful corpse sequestered lies.
 And from these parts see now arise
 A molecule of shape ordained
 To take hold of another's frame.
 Behold! a whole menagerie
 Of minuscule machinery
 From smaller parts itself contrives,
 Rebuilds, transforms, and seems alive.

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

JEAN-MARIE LEHN, FOR.MEM.R.S., HON. F.R.S.C.,

formerly Alexander Todd Visiting Professor in Chemistry,
 Professor at the Institute for Advanced Study and Emeritus Professor, University of Strasbourg,
 Honorary Professor of Chemistry, Collège de France, Paris, Nobel Laureate, chemist,
that he may receive the title of the degree of Doctor of Science, honoris causa.

PATIENTIA uestra me non abuserum spero, Magistri, rem mirabilem dictu uobis narraturus. nuper in somniis mihi uisus uir sapientissimus ‘fac, quaeso,’ inquit, ‘te quoddam crustulum habere—aut castanearum placentam dicamus aut scriblitam amygdalinam aut quaslibet pistoris arte confectas delicias—duos inter liberos (nomina sint eis Antoniae et Balbo) ita partiendum ut utriusque sua pars quam maxime placeat neque ullam utriusque det querendi facultatem. id quo pacto diuidendum esse censes?’

‘non aliter,’ inquam, ‘quam ut in dimidias partes concidatur.’

cui ille ‘ipsi tibi,’ inquit, ‘crustulum concidendum et partes in liberos distribuendas iudicas?’

‘certe,’ inquam. ‘μή παιδὶ μάχαιραν.’

at ille, ‘quod si aliter tu rem intueris, aliter Antonia, aliter Balbus, nonne fieri potest ut partes tibi aequae uisae aut huic aut illi nescioquo modo iniquae uideantur ut causae sint rixae et obiurgationis?’ cui cum adnuo, ‘nonne melius igitur,’ inquit, ‘si placentae ab altero concisae utramlibet partem eliget altera? cur enim queretur illa si minorem sibi partem elegerit, cur ille si partem maiorem a se ipso concisam illa ceperit?’

cui ego ‘at mehercle’ inquam ‘est ut dicis. alter diuidito, altera eligito.’

tum ille, ‘quid nunc si inter tres diuidenda est placenta? aut si Balbus scriblitae crustam pluris aestimat quam qui intus est cremorem? quid nunc faciendum iudicas?’ cui cum nil haberem quod responderem, Magistri, e somnio expergefactus sum.

adest qui ad huiusmodi quaestiones soluendas se adhibuit. alii enim rerum oeconomicarum studiosi legibus quibusdam et praeceptis in negotio quouis agendo institutis quid et qua re eueniat scitantur. hic uir quibus rationibus instituendis euentus efficiat desideratos machinatur.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregium hunc uirum palmis Nobelianis coronatum, Magistrum in Artibus, Academiae Britannicae sodalem, Collegi S. Iohannis Euangelistae necnon Collegi Iesu honoris causa socium adscitum, Collegio Darwiniano hospitis iure quondam adscriptum, Collegi Churchilliani hospitis iure socium olim adscitum, apud Haruardianos Vniuersitatis professorem Adamsianum et quondam rerum oeconomicarum sub nomine Ludouici Berkman professorem, in Hebraeae Vniuersitatis Hierosolymitanae Studiorum Superiorum Instituto Scholae Rerum Oeconomicarum Superioris rectorem, scientiae oeconomicae studiosum,

ERIC MASKIN,

ut honoris causa habeat titulum gradus Doctoris in Scientiis.

IHOPE I shall not try your patience if I tell an odd story. A wise man recently came to me in a dream and said, ‘Imagine, please, that you had a cake—a chestnut pie, say, or an almond tart, or some other delicacy of the baker’s art—which you had to divide between two children (let us call them Alice and Bob) so that they are each happy with their share and they have no reason for complaint. How should the cake be shared out?’

‘It is obvious,’ said I, ‘that the cake should be cut in half.’

‘And would you cut the cake yourself and give out the pieces?’

‘I would,’ said I. ‘For who would give a child a knife?’

‘But what if you see the thing one way,’ said he, ‘but Alice and Bob here see it differently? Could not the halves which to you seem equal seem either to him or to her to be somehow unequal, and so cause an argument?’ When I agreed, he continued, ‘So would it not be better if Bob cut the cake and Alice chose whichever half she wanted? For how could Alice complain if she herself chose the smaller share? And how could Bob complain if he cut the cake unevenly and Alice chose the larger?’

You are right,’ said I. ‘Bob should cut the cake, and Alice should choose her piece.’

‘But what,’ he went on, ‘if the cake had to be divided into three parts? Or what if Bob preferred the pie crust to the custard within? What should we do then?’ I had no idea what to reply, and I awoke in confusion.

Our honorand has devoted his life to the solution of problems such as this. Other economists study what happens when certain rules have been established in some business or other; he engineers the rules which will produce the desired outcomes.

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

ERIC MASKIN, M.A., F.B.A.,

Honorary Fellow of St John's College and of Jesus College, formerly visiting student of Darwin College and Overseas Fellow of Churchill College, Adams University Professor and formerly Louis Berkman Professor of Economics, Harvard University, Director of the Advanced School in Economics at the Israel Institute for Advanced Studies in the Hebrew University of Jerusalem, Nobel Laureate, economist,

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

HOMERVS Amisodarum quendam memorat ὃς ῥα Χίμαιραν θρέψεν ἀμαιμακέτην πολέσιν κακὸν ἄνθρωποισιν;¹ eandem his uersibus describit Hesiodus:

δεινήν τε μεγάλην τε ποδώκεά τε κρατερήν τε·
τῆς δ' ἦν τρεῖς κεφαλαί· μία μὲν χαροποῖο λέοντος,
ἡ δὲ χιμαίρης, ἡ δ' ὄφιως, κρατεροῖο δράκοντος.
πρόσθε λέων, ὄπιθεν δὲ δράκων, μέσση δὲ χίμαιρα,
δεινὸν ἀποπνεῖουσα πυρὸς μένος αἰθομένοιο.²

adest iam mulier digna et ipsa quae chimaerae si non draconum mater nuncupetur. pusilla quae producit prodigia toto sunt corpore murina. neque flammam possunt anhelare, neque humanae genti sunt exitio sed maximae salutis. particulis enim eorum genitius quolibet modo demutatis, ut haec altera elidatur, altera ab alieno semine erepta in alienum inseratur, incipientis uitae magna mysteria percontatur. quibus rationibus ductae cellulae in germinis cistula se multiplicantes aliae in fetum ipsum se transformare cogantur, aliae in placenta, aliae in sacculum quo fetus crescens protegatur alaturque detexit. praeterea quemadmodum formetur placenta, qua re nonnumquam accidat ut placenta deficiente fetus abortiatur recognouit. eadem cordis pulmonum uenarum conformationem descripsit. accedit quod semper ad usum et artem medicinae prospiciens, morborum geneticorum aliorum et cancer ipsius maiorem potestatem non modo cognoscendi uerum etiam sanandi medicis donauit. neque hoc mihi praetereundum iudico, quod cellulis e placenta excisis uim transfigurandi mirabilem ita restituit ut eorum uitae germinum quae

omnia transformant sese in miracula rerum
osque lacertososque toros albosque medullas³

fetu intacto fontem nouum aperuisse uideatur.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregiam hanc mulierem, excellentissimi ordinis Canadae comitem, Doctorem in Philosophia, Regiae Societatis sodalem, Regiae Societatis Canadensis sodalem, Collegi Darwiniani honoris causa sociam adscitam, Fundationis Gairdner praesidem et scientiae reatricem, biologiae molecularis apud Torontinos professorem, in Liberum Aegrorum Nosocomio Torontino rerum indagatricem seniore et uestigandi caput,

JANET ROSSANT,

ut honoris causa habeat titulum gradus Doctoris in Scientiis.

¹ Hom. *Il.* 16.327–8.

² Hesiod. *Theog.* 320–4.

³ cf. Verg. *Geo.* 4.441 et oratiunculam pro Martin Evans habitam anno mmxi.

HOMER recalls a certain Amisodarus, 'who reared the raging Chimaera, a bane to many men'. Hesiod describes the monster thus:

A creature fearful, great, swift-footed and strong,
 Who had three heads, one of a grim-eyed lion,
 One of a goat, the third of a snake, a mighty dragon.
 In her foreparts she was a lion, behind a dragon, in her middle a goat
 And she breathed forth a fearful blast of blazing fire.

Our next guest too can claim to rear chimaerae. But no monsters, these: they are small, and have the nature entirely of mice. They cannot breathe fire and are no bane to mankind. Indeed, they are a positive boon. She modifies their genetic code, knocking out a gene here, implanting one taken from another embryo there, and so investigates the mysteries of the start of life. She has discovered the mechanisms which guide the fate of the cells in the blastocyst, such that some develop into the fetus itself, some into the placenta, some into the sac which protects and nourishes the fetus as it grows. She has discovered how the placenta is formed, and how it sometimes fails to form, so that the fetus is not brought to term. And she has revealed the development of the heart, the lungs, and the whole circulatory system. Always looking to the medical application of her research, she has given doctors new powers to diagnose and treat cancer and other genetic diseases. But this, perhaps, is the most remarkable of all: she has taken cells from the placenta and restored to them the miraculous, protean power of transformation by which they can grow into any tissue—bone, say, or muscle, or white marrow; and so she has opened up a new source of stem cells, which can be exploited without harm to the embryo.

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

JANET ROSSANT, C.C., PH.D., F.R.S., F.R.S.C.,

Honorary Fellow of Darwin College, President and Scientific Director of the Gairdner Foundation, University Professor in the Department of Molecular Genetics, University of Toronto, and Senior Scientist and Chief of Research Emeritus, Hospital for Sick Children, Toronto, developmental biologist

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

SEXTO nondum completo anno quae nunc adest mulier inter liberos a parentibus dimissos ut terrorem qui Sillis diebus Europae imminebat effugerent, omnibus quae possidebat in paruo uidulo collectis, sorore comitante, e Vindobonensium finibus profuga ad litora nostra aduenit. 'titulum habebamus,' inquit, 'in ceruice infixum; sic pitaciis infiguntur res amissae. equidem dixerim nos quoque simili ratione amissas fuisse.'

postea praestantissimo ingenio uiso, a monachis quibus magistris utebatur ad puerorum scholam missa ut geometricam artem persequeretur, nullo tamen ad academiam incitamento permota—quae enim scientia nisi quae ad animantium vitam pertineret eo tempore muliebri menti apta habebatur?—in tabellariorum elaboratorium ad uictum petendum se contulit. ibi rudibus apparatus ratiocinatoriis electride ductis studebat; ibi talium machinarum potestatem non corporeis in membris sed in mandatis quibus dirigerentur sitam esse cognouit; quod si quando aliis persuadere conabatur, tum cum femina quae tali officio fungebatur rarissima esset auis et a uiris circumsessa, quis monentem mulierem audire uolebat? itaque nomine in masculinum uerso ne a masculis praeteriretur idem negotium suo ipsius consilio exsecuta est. mulieres per occasionem conduxit ab alio labore aut infantium aut ceterorum indigentium cura exclusas, magnum tandem lucrum comparauit. quam fortunam fere totam aliis largita est. nec tempus nec spiritus mi sufficit quo nomina eorum quibus succurrit memorem: hoc tamen non omitto quod tantum cum pecuniae tum oti et in iis qui εις αυτόνδς άπερχεσθαι uidentur subleuandis et in huius mali causis inueniendis collocauit.

at cur hoc faciat si requiris, 'non aliter,' inquit, 'quam ut qui mi subuenerint non frustra me seruasse uideantur: itaque aliis a me subueniendum.'

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregiam atque humanissimam hanc mulierem inter comites honoratissimos adscriptam, excellentissimi ordinis Imperi Britannici dominam commendatricem, Fabrorum Regiae Academiae sodalem, Societatis Britannicae Computatoriae sodalem et quondam praesidem, Collegi Murray Edwards honoris causa sociam adscitam, Technologiae Communicatiuae Venerabili Societati quondam praefectam, negoti gubernatricem,

STEVE SHIRLEY,

ut honoris causa habeat titulum gradus Doctoris in Scientiis.

OUR next honorand arrived on these shores on a Kindertransport at the age of five, an exile from Vienna fleeing the Nazi terror, accompanied by her sister, with everything she owned in a small suitcase. 'We had numbered tickets hanging around our necks,' she says, 'as if we were lost property. In a sense, we were.'

The nuns who taught her recognised in her a special talent and sent her to a local boys' school to study mathematics. But because at that time the only science suitable for women was thought to be biology, she had no desire to go on to university, and so went to work with primitive electronic computers at the Post Office Research Station at Dollis Hill. The power of such machines, she came to realise, lay not in their physical parts but in the programs which directed them; but if she tried to persuade others—this was a rare profession for a woman, remember, and she was surrounded by men—well, who would listen? And so she went into business for herself, and shortened her name to the masculine form so that she would not be dismissed out of hand by men. She offered work on a freelance basis to women who were prevented from taking full-time employment by the need to care for children or other dependants, and soon she made her fortune. All of that fortune she has given away. There is not time to recount the extent of her philanthropy, nor if there were would breath suffice; but I cannot pass over the continued support she has given, both financial and out of her own time, to help those who struggle with autism and to discover its causes.

'I do it because of my personal history,' she says. 'I need to justify the fact that my life was saved. Now it is my turn to help others.'

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

STEPHANIE SHIRLEY, C.H., D.B.E., F.R.ENG., F.B.C.S.,

Honorary Fellow of Murray Edwards College, former President of the British Computer Society and sometime Master of the Worshipful Company of Information Technologists, information technologist, businesswoman, and philanthropist,

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

MIPVERO pater olim domum retulit capsellam quandam rauam rubrarum clauicularum ordine insignem Met noctua Mineruali ornatam, quae multa cum magnetophonii ululatione iam figuras rudis et viii coloribus distinctas in cistellam uitream proiebat, iam sonorum seriem tenuem et acutam sed eo tempore admirandam reddebat, iam carmina tristia facere uel etiam sermonem instituere uidebatur. machinam illam scilicet cognostis, Magistri, cui sodalitas nostra praeconia nomen suum idcirco imposuit ut re computatoria familiaris uteremur. cuius inter auctores erat haec mulier. eadem penetralia eius et intima itinera flexuosissima metata est. eadem libellis isagogicis pellucide scriptis quo modo dirigeretur nos docuit. nec me confiteor prius sermonem huic senaculo aptiorem aggressum esse quam linguam illam ab eadem excogitam βασικήν dictam cui tanta erat simplicitas ut ne tirunculi quidem abhorrerent, tanta tamen subtilitas ut uiri peritissimi eius uerbis colisque contextis uelut magica quadam arte quidquid uolebant construere possent.

postea ad nouum Apparatum Ratiocinatum Mirabilem aedificandum se contulit qui Redacta Iussorum Superuaceanorum Copia celeritate inaudita instructus ui electrica tam pusilla utebatur ut cum primum temptabatur nullo electricos fonte per errorem coniuncto quanta opus esset ui e propinquis membris surrepta se sustineret. alii maioribus opibus sed parum INTELligentia praediti nequiquam eundem scopum appetuerant: haec mulier omnia mente sua tam prospere enodauit ut hodie haec assulae decies numero homines quotquot sint superare dicantur.

salutemus igitur mulierem daedalissimam quam dicere audeo paludem nostram uentosam glande quam cum collegis conseruerit in silicem mutasse.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregiam hanc mulierem, Magistram in Artibus, Regiae Societatis sodalem, Fabrorum Regiae Academiae sodalem, Societatis Britannicae Computatoriae sodalem, Collegi Selwyniani honoris causa sociam adscitam, machinarum computatricum creatricem, assularum auctricem, in Societate Broadcom technologiae praepositam et sodalem adscitam, scientiae computatoriae studiosissimam, instrumentorum electronicorum reatricem,

SOPHIE WILSON,

ut honoris causa habeat titulum gradus Doctoris in Scientiis.

WHEN I was a child my father one day brought home a wonderful beige box with a row of bright red buttons and bearing the sign of Athene's owl. After much screeching from a tape-recorder it projected blocky figures in eight colours on its glass screen, or played musical sounds—tinny, it is true, but remarkable in those days—and even seemed able to compose sad poems or hold a conversation. You doubtless recognise the Acorn Microcomputer, which the BBC adopted for its computer literacy project. This woman was one of its creators. She laid out the labyrinthine pathways of its circuits. She wrote the user manuals with wonderful clarity. And your Orator must confess that before he had approached the idiom more suited to this Senate-House, he had learned the language that she devised: BASIC in name, and simple enough to encourage beginners, but so powerful and subtle that those skilled in its use could weave together its commands to work magic.

Afterwards she designed the Acorn RISC Machine. With its set of instructions pared down to the minimum, it worked at incredible speed; but it required so little power that when, in an early test, the connection to the electricity supply had been forgotten, it drew all the current it needed from the surrounding components. Others with greater resources had tried with supercomputers to devise similar designs, but to no avail. Our honorand worked it all out in her head. And so successfully, it must be said, that there are now ten of the chips that she designed for every human being on earth.

Let us greet, therefore, a woman who helped to plant an acorn and pave a fen with silicon.

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

SOPHIE WILSON, M.A., F.R.S., F.R.ENG., F.B.C.S.,

Honorary Fellow of Selwyn College, co-designer of the Acorn Microcomputer and ARM Processor, designer of the Firepath Processor, Senior Technical Director and Fellow, Broadcom, computer scientist and software engineer,

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

QVAM bene Saturno uiuebant rege, priusquam
tellus in longas est patefacta uias.

his uersiculis queritur Tibullus amplificata communicandi facultate pristinum illum statum uitae quo maiores nostri beati et omni cura liberi fruere amissum esse. sed quid dicat poeta in nostram aetatem transiectus si hodiernis technologiae miraculis obuiam uenerit? quid si machinationes illas conspexerit quae inter se contextae et totum fere mundum rete quodam continentes non modo cogitare uerum etiam sponte sua ita agere uidentur ut incertum sit utrum nos auctores eas regamus an ab eis regamur? quid si sermones imagines cuiusuis rei rumores per aethera statim missiculi, et famam rerumque cognitionem ab alio ad alium transmissam nulla mora etiam remotissimas in oras prius peruenire quam a censore uel seuerissimo supprimantur? si sibi obstupescenti itineris ducem poposcerit hunc uirum commendem, qui spatia incorporea indagauit per quae rerum scientia fluit; qui inusitata temporis momenta cognouit non ordine sequentia sed ante oculos una turba disposita ut cuique perpenso pretium suum assignetur; qui in plus xx libris societatis contextum percontatus ausus est nouam Scientiae Aetatem tribus explicare chartis doctis, Iuppiter, et laboriosis.¹

philosophiam contemplatiuam tanti modo aestimandam esse dicit quanto quod obseruet enodare possit. tam igitur ratione quam rerum ipsarum obseruatione perductus, ut qui caelum assidue suscipiat caelestiaque contempletur, omnis res humanas sibi facit speculam et inuestigationis officinam. nec futura praedicere solet—nil enim nos sine errore uaticinari posse, praeter quod erraturi sint uaticinatores; satis esse si quae scripserit aliquantulum ad usum pertinere uideantur.

dignissime domine, Domine Cancellarie, et tota academia, praesento uobis egregium hunc uirum, Academiae Britannicae sodalem, Collegi S. Iohannis Euangelistae honoris causa socium adscitum, doctrinae socialis apud nos uestigandae rectorem, Californiae Meridiana apud Angelopolitanos Vniuersitatis technologiae communicatiuae necnon societatis nomine Wallis Annenburg professorem, Liberae Vniuersitatis Cataloniensis apud Barcinonensis professorem, Vniuersitatis Berkeleianae professorem emeritum, laureis Erasmianis Holbergianis Balzarianis coronatum, humanae communitatis in societatem confirmandae studiosum,

MANUEL CASTELLS,

ut honoris causa habeat titulum gradus Doctoris in Litteris.

¹ cf. Catull. 1.6–7.

HOW blest Man liv'd in Saturn's golden Days,
 HE'er distant Climes were join'd by lengthened Ways.²

The poet Tibullus complains that as the power of communication has increased, we have lost the simplicity of life which our ancestors enjoyed free from all care. What would he make of the technological marvels of today's world, I wonder? What would he say if he saw our computers, holding the whole world in their web, and seeming to think and act for themselves so that it is no longer clear whether we are their masters or their slaves? What if he saw conversations and images and rumours of who knows what transmitted instantly across the ether, so that news and knowledge can be passed from person to person without delay, before even the strictest censor might suppress them? If in his confusion he sought a guide, he could do no better than our final honorand. He has probed the insubstantial spaces through which information flows. He has witnessed timeless time, where moments do not follow one after the other but are set at once before our eyes so that each may be valued and assigned a price. In more than twenty books, and above all in his great trilogy The Information Age, he has laid bare the new fabric of the networked society.

Theory and research, he says, are only as good as their ability to make sense of what we observe. And so, guided as much by theory as by empirical observation, like the astronomer who looks up at the night sky and ponders the heavens, all the world is made his observatory and his laboratory. And he steers clear of 'the dubious ventures of futurology' (one thing alone can we predict with confidence: that those who predict the future are invariably wrong); it is enough, he says, if what he has written relates to our experience.

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

MANUEL CASTELLS, F.B.A.,

Honorary Fellow of St John's College and Director of Research in the Department of Sociology,
 University Professor and the Wallis Annenberg Chair in Communication Technology and Society,
 University of Southern California, Los Angeles, Research Professor, the Open University of Catalonia,
 Barcelona, Professor Emeritus, University of California, Berkeley,
 Erasmus Medallist, Holberg Prize-winner, Balzan Laureate, sociologist,
that he may receive the title of the degree of Doctor of Letters, honoris causa.

² Tibullus 1.3.35–6, trans. James Grainger.

E. M. C. RAMPTON, *Acting Registry*

END OF THE OFFICIAL PART OF THE 'REPORTER'

COLLEGE NOTICES**Elections***Corpus Christi College*

Elected to a Research Fellowship in Class B (in Anglo-Saxon) for three years with effect from 1 October 2017:

Ms Harriet Soper

Vacancies

Corpus Christi College: Chaplain / Dean of Chapel; salary: based on current Ely Diocesan incumbents' rate; tenure: three years, renewable; closing date: 28 July 2017; further details: <https://www.corpus.cam.ac.uk/further-information/non-academic-staff-vacancies>

Girton College: College Lecturer in Law; tenure: three years, starting in the academical year 2017–18; closing date: 4 July 2017; further details: <https://www.girton.cam.ac.uk/vacancies>

Events**Jesus College***Sculpture in the Close 2017*

The 2017 Sculpture in the Close exhibition will run until Sunday, 17 September 2017. The exhibition is free and is open to the public from 10 a.m. to 6 p.m. each day. Twenty artworks by nine featured artists form a trail through the College grounds; this year it is an all-female line up and sculptors include Rachel Whitread, Cornelia Parker, and Phyllida Barlow. Further details are available at <https://www.jesus.cam.ac.uk/college/events/sculpture-close>.

EXTERNAL NOTICES**Oxford Notices**

Faculty of Law: Professorship of Socio-Legal Studies; closing date: 29 September 2017; further details: <https://www.ox.ac.uk/about/jobs/academic/index/>

Rollo Davidson Trust

The Rollo Davidson Trustees give notice of the award of the 2017 Thomas Bond Sprague Prize jointly to:

O. Feng of Trinity College, and
D. Heydecker of Queens' College

for distinguished performance in the 2017 Master of Mathematics / Master of Advanced Studies in Mathematics examinations, in the areas of probability and statistics.

Full details of the Award can be found at <http://www.statslab.cam.ac.uk/Rollo/sprague.html>.

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