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NOTICES

Calendar

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

8 October, Tuesday. Full Term begins. Discussion in the Senate-House at 2 p.m. (see below).

This is the last ordinary issue of the Reporter for the 2018–19 academic year. The first ordinary issue of the 2019–20 academic year will be published on 25 September 2019.

Discussion on Tuesday, 8 October 2019

The Vice-Chancellor invites those qualified under the regulations for Discussions (Statutes and Ordinances, p. 105) to attend a Discussion in the Senate-House on Tuesday, 8 October 2019 at 2 p.m., for the discussion of:


Further information on Discussions, including details on format and attendance, is provided at https://www.governance.cam.ac.uk/governance/decision-making/discussions/.

Election of a member of the Council’s Finance Committee in class (b)

19 July 2019

The Head of the Registrary’s Office has received the following nomination for the Council’s Finance Committee, for election in class (b) by the Representatives of the Colleges:

Dr Richard Anthony, JE, nominated by Ms L. M. Thompson, LC, and Dr M. R. Wormald, PEM

No other candidates having been nominated, Dr Anthony, currently a co-opted member of the Finance Committee in class (f), is duly elected to serve as a member of the Finance Committee in class (b) with immediate effect until 31 December 2020.

Notice of benefactions

22 July 2019

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

- a benefaction of £10m from Viswanathan (Eashwar) Krishnan and Tzo Tze Ang, payable over up to ten years, £7,500,000 of which will be used to support a research facility focused on the early detection of cancer within a new cancer research hospital, and for priority research areas in cancer, and £2,500,000 of which will be used to support Ph.D. studentships and postdoctoral researchers at Trinity College;
- a benefaction of £8m from The Hatton Trust to support the Foundation for Genomics and Population Health (the PHG Foundation) for a period of fourteen years;
- a benefaction of £4.5m from Gianna Angelopoulos to support the Gianna Angelopoulos Programme for Science, Technology and Innovation within the Department of Physics for five years; the Programme will focus on the advancement of research in the fields of computational multiphysics and energy materials and related science and technology areas;
- a further benefaction of £2.6m from the LEGO Foundation, payable over five years, to support the Centre for Research on Play in Education, Development and Learning (PEDAL) (see Reporter, 6390, 2014–15, p. 615);
- a benefaction of £2.5m from Huawei, payable over five years, to support Ph.D. students studying computer science and information engineering in the Department of Computer Science and Technology and the Department of Engineering, to be named the Huawei Studentships;
- benefactions totalling £1.3m from Baillie Gifford & Co, of which £700,000, payable over five years, will be used to support a Programme on Responsible AI within the Leverhulme Centre for the Future of Intelligence, and £600,000, payable over five years, will be used to support M.Phil. students in Arts and Humanities;
- a benefaction of £1,124,054 from Goldman Sachs Gives (UK) to support the Gnodde Goldman Sachs Translational Neuroscience Group of the Dementia Research Institute within the Department of Clinical Neurosciences, for a period of five years;
- a benefaction of £1m from Newton Investment Management Ltd to support the Centre for Endowment Asset Management within Cambridge Judge Business School for a period of ten years;
- a benefaction of £750,000 from a donor who wishes to remain anonymous, payable in two instalments, to support a University Lectureship in Palliative Care for ten years;
a benefaction of £682,000 from Sir Harvey McGrath to support the Centre for Social Innovation, including funding for two Harvey McGrath Scholarships, in Cambridge Judge Business School for a period of one year;

benefactions totalling £625,000 from The Pouroulis Foundation, of which £400,000, payable over four years, will be used to support a three-year doctoral studentship and a one-year postdoctoral fellowship on a ‘Cyprus in the Eastern Mediterranean’ research project, and £225,000, payable over three years, will be used to support a part-time Fellow in African Quaternary Archaeology and Hominin Palaeoecology over the same period, both in the Department of Archaeology;

a benefaction of £5,000,000 Chinese Yuan (CNY) from Wuershan to support teaching and research in the Department of Social Anthropology, including the Mongolian and Inner Asia Studies Unit;

a benefit of £500,000 from the Solenium Foundation, payable over five years, to support Centre for the Study of Existential Risk (CSER), an interdisciplinary research centre in the Centre for Research in the Arts, Social Sciences, and Humanities (CRASSH);

philanthropic grants totalling US$547,145 from The Kavli Foundation, payable over four years; a grant of $208,198 is to support the Kavli Institute of Cosmology’s outreach programme including the funding of a Kavli Outreach Officer, and a grant of $338,947 is to support the Institute’s Gravitational Waves programme by funding a Kavli Senior Fellowship in Gravitational Waves and two Kavli Summer Schools in Gravitational Waves over the same period. The University has agreed to provide contribution funding totalling £233,164 over the same period;

a further benefaction of £420,000, payable over four years, from the Reuben Foundation, to further support the work of the Cambridge Bursary Scheme in awarding additional bursaries to at least 40 undergraduates, to be known as Reuben Bursaries, and to be awarded over the same period (see Reporter, 6515, 2017–18, p. 815);

a benefaction of £385,000 from the Goldsmiths’ Company Charity, payable over two years, to support the Goldsmiths’ Company Charity Legacy Research Programme on Precious Metals for the Jewellery Industry;

a further benefaction of US$464,792 from the Dr Miriam and Sheldon G. Adelson Medical Research Foundation to support collaborative research across the Wellcome-MRC Cambridge Stem Cell Institute, Department of Clinical Neurosciences, and Department of Paediatrics, of which $317,280 is to support research by Professor Robin Franklin on the effect of ageing on remyelination potential and $147,512 is to support research by Professor David Rowitch on understanding cellular diversity and age-related repair efficiency in Multiple Sclerosis (see Reporter, 6515, 2017–18, p. 815);

a benefaction of £360,000 from Sappi Europe SA, payable over three years, to support a fixed-term senior postdoctoral research fellowship within the Prince of Wales Global Fellowship Programme in the Cambridge Institute for Sustainability Leadership (CISL), to be named the Sappi Senior Fellowship;

further benefactions totalling £336,682 from the A. G. Leventis Foundation in support of the following projects: to the Cambridge Conservation Initiative for a Programme Manager to develop the CCI Natural Capital Hub (£126,682 payable over two years); and to the Department of Archaeology, to fund a postdoctoral research fellowship in African Archaeology (£210,000 payable over three years);

a benefaction of £330,000 from Unilever to support a fixed-term postdoctoral research fellowship within the Prince of Wales Global Fellowship Programme in the Cambridge Institute for Sustainability Leadership (CISL), to be named the Unilever Research Fellowship;

a benefaction of £328,500 from Fetch.AI to support a research programme on the economics of blockchain technology for a period of three years, by funding a postdoctoral researcher, an annual conference, and a series of fora and dinners focused on the programme’s key research themes;

a benefaction of up to £320,000 from Merky Foundation Limited to support four University scholarships, two beginning in 2018 and two beginning in 2019, to encourage black students to apply to the University in order to address the under-representation of black undergraduate students, to be named the Stormzy Scholarships;

a benefaction of £300,000, from Paul and Michelle Gilding Pty Ltd, payable over three years, to support a fixed-term junior postdoctoral research fellowship within the Prince of Wales Global Fellowship Programme in the Cambridge Institute for Sustainability Leadership (CISL), to be named the Gilding Research Fellowship;

a benefaction of £300,000 from Cambridge in America, following a donation from Royalty Pharma, payable over three years, to support the Cambridge Academy of Therapeutic Sciences (CATS), which was established in 2017 with the aim of establishing a world-leading platform for collaboration between academia and industry in the development of therapeutics;

a philanthropic grant of £267,607 from the National Heritage Memorial Fund towards the purchase of a marble bust of Queen Victoria by Sir Alfred Gilbert, to be added to the Fitzwilliam Museum’s collection;

a further benefaction of up to £258,750 from the Wolfson Foundation to fund three doctoral students for three years as part of the seventh cohort of Wolfson Postgraduate Scholars in the Humanities. The University and the Cambridge Trust have also agreed to contribute funding of £86,250 to enable a fourth scholarship to be offered (see Reporter, 6493, 2017–18, p. 354);

a benefaction of £250,000 from a donor who wishes to remain anonymous, payable in five instalments, to support the Centre for the Study of Existential Risk (CSER), an interdisciplinary research centre in the Centre for Research in the Arts, Social Sciences, and Humanities (CRASSH);

a bequest of £250,000 from the estate of a benefactor who wished to remain anonymous, to contribute to The Regius Professor of Physic Medical Leaders Fund to support medical students in the University;
• a further benefaction of £250,000 from ARM to support continuing research in the area of rigorous architecture specification in the Department of Computer Science and Technology (see Reporter, 6493, 2017–18, p. 354);
• a benefaction of £250,000 from DeepMind Technologies to support the work of Dr Robert N. M. Watson and Professor Peter Sewell, which is currently intended will be used to support their programme of research known as RESET (Rigorous Engineering for Secure and Trustworthy Systems) within the Department of Computer Science and Technology;
• a benefaction of £250,000 from the Killinchy Hong Kong Settlement for the purpose of supporting the following at the Department of Engineering: (i) the Department’s Outreach Coordinator and team; and (ii) the Dyson Centre for Engineering Design, including honorarium payments for postgraduate student supervisors training undergraduate students;
• a benefaction of £250,000 from the Milner Foundation, payable over three years, to support the Centre for the Study of Existential Risk (CSER), an interdisciplinary research centre in the Centre for Research in the Arts, Social Sciences, and Humanities (CRASH);
• a benefaction of £211,100 from the H. B. Allen Charitable Trust to support the research of Professor Manohar Bance, Department of Clinical Neurosciences, aiming to localise the sites of damage in different types of hearing loss, and to potentially diagnose previously unknown subtypes of deafness;
• a further benefaction of £200,000 from Winton Philanthropies to support the Isaac Newton Institute for the Mathematical Sciences;
• a benefaction of US$200,000 from Cambridge in America, following a bequest from Jerome Rowitch, to support development of child health research in the Department of Paediatrics;
• an unrestricted grant of US$200,000 from Cambridge in America, following a donation from the Berkeley Existential Risk Initiative, to support the work of the Centre for the Study of Existential Risk;
• a benefaction of £150,000 from Mr Jim and Mrs Alys Garman, payable over three years, to contribute support to extend the Insight and Insight+ widening participation programmes within the city of Cambridge;
• a benefaction of £148,000 from Mr Alex Callander, payable over two years, to support one M.Phil. studentship and one Ph.D. studentship in Cambridge Judge Business School;
• a benefaction of £143,985.41, the David J. Hall Legacy (via the Fitzwilliam Museum Development Trust) to support acquisition funds within the Fitzwilliam Museum’s Department of Manuscripts and Printed Books (MSSPB), as requested by David J. Hall, to be known as the ‘David Hall Purchase Fund for MSSPB’;
• a benefaction of £141,320 from the Canada-UK Foundation to support the Canada-UK Postdoctoral Fellowship Programme in the Office of Postdoctoral Affairs;
• a further benefaction of US$170,000 from Microsoft Corporation to support the work of the Microsoft Cloud Computing Research Centre, which is a collaboration between the University’s Department of Computer Science and Technology and the Cloud Legal Project at Queen Mary University of London (see Reporter, 6493, 2017–18, p. 354);
• a benefaction of US$140,000 from Huawei, which will be used to support research in the Department of Computer Science and Technology, as follows: $90,000 to support Dr Robert N. M. Watson and Professor Simon Moore to further their research on designing micro-architectural solutions for CPU security and for validating the security of those designs; and $50,000 to support Dr Sergei Skorobogatov to research countermeasures for mitigating hardware vulnerabilities in mobile processors;
• a benefaction of US$165,371 from Cambridge in America, following a donation from the Deborah Loeb Brice Foundation, to support Art Conservation Studentships in the Hamilton Kerr Institute;
• a donation of 75,689 ITV shares (the sale of which has raised £119,039) from Dame Janet Wolfson de Botton to the University Library for the purpose of supporting the following acquisition: Vincent de Beauvais, Miroir hystorial, two volumes, Paris, 1531, from the Library of Michel de Montaigne;
• a further benefaction of up to £118,852 from Perennial – Gardeners’ Royal Benevolent Society, payable over five years, to support a Trainee Horticultural Technician Programme (one traineeship per year) at the Botanic Garden over the same period (see Reporter, 6353, 2013–14, p. 645);
• a benefaction of Swedish Krona 1,350,000 from the Axel and Margaret Ax:son Johnson Foundation for Public Benefit to support the Engelsberg Programme for Applied History, Grand Strategy and Geopolitics in the Department of Politics and International Studies, by promoting research and supporting events in the area of Applied History under the direction of the Forum on Geopolitics, led by Professor Brendan Simms;
• a benefaction of £114,700 from the Bosch Research Foundation to support a Ph.D. studentship in the Department of Computer Science and Technology;
• a benefaction of £100,000 from the Aldama Foundation to the Fitzwilliam Museum to support the acquisition of Nicolas Largillière’s portrait of Charles-Jean-Pierre de Barentin, Comte de Montchal;
• a benefaction of £100,000 from Mr Mark Hanson to support a programme of sports services for high performance scholar athletes at the University;
• a further benefaction from Ms Claire Barnes to the Department of Zoology, including support for a start-up fund for the incoming Claire Barnes Lecturer in Marine Biology; support for a Wynne-Simmons Studentship in Marine Biology; support for the Claire Barnes Studentship in the Biology and Ecology of Asia; and support for the Claire Barnes Studentship in Marine Biology under the supervision of the Claire Barnes Lecturer in Marine Biology (see Reporter, 6515, 2017–18, p. 815).
The Vice-Chancellor also gives notice that he has accepted with gratitude the following benefactions as endowment:

- a further benefaction of up to £5m from the Kavli Foundation as endowment funding, to be matched on a one-to-one basis by 1 December 2026, to support the Kavli Institute for Cosmology and to be added to the capital of the Kavli Institute Fund (Statutes and Ordinances, p. 876), of which matching funding has so far been contributed from Mr Gavin Boyle (£500,000) alongside £3.11m in underlying support from the University of Cambridge;
- a legacy of £596,188 under the will of Dr Mary Brenda Hesse to the University of Cambridge, which will be added to the Vice-Chancellor’s Endowment Fund (Statutes and Ordinances, p. 1000).

The Vice-Chancellor also gives notice that he has accepted with gratitude a donation from Mr David Cramond to the University Library consisting of eighty letters between William Kemp and correspondents including Charles Darwin and Robert Chambers, dating from 1840 to 1861.

**Unregulated fees**

22 July 2019

**Changes in the fee approval process for unregulated fees**

The Council has agreed that, from 2019–20, the Planning and Resources Committee will be the approval body for unregulated fees, therefore Council approval and the publication of a Grace for the majority of routine fee-setting will no longer be required. The decisions on unregulated fees by the Planning and Resources Committee will be reported to the Council through its minutes and through the publication of fees. The approval process will remain rigorous but to a shorter timetable.

The University Composition Fees charged to Home and EU undergraduate students will continue to be subject to approval by Grace and accompanied by an analysis of the costs of an undergraduate education, in accordance with Regulation 12 of the regulations for University Composition Fees (Statutes and Ordinances, p. 151). Additional approval may also be sought for structural changes to fees, such as the introduction of a new band, or a change to the fee agreements between the University and the Colleges.

**Unregulated fees for 2020–21**

The approved unregulated fees for 2020–21 are available at: https://www.prao.admin.cam.ac.uk/fees/fee-schedules

**Board of Scrutiny: Appointments made by the Council**

22 July 2019

As there were two unfilled vacancies on the Board following a recent election (Reporter, 6551, 2018–19, p. 667), the Council was asked whether it wished to make appointments to the Board or to ask the Vice-Chancellor to arrange a further election, in accordance with Regulation 3 of the regulations for the election of members of the Board (Statutes and Ordinances, p. 114). Given that an election would have delayed appointments until the Lent Term 2020, it decided to ask the Senior and Junior Proctors, both members of the Board of Scrutiny, to nominate two candidates for appointment. The Council, on the nomination of the Senior and Junior Proctors, has made the following appointments in the classes shown, to serve from 1 October 2019 for four years:

Class (c)(i) (a person who has been a member of the Regent House for not more than ten years on 1 October 2019):
- **Ms Saba Ala’i**

Class (c)(ii) (a member of the Regent House):
- **Dr David James Butterfield, Q**

1 In accordance with Regulation 3 of the regulations for the election of members of the Council, which regulations also apply to the Board of Scrutiny (Statutes and Ordinances, p. 112).

**First-stage Report of the Council on the construction of the National Centre for Propulsion and Power: Notice in response to Discussion remarks**

22 July 2019

The Council has received the remarks made at the Discussion on 2 July 2019 on the above Report (Reporter, 2018–19; 6551, p. 684; 6555, p. 809).

Mr Llavero Pasquina raised a number of concerns about the links between the external organisations contributing to the cost of the National Centre for Propulsion and Power and the arms industry, and questioned the real objectives of this project. The external organisations involved are the Aerospace Technology Institute, Rolls-Royce, Mitsubishi and Siemens. The Aerospace Technology Institute was set up by government to help the UK realise the opportunity available of capturing a valuable share of the growing global civil aviation market. Its remit does not allow funding on military projects. The Whittle Laboratory has long-standing research relationships with these organisations. The Council is satisfied that continuing to engage with them, and others, to address the challenge of decarbonising the world’s propulsion and power sectors is exactly what the University should be doing. The proposed new Centre will make a significant
Joint Report of the Council and the General Board on the governance of matters for postgraduate and graduate students: Notice in response to Discussion remarks

22 July 2019

The Council has considered the remarks made at the Discussion on 9 July 2019 on the above Report (Reporter, 2018–19; 6553, p. 726; 6556, p. 830). The Council has consulted with the General Board in the preparation of this response.

The Council acknowledges the careful work that the Board of Graduate Studies does, in particular in handling individual cases, but also notes the concerns raised both at the Discussion and during the consultation about overlap between the Board’s work and new procedures for student examination and progress appeals.

Dr Cowley and Dr Padman both comment on the role of the Office of Student Conduct, Complaints and Appeals (OSCCA) and suggest that its function is to minimise risk to the University. The revisions made to the procedures over the last 15 years, since the introduction of the Office of the Independent Adjudicator as the external ombudsman, and more recently in the last three years since the introduction of OSCCA, have been to ensure that the University’s procedures in relation to complaints and appeals are more transparent and accessible to students. That these measures are working to raise the profile of the procedures, increase engagement and provide more equitable outcomes has been evidenced by the growing numbers of complaints and appeals that have been received and the more consistent remedies that have been applied. The Council is grateful to the small panel of academic decision-makers who volunteer a significant period of time to considering student complaints and appeals and putting in place appropriate and proportionate remedies where necessary.

Mr Collinson suggests that the term ‘graduate student’ should be retained and applied to all post-undergraduate students. The Council is of the view that the proposed change in nomenclature is appropriate and reflects terminology used widely in the UK HE sector. It also avoids confusion between the status of undergraduates who have graduated from the University and students who are continuing with their studies after graduation from this or another university. Documents and websites commonly used will need to be reviewed and references updated, but the expectation is that this work will be undertaken as part of the regular review and update of material.

The Council agrees with Dr Padman that there is a need for change in the governance arrangements for postgraduate students. However, it does not agree that pushing back the implementation date of changes to Michaelmas Term 2020 would be helpful, particularly as the Report’s proposals provide a new, more integrated body which will assume the main responsibilities of the Board of Graduate Studies, including a review of the matters that Dr Padman and others consider to require further thought, and cover transitional arrangements from Michaelmas Term 2019. Given the importance of the proposed changes both for students and academic governance in the University, the Council and the General Board continue to support the central proposals of the Report but have agreed to make the following changes put forward by Dr Padman and supported by others:

(a) to place the Postgraduate Committee formally under the General Board, but still providing its minutes to the General Board’s Education Committee to ensure that issues relating to postgraduate students continue to be considered by that Committee; and

(b) to commit to bringing forward a Report to the Regent House on the proposals arising from the review to be conducted by the Postgraduate Committee.
Amendments would therefore be made to the Postgraduate Committee’s terms of reference to reflect the change to the reporting line, by replacing references to the Education Committee with references to the General Board. The General Board has also agreed to amend the membership of the Postgraduate Committee in class (d), as suggested by Dr Cowley, which now reads as follows:

(d) three members of the Regent House who have a broad subject balance and who have an interest in research student matters;

The Council is submitting a Grace (Grace 4, p. 863) for the approval of the recommendations of the Report, as amended by this Notice.

23 July 2019  
STEPHEN TOOPE, Vice-Chancellor  
SAM AINSWORTH  
ALESSANDRO CECCARELLI  
R. CHARLES  
SHARON FLOOD  
ANTHONY FREELING  

NICHOLAS GAY  
DAVID GREENAWAY  
JENNIFER HIRST  
CHRISTOPHER KELLY  
JEREMY MORRIS  
EDWARD PARKER HUMPHREYS

23 July 2019  
STEPHEN TOOPE, Vice-Chancellor  
PHILIP ALLMENDINGER  
ALESSANDRO CECCARELLI  
JOHN DENNIS  
ABIGAIL FOWDEN  

A. L. GREER  
ALI HYDE  
PATRICK MAXWELL  
RICHARD REX  
HELEN THOMPSON

Annual Reports

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

- Estate Management, 2017–18  

- Fitzwilliam Museum and Hamilton Kerr Institute, 2017–18  
  https://www.fitzmuseum.cam.ac.uk/aboutus/mission (click the relevant link on the right-hand side)

- Institute of Continuing Education, 2017–18  
  http://www.ice.cam.ac.uk/annual-report

- Kettle’s Yard, 2017–18  
  https://www.kettlesyard.co.uk/about/ (click the relevant link on the left-hand-side)

- University Library, 2017–18  
  http://www.lib.cam.ac.uk/about-library/library-management/annual-reports-library

- University Sport, 2017–18  

University Combination Room closures

The University Combination Room will be closed as follows:

- Monday, 12 August 2019 until 9 a.m. on Tuesday, 27 August 2019 (for annual maintenance); and
- Thursday, 26 September 2019 (for a private event).

Retrospectivity concerning the LL.M. Degree

The Registrary gives notice that, under Regulation 9 for Supplicats (Statutes and Ordinances, p. 178; see also Reporter, 1984–85, p. 38), the following holder of the LL.B. Degree, who satisfied the Examiners for the LL.B. Examination before 1 October 1982, has now been redesignated as a holder of the LL.M. Degree:

This content has been removed as it contains personal information.
VACANCIES, APPOINTMENTS, ETC.

Electors to the Bertrand Russell Professorship of Philosophy

The Council has appointed members of the *ad hoc* Board of Electors to the Bertrand Russell Professorship of Philosophy as follows:

Ms Bridget Kendall, *PET*, in the Chair, as the Vice-Chancellor’s deputy

(a) *on the nomination of the Council*

   Professor Miranda Fricker, *City University of New York*
   Professor Katherine Hawley, *University of St Andrews*

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

   Professor Timothy Lewens, *CL*
   Professor Lucy O’Brien, *University College London*
   Professor Timothy Williamson, *University of Oxford*

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

   Professor Rae Langton, *N*
   Professor Alex Oliver, *CAI*
   Professor Christopher Young, *PEM*

Electors to the Professorship of Surgical Oncology

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

Professor Jane Clarke, *W*, in the Chair, as the Vice-Chancellor’s deputy

(a) *on the nomination of the Council*

   Dr Hugo Ford, *M*
   Professor Patrick Maxwell, *T*

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

   Professor Rebecca Fitzgerald, *T*
   Professor Freddie Hamdy, *University of Oxford*
   Professor Evis Sala, *G*

(c) *on the nomination of the Faculty Board of Clinical Medicine*

   Professor Sarah Blagden, *University of Oxford*
   Professor Richard Gilbertson, *JN*
   Professor Greg Hannon, *T*

Electors to the Nanjing Professorship of Technology and Innovation

The Council has appointed members of the *ad hoc* Board of Electors to the Nanjing Professorship of Technology and Innovation as follows:

Professor Athene Donald, *CHU*, in the Chair, as the Vice-Chancellor’s deputy

(a) *on the nomination of the Council*

   Professor Andrew Flewitt, *SID*
   Professor Sir Mark Welland, *CTH*

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

   Professor John Dennis, *SE*
   Professor Eïlis Ferran, *CTH*
   Professor Alwyn Seeds, *University College London*

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

   Professor David Cardwell, *F*
   Professor Małgorzata Kujawińska, *Politechnika Warszawska*
   Professor Richard Prager, *Q*
Elections and appointments

The following elections and appointments have been made:

**Elections**

Professor Srinivasan Keshav, B.Tech., *Indian Institute of Technology, Delhi*, Ph.D., *University of California, Berkeley*, Professor, University of Waterloo, elected Robert Sansom Professor of Computer Science with effect from 1 October 2019.

Dr Giles Edward Dixon Oldroyd, B.S., *University of East Anglia*, Ph.D., *University of California, Berkeley*, Group Leader, Sainsbury Laboratory, elected Russell R. Geiger Professor of Crop Science with effect from 1 October 2019.

**Appointments**

**University Senior Lecturer**


**University Lecturers**

*Applied Mathematics and Theoretical Physics.* Dr Maria Bruna Estrach, B.Math., M.Eng., *Politecnica de Catalunya,* M.Sc., D.Phil., *Oxford,* appointed from 1 July 2019 until the retiring age and subject to a probationary period of five years.

*Law.* Dr Shona Wilson Stark, Ph.D., G, LL.B., LL.M., Dip.L.P., *Aberdeen,* appointed from 1 October 2019 until the retiring age and subject to a probationary period of five years. Mr Bobby Vijay Reddy, B.A., LL.M., G, PG.Dip., LPC, *Guildford,* appointed from 1 January 2020 until the retiring age and subject to a probationary period of five years.

*Medicine.* Dr Matthew William Hoare, M.B. B.Chir., Ph.D., R, MRCP, appointed from 1 January 2020 until the retiring age and subject to a probationary period of five years.

*Modern and Medieval Languages.* Dr Miranda Helen Griffin, B.A., M.Phil., Ph.D., *NH,* appointed from 1 September 2020 until the retiring age and subject to a probationary period of five years.

**Correction**

In the original Notice published on 10 July 2019 (*Reporter*, 6555, 2018–19, p. 798), the appointment of Dr Sheffield was mistakenly placed within the Divinity entry rather than in Classics. The Notice has since been amended to include the following:

*Classics.* Dr Frisbee Candida Cheyenne Sheffield, B.A., *Bristol,* M.Phil., *N,* D.Phil., *Oxford,* appointed from 1 September 2019 until the retiring age and subject to a probationary period of five years.

**NOTICES BY THE GENERAL BOARD**

**Senior Academic Promotions, 1 October 2019 exercise: Appointments and titles**

In its Report, dated 5 June 2019, on Senior Academic Promotions (*Reporter*, 6551, 2018–19, p. 686), the General Board recommended the establishment of 43 Professorships and 46 Readerships. In Paragraph 5 it was stated that the Board would announce the titles at a later date after consultation with the individuals concerned. The recommendations of the Report were approved by Grace 2 of 10 July 2019. The following list of appointments includes the titles that have been agreed.

**Professorships**

**With effect from 1 October 2019**

*School of Arts and Humanities*

Dr Caroline Vout, **CHR**, appointed Professor of Classics
Dr Raphael Lyne, **MUR**, appointed Professor of Renaissance Literature
Dr Helena Sanson, **CL**, appointed Professor of Italian, History of Linguistics, and Women’s Studies

*School of the Biological Sciences*

Dr Uta Paszkowski, **JN**, appointed Professor of Plant Molecular Genetics
Dr Jonathan Simons, **EM**, appointed Professor of Cognitive Neuroscience
Dr Mark Holmes, **CHU**, appointed Professor of Microbial Genomics and Veterinary Science
Dr Elizabeth Murchison appointed Professor of Comparative Oncology and Genetics

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1 One applicant has since elected not to take up the office of Reader.
School of Clinical Medicine
Dr EDMUND KUNJI, TH, appointed Professor of Biophysics
Dr GEORGE VASSILIOU, appointed Professor of Haematological Medicine
Dr MENNA CLATWORTHY, PEM, appointed Professor of Translational Immunology
Dr ANTHONY DAVENPORT, CTH, appointed Professor of Cardiovascular Pharmacology
Dr JASON CARROLL, CL, appointed Professor of Molecular Oncology
Dr MASASHI NARITA, appointed Professor of Senobiology
Dr DANIELA DE ANGELES, appointed Professor of Statistical Science for Health
Dr MARTIN WHITE, appointed Professor of Population Health Research

School of the Humanities and Social Sciences
Dr CATHERINE BURKE, appointed Professor of History of Education
Dr NANDI SINGHAL, HH, appointed Professor of Disability and Inclusive Education
Dr ANDREAS SYLIANIDES, HH, appointed Professor of Mathematics Education
Dr ANNABEL BRETT, CAI, appointed Professor of Political Thought and History
Dr PETER SARRIS, T, appointed Professor of Late Antique, Medieval and Byzantine Studies
Dr SUJIT SIVASUNDARAM, CAI, appointed Professor of World History
Dr PAUL WARD, PEM, appointed Professor of Environmental History
Dr DAVID SNEATH, CC, appointed Professor of Social Anthropology
Dr DUNCAN BELL, CHR, appointed Professor of Political Thought and International Relations
Dr JUDITH BROWNE, K, appointed Professor of Politics and Public Policy
Dr ALBERTINA ALBORS-LLORENS, JN, appointed Professor of European Union Law
Dr JENS SCHERPE, CAI, appointed Professor of Comparative Law
Dr BENJAMIN CREWE, appointed Professor of Penology and Criminal Justice

School of the Physical Sciences
Dr MARIE EDMONDS, Q, appointed Professor of Volcanology and Petrology
Dr JASON MILLER, T, appointed Professor of Probability
Dr VASILY BELOKUROV, appointed Professor of Astronomy
Dr CATERINA DUCATI, T, appointed Professor of Nanomaterials
Dr JASON ROBINSON, JN, appointed Professor of Materials Physics
Dr ERIKA EISER, SID, appointed Professor of Soft Matter Physics
Dr AUSTEN LAMACRAFT, JN, appointed Professor of Theoretical Physics

School of Technology
Dr AHMED KHWAJA, appointed Professor of Marketing, Business and Public Enterprise
Dr WAH MAK, appointed Professor of Marketing and Decision Sciences
Dr ALASTAIR BERESFORD, Q, appointed Professor of Computer Security
Dr PAULA BUTTERY, CAI, appointed Professor of Language and Machine Learning
Dr MATEJA JAMNIK, appointed Professor of Artificial Intelligence
Dr ANDREW MOORE, CC, appointed Professor of Networked Systems
Dr PER OLA KRISTENSSON, T, appointed Professor of Interactive Systems Engineering
Dr SEBASTIAN SAVORY, CHU, appointed Professor of Optical Fibre Communication

Readerships
With effect from 1 October 2019

School of Arts and Humanities
Dr EMILY SO, M, appointed Reader in Architectural Engineering
Dr MICHAEL RAND, appointed Reader in Hebrew and Aramaic
Dr PHILIP CONNELL, SE, appointed Reader in Literature and History
Dr MICHAEL HURLEY, CTH, appointed Reader in Literature and Theology
Dr MARIA CONDE, JE, appointed Reader in Brazilian Studies and Visual Culture

School of the Biological Sciences
Dr LOUISE BOYLE, ED, appointed Reader in Molecular Immunology
Dr EWAN SMITH, CC, appointed Reader in Nociception
Dr ANDREW TANENTZAP, PET, appointed Reader in Global Change Ecology
Dr DAVID BELEN, HO, appointed Reader in Behavioural Neuroscience
Dr CINZIA CANTACESSI, appointed Reader in Parasite Infection Biology
School of Clinical Medicine
Dr Evan Reid, ED, appointed Reader in Neurogenetics and Molecular Neurobiology
Dr Mark Evans appointed Reader in Diabetic Medicine
Dr Sanjay Sinha appointed Reader in Cardiovascular Regenerative Medicine
Dr Angela Wood, DAR, appointed Reader in Health Data Science

School of the Humanities and Social Sciences
Dr Chrysi Giannitsarou, K, appointed Reader in Macroeconomics and Finance
Dr Donald Robertson, PEM, appointed Reader in Econometrics
Dr Shawn Bullock, EM, appointed Reader in the History of Science, Technology and Education
Dr Yongcan Liu, DOW, appointed Reader in Applied Linguistics and Languages Education
Dr Amy Erickson, R, appointed Reader in Feminist History
Dr Renaud Morieux, JE, appointed Reader in British and European History
Dr Adam Branch, TH, appointed Reader in International Politics
Dr Jonathan Morgan, CC, appointed Reader in English Law
Dr Sarah Nouwen, PEM, appointed Reader in International Law
Dr Stephen Watterson, TH, appointed Reader in Private Law
Dr Daniel Margocsy, appointed Reader in History of Science, Technology and Medicine
Dr Richard Staley, CAI, appointed Reader in History and Philosophy of Science
Dr Jacob Stegenga, HH, appointed Reader in Philosophy of Science

School of the Physical Sciences
Dr Luke Skinner, M, appointed Reader in Earth System Science
Dr Ian Willis, CTH, appointed Reader in Glaciology
Dr Rajen Shah appointed Reader in Statistics
Dr Perla Sousi, EM, appointed Reader in Probability
Dr Peter Varju appointed Reader in Pure Mathematics
Dr Rachel Evans, JE, appointed Reader in Materials Chemistry
Dr Alexander Archibald, EM, appointed Reader in Atmospheric Chemistry
Dr Goncalo Lopes Bernardes, TH, appointed Reader in Chemical Biology

School of Technology
Dr Christos Genakos, F, appointed Reader in Economics and Policy
Dr Hatice Gunes Smith, TH, appointed Reader in Affective Intelligence and Robotics
Dr Robert Mullins, JN, appointed Reader in Computer Architecture
Dr Cesare Hall, K, appointed Reader in Aerothermal Engineering
Dr Hannah Joyce, JN, appointed Reader in Low-Dimensional Electronics
Dr Ajith Parlikad, HH, appointed Reader in Asset Management
Dr Stuart Scott, G, appointed Reader in Energy and Thermodynamics
Dr Ljiljana Fruk, SID, appointed Reader in BioNano Engineering
Dr Andrew Sederman, T, appointed Reader in Magnetic Resonance in Engineering

Non-School Institutions
Dr Samantha Williams, G, appointed Reader in Social History

Election of student members to Faculty Boards and other bodies
22 July 2019

With effect from 1 October 2019

The General Board proposes amendments to the way in which student representation on Faculty Boards and other bodies is structured, and to the electoral process for those roles, to increase clarity and streamline processes.

These changes are being put forward in response to a review of student academic representation carried out in 2018–19, conducted jointly by the Students’ Unions and the Education Quality and Policy Office, on behalf of the General Board’s Education Committee. This review included consultation with students, Faculties, Departments and Schools. The outcome of the review was that students lacked clarity on the student membership roles available, and how these fed into the University committee structures. Faculties and Departments generally felt that the process was inflexible and bureaucratic; in some areas established local practice was well-supported but others reported that attempting to overlay informal and formal structures contributed to students’ lack of identification with formal roles. Student engagement with elections was low, and elected representatives reported difficulties in communicating with the wider student body to seek feedback and input into committee business.

A consultation on proposed changes was circulated to all Faculty Boards and other bodies in May 2019. Conclusions and recommendations were reported to the General Board’s Education Committee on 12 June 2019.

The Council is submitting a Grace (Grace 5, p. 863) to seek approval for the following recommendations of the General Board:
The Board proposes that the election of student representatives for Faculty Boards and other bodies should be aligned to subject disciplines, in place of the current organisationally-driven structure. Subject representative roles will be determined by Cambridge University Students’ Union (CUSU) and the Graduate Union (GU) in collaboration with Faculty Boards and published annually by Notice in the Reporter, with each course being mapped to one or more available roles. The proposed structure provides a flexible framework, enabling well-established local systems to continue if desired.

2. Corresponding amendments to General Board Regulations governing the election of student members to Faculty Boards and other bodies should be made to remove the maximum number of members in class (f), and introduce a minimum of two. Above this minimum, each Board may choose its desired number of members in class (f). Regulations should further be amended to remove limitations on eligibility based on course and year of study, fellowships, and sabbatical office. These restrictions were not clear to students and have caused errors in the electoral rolls.

3. Administration and organisation of the electoral process should be managed jointly by CUSU, the GU and the Education Quality and Policy Office, with opportunities for Boards and other bodies to undertake local promotion as desired. This joint management would reinforce a collaborative approach between the Unions and the University, providing a clearer and more cohesive view of how elected subject representatives feed into wider University decision-making processes. The Unions would continue to have a recognised role in training and supporting representatives.

4. Elections should take place in a single window during the second half of the Michaelmas Term, aligned with existing CUSU/GU elections. The General Board acknowledges that in responding to the consultation, many Boards and other bodies expressed a wish to have earlier elections, albeit noting that this might not always be suitable from the students’ perspective. However, the Board believes that alignment with existing Union elections in which students already participate will give greater profile to these roles and hopefully engage more in voting for them. Bringing together the administration of elections would also make it easier to amend the timing of elections in future, should this be desired. As above, the flexible framework for establishing subject representative roles and how these relate to the Faculty Board or other relevant bodies would enable a variety of models to be implemented in response to each Board’s wishes.

5. The Board does not, at this time, propose to include Council of the School student members in the changes to align representation with subjects. These will remain a separately-elected role aligned with the specific organisational body. However, changes to General Board Regulations relating to student eligibility and organisation will impact these roles, and they will be elected in the same window.

6. The Board proposes making the following amendments to General Board Regulations and associated procedures with effect from 1 October 2019:

(a) General Regulations for the Constitution of the Faculty Boards (Statutes and Ordinances, p. 605)
   (i) Changing Regulation 1(f) to reference eligible students as determined by Regulation of the General Board instead of students in the Faculty;
   (ii) Changing Regulations 2(a) and 2(b) to introduce a minimum of two student members and remove the upper limit.

(b) Regulations for Classes of Faculty Board Membership, Elections and Periods of Office (Statutes and Ordinances, p. 607)
   (i) Changing Regulation 1 to remove the specified numbers in class (f) from the table in Schedule I, and to permit each Faculty Board to determine an appropriate number in line with Regulation 2 of the General Regulations;
   (ii) Changing Regulation 9 to draw members in class (f) from students elected as subject representatives (or exceptionally, with the approval of the Registrary in an individual case, from those eligible to stand for election as subject representatives) in accordance with the Regulations for the Election of Student Subject Representatives (see below).

(c) Regulations for the Election of Student Members of Faculty Boards and Other Bodies (Statutes and Ordinances, p. 608) (see the Annex for the text of the revised Regulations)
   (i) Amending the title of these Regulations to the ‘Election of Student Subject Representatives’;
   (ii) Assigning responsibility for these elections to CUSU/GU as part of their overall electoral scheme;
   (iii) Defining available roles and the courses which map to each role by Notice, to be published in the Reporter by CUSU/GU by 20 October each year;
   (iv) By incorporating information about eligibility to stand for election and vote in these Regulations (electoral rolls will continue to be centrally generated but will be provided to CUSU/GU in line with existing CUSU/GU roll dates at the Division of Michaelmas Term);
   (v) Enabling the Council to appoint the returning officer on the nomination of CUSU/GU;
   (vi) Amending the table in Schedule I to remove class (f);
   (vii) Deleting Schedule IV;
   (viii) Deleting Schedule V.
(d) Deleting the Rules made by the General Board in accordance with Regulation 11 for the election of student members of Faculty Boards and other bodies (Statutes and Ordinances, p. 612), as these have been incorporated in the Regulations under (c).

(e) Deleting the Procedure for allocation to electoral rolls of candidates for the Natural Sciences Tripos and the Medical Sciences Tripos and the Veterinary Sciences Tripos (Statutes and Ordinances, p. 613), as allocation to the relevant subject representatives will be defined in the Unions’ yearly Notice.

ANNEX

In accordance with paragraph 6(c) above, the following regulations will replace the regulations for the Election of student members of Faculty Boards and other bodies (Statutes and Ordinances, p. 608) with effect from 1 October 2019:

**Election of student subject representatives**

1. These regulations shall apply to the election of subject representatives who are eligible to serve on each Faculty Board or other University body whose membership includes student members, except in so far as may be provided otherwise in the special regulations for a particular Faculty Board or other body.

2. (a) The persons eligible to vote and to stand for election as subject representatives shall be those who are certified by the Registrary to be matriculated students pursuing a given course of study or research leading to a degree, diploma or certificate of the University, as identified by Notice under Regulation 4. Any question of interpretation of eligibility shall be determined by the Registrary, whose decision shall be final.

   (b) The Registrary shall not include in the electoral roll the name of any sabbatical officer of Cambridge University Students’ Union and the Graduate Union who has, before completing a course of study leading to the degree for which he or she intends to be a candidate, been given an allowance under Regulation 1(b) for Allowances to Candidates for Examinations for the purpose of holding such office.

3. An election for each subject representative shall be held in each academic year as outlined in the electoral scheme published by the Unions on their websites. Voting shall be by ballot. The date and procedure of the election, the final date for the receipt of nominations, and the hours of voting shall be determined by the returning officer identified in the Unions’ electoral scheme.

4. Cambridge University Students’ Union and the Graduate Union shall publish a Notice confirming

   (a) not later than 20 October each year, the subject representative roles for which elections will be held and the total number of vacancies. This Notice shall confirm by course the students who are eligible to stand for election to, and vote for, each of the subject representatives;

   (b) the returning officer appointed by the Council\(^1\) on the nomination of Cambridge University Students’ Union and the Graduate Union;

   (c) the location on the websites of the Cambridge University Students’ Union and the Graduate Union of the electoral scheme governing the elections.

5. Not later than the Division of the Michaelmas Term, the Registrary shall send to the returning officer an electoral roll of all the persons who on 9 November were eligible, under the provisions of Regulation 1 of the General Regulations for the Constitution of the Faculty Boards and of these regulations, to vote and to stand as candidates in the election. The roll shall be undivided, and the returning officer shall confer eligibility corresponding to the categories determined in accordance with Regulation 2. The Registrary shall have power, on the recommendation of the returning officer, to amend the roll at any time before the time fixed for the start of voting.

6. If at any election of a student subject representative the total number of vacancies is not filled, the returning officer may fix a date for the holding of a further election to fill those vacancies. Unless the returning officer determines otherwise, the persons eligible to vote and to stand as candidates in such an election shall be those persons who were so eligible in the preceding election; provided that no such person may vote or be a candidate in a further election if the Registrary certifies that he or she is no longer entitled to be included in the relevant electoral roll.

7. If a casual vacancy occurs, the returning officer shall determine whether a bye-election shall be held to fill the vacancy and shall determine the date on which any such election is to be held. Unless the returning officer determines otherwise, the persons eligible to vote and to stand as candidates in a bye-election shall be those persons who were eligible at the time of the last preceding annual election to vote and to stand as candidates in the election to the place which has been vacated, provided that no such person may vote or be a candidate in a bye-election if the Registrary certifies that he or she is no longer entitled to be included in the relevant electoral roll.

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\(^1\) The Council has delegated this responsibility to its Committee for the Supervision of the Student Unions (CCSSU).
Heads of the Schools of the Biological Sciences and the Physical Sciences

The General Board and the respective Councils of the Schools have approved the following appointments:

- Professor Anna Philpott, CL, Deputy Head of the Department of Oncology, as Head of the School of the Biological Sciences for four years from 1 August 2019;
- Professor Nigel Peake, EM, Head of the Department of Applied Mathematics and Theoretical Physics, as Head of the School of the Physical Sciences for four years from 1 January 2020.

Professor Philpott and Professor Peake will serve alongside the other current Heads of School:

- Professor Christopher Young, PEM, Head of the School of Arts and Humanities until 31 December 2022;
- Professor Patrick Maxwell, T, Head of the School of Clinical Medicine (Regius Professor of Physic);
- Professor Philip Allmendinger, CL, Head of the School of the Humanities and Social Sciences until 30 September 2020;
- Professor John Dennis, SE, Head of the School of Technology until 30 September 2022.

Professorship of Chemical Engineering (1999)

22 July 2019

The Professorship of Chemical Engineering will fall vacant on 30 September 2020. The General Board has received a recommendation from the Chemical Engineering and Biotechnology Syndicate that, in accordance with Special Ordinance C (vii) B. 18(a), the period of consultation concerning the vacancy be extended to 31 October 2021.

The Council has agreed to submit a Grace (Grace 6, p. 863) to extend the period of consultation for the Professorship.

REGULATIONS FOR EXAMINATIONS

Classical Tripos, Part Ia

(Statutes and Ordinances, p. 295)

With effect from 1 October 2019

The General Board, on the recommendation of the Faculty Board of Classics, has approved the following changes to the regulations for Part Ia of the Classical Tripos to enable the intensive Greek course, currently examined by Paper 2, to be divided into two streams, a ‘beginners’ stream and a ‘post-G.C.S.E. or equivalent’ stream.

Regulation 13.

By replacing the entry for Paper 2 with the following:

- Paper 2A. Alternative Greek languages and texts (Option A) (also serves as Paper GL 2A of Part Ia of the Modern and Medieval Languages Tripos)
- Paper 2B. Alternative Greek languages and texts (Option B) (also serves as Paper GL 2B of Part Ia of the Modern and Medieval Languages Tripos)

Regulation 14.

By replacing the text of Regulation 14 with the following:

14. Every candidate shall offer Paper 1 or Paper 2A or Paper 2B, either Paper 3 or Paper 4, and Paper 5. In addition, a candidate may offer one or both of Papers 6 and 7. No candidate may offer more than one of Paper 2A, Paper 2B and Paper 4.

Paper 1 is for candidates who had A-Level (or equivalent) in Greek before entry to the University. Paper 2A is for candidates who had no knowledge of Greek before entry to the University. Paper 2B is for candidates who had G.C.S.E. (or equivalent) but not A-Level (or equivalent) in Greek before entry to the University. Paper 3 is for candidates who had A-Level (or equivalent) in Latin before entry to the University or who have previously taken the Preliminary Examination to Part Ia of the Classical Tripos. Paper 4 is intended for candidates who did not have A-Level (or equivalent) in Latin before entry to the University and who have not previously taken the Preliminary Examination to Part Ia of the Classical Tripos.
History and Modern Languages Tripos, Part Ib

(Statutes and Ordinances, p. 345)

With effect from 1 October 2020

Further to the General Board’s Notice below, the following changes to the regulations for Part Ib of the History and Modern Languages Tripos have been approved.

Regulation 15.

Modern Languages

By amending paragraph (i) to read as follows:

(i) French, German, Italian, Russian, Spanish (Option B)

Translation and foreign language through the media (also serves as Paper B3 of the Modern and Medieval Languages Tripos) and oral examination B3 (also serves as oral examination B3 in the Modern and Medieval Languages Tripos).

Modern and Medieval Languages Tripos, Parts Ia and Ib

(Statutes and Ordinances, p. 392)

Part Ia

With effect from 1 October 2019

Following the approval of changes to the Classical Tripos (p. 849), consequential changes have been made to the regulations for Part Ia of the Modern and Medieval Languages Tripos as follows:

Regulation 20(b).

By amending Option A to read as follows:

Option A. Papers GL 2A or GL 2B and GL 5.

Schedule C

By replacing the entry for GL 2 with the following:

GL 2A. Alternative Greek languages and texts (Paper 2A of Part Ia of the Classical Tripos)
GL 2B. Alternative Greek languages and texts (Paper 2B of Part Ia of the Classical Tripos)

Part Ib

With effect from 1 October 2020

The General Board, on the recommendation of the Faculty Board of Modern and Medieval Languages, has approved changes to Part Ib of the Modern and Medieval Languages Tripos and the History and Modern Languages Tripos (see the Notice above) in respect of the language examination for Option B languages. The changes are introduced in response to feedback from External Examiners and students on the nature of the existing language examination in Part Ib, in particular in relation to the use of audio-visual material during written examinations and the current lack of an oral examination for Option B students in their second year.

Under the revised regulations, existing Paper B3 (Translation into the foreign language and language by audio-visual media) will be replaced by a new Paper B3 (Translation and foreign language through the media) and a new oral examination B3. The new written Paper B3 and oral examination B3 will be weighted as one whole paper for examination in Part Ib. The written element will be weighted at 66% of the total mark and the oral examination as 33% of the total mark.

Regulation 23.

By amending sub-paragraph (a)(iv) to read as follows:

(iv) either a third paper from Schedule Ia

or Paper B3, together with oral examination B3 in the language in which he or she previously offered Option B;

By amending sub-paragraph (b) to read as follows:

(b) a candidate who offered two modern languages in Part Ia, choosing Option B in each, shall offer in Part Ib Paper B3, together with oral examination B3, in each of the two languages, and three papers chosen from Schedule Ia;

Schedule A

By amending the title of Paper B3 to Translation and foreign language through the media

By inserting ‘oral examination B3’ after Oral examination B.
SUPPLEMENTARY REGULATIONS

(Statutes and Ordinances, p. 401)

PARTS Ia AND Ib

By including a reference to oral examination B3 in the second bold heading so it reads as follows:

Papers B1, B2 and B3, and Oral Examinations B and B3

Paper B3.

By amending the regulation to read as follows:

Paper B3. Translation and foreign language through the media

The examination for this paper will consist of the following two written papers, which will each account for a maximum of one third of the marks, and the oral examination, which will account for the remaining third of the marks (see below):

(a) Translation into the foreign language, in which candidates will translate one 300-word passage; and

(b) Foreign language through the media, in which candidates will answer one of two questions relating to video clips they have studied during the year; answers will be written in the foreign language and will be between 300 and 400 words in length.

By inserting the following new regulation:

Oral examination B3

This oral examination is part of Paper B3 (see above) and will account for a maximum of one third of the marks for the paper. The oral examination will be ten minutes in duration. Video clips, which will be between twelve and fifteen minutes long, will be made available to all candidates three days prior to the oral examination. Candidates will be asked to provide a two-minute presentation on the subject matter of the video clip. This will then be followed by an eight-minute conversation with two Examiners in which subject matter and approach will be explored and analysed.

Ultra Precision Engineering for the M.Res. Degree

(Statutes and Ordinances, p. 552)

With effect from 1 October 2019

The General Board, on the recommendation of the Faculty Board of Engineering, has approved the suspension of the examination in Ultra Precision Engineering for the degree of Master of Research for the 2019–20 academic year. The special regulations for the examination have been amended to include a footnote noting their suspension.

Diplomas and Certificates open to non-members of the University

(Statutes and Ordinances, p. 593)

With immediate effect

The list of certificates offered by the Faculty of Education in the Schedule of Diplomas and Certificates open to non-members of the University has been updated to reflect the titles of the postgraduate awards currently offered by the Faculty as part of its programme of practitioner professional development.

Certificates

Faculty of Education

Postgraduate Advanced Certificate in Educational Studies
Postgraduate Certificate in Educational Studies
Postgraduate Award in Educational Studies

With effect from 1 October 2019

Further to the Notice published on 15 May 2019 (Reporter, 6547, 2018–19, p. 562), the Schedule of Diplomas and Certificates open to non-members of the University has also been amended, with effect from 1 October 2019, to include the new CULP Award in Portuguese.

Certificates

Language Centre

CULP Award in Portuguese

1 See the Schedule to the regulations for the Postgraduate Awards of Practitioner Professional Development for a list of the courses offered for these awards.
Postgraduate Awards of Practitioner Professional Development

*(Statutes and Ordinances, p. 596)*

**With immediate effect**

The list of courses in the Schedule has been updated to reflect the courses currently offered as part of the Faculty of Education’s postgraduate awards programme:

By adding the following course to the Schedule:

*60-credit practitioner professional development courses*

- Educational assessment and examinations

And by removing the following courses from the Schedule:

*30-credit practitioner professional development courses*

- Teaching Shakespeare
- Teaching and learning through dialogue
- Contemporary issues in music education

**With effect from 1 October 2020**

The General Board has also approved the following amendments to the Schedule to the regulations.

By adding the following courses to the Schedule:

*30-credit practitioner professional development courses*

- Transforming practice

*60-credit practitioner professional development courses*

- Transforming practice

*90-credit practitioner professional development courses*

- Educational assessment
- Transforming practice

And by removing the following course from the Schedule:

*60-credit practitioner professional development courses*

- Educational assessment and examinations

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**NOTICES BY FACULTY BOARDS, ETC.**

**Engineering Tripos, Parts IIa and IIb, 2019–20: Modules**

**PART IIb: MODULES**

The Faculty Board of Engineering gives notice of a correction to the list of modules published on 12 June 2019 *(Reporter, 6551, 2018–19, p. 676)*. The following module will no longer be offered:

*Group M: Multidisciplinary modules*

- 4M3: Spanish

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**Historical Tripos: Amendment, 2020 and subjects and periods, 2021**

**Subjects and periods, 2020: Amendment**

Further to the Notices published on 25 July 2018 *(Reporter, 6516, 2017–18, p. 851)* and on 1 May 2019 *(Reporter, 6545, 2018–19, p. 495)*, the Faculty Board of History gives notice of an amendment to the specified subjects for Part II of the Historical Tripos in 2020, as follows:

**PART II**

By withdrawing the following from the list of specified subjects:

- 28. The history of the Indian sub-continent from the late eighteenth century to the present day

The Faculty Board is satisfied that no candidate’s preparation for examination will be adversely affected by this amendment.
Historical Tripos, 2021: Subjects and periods

The Faculty Board of History gives notice that the options for Paper 1 of Part I of the Historical Tripos, 2021 (Statutes and Ordinances, p. 338) will be as follows:

Themes and sources:

i Money and society from late antiquity to the financial revolution
ii Royal and princely courts: ancient, medieval and early modern
iv Remaking the modern body, 1543–1939
v Land, property and power in America, c.1500–2000
vi Comparative histories of race, class and culture: Southern Africa, 1850–2013
vii Performance and power in ancient and medieval cities
viii Imagining Ancient Rome in film, television and popular culture
ix The history of collecting
x Wealth and poverty in West Africa, from the slave trades to the present
xi Utopian writing 1516–1789
xii Fighting for Algeria, fighting for France, 1945–1962 (French sources)

The Faculty Board of History gives notice that the Special Subjects for Papers 2 and 3 of Part II of the Historical Tripos, 2021 (Statutes and Ordinances, p. 340) will be as follows:

Roman religion: identity and empire [associated with C2 of Part II of the Classical Tripos] (A)
The ‘Angevin Empire’, 1150s–1230s (B)
Memory in early modern England (C)
Uses of the visual in early modern Germany, c.1450–1550 (D)
The Palace and the Coffeehouse: The power of place in Ottoman history, 1300–1800 (E)
The culture of the miraculous in Renaissance Italy (G)
The 1848 Revolutions (I)
The British and the Ottoman Middle East, 1798–1850 (J)
Fin de siècle Russia, 1891–1917 (K)
The transformation of everyday life in Britain, 1945–1990 (L)
Empires and the American imagination, c.1763–c.1900 (M)
Central European cities: Budapest, Prague, Vienna, 1450–1914 (N)
Missionary science, ethnic formation, and the religious encounter in Belgian Congo (O)
Sources of East Asian modernity, c.1895–1927 (P)
Indian democracy: ideas in action, c.1947–2007 (Q)

The subjects for the following papers in Part II of the Historical Tripos, 2021 (Statutes and Ordinances, p. 340) will be:

1 Historical argument and practice
4 History of political thought from c.1700 to c.1890
5 Political philosophy and the history of political thought since c.1890
6 States between states: the history of international political thought from the Roman Empires to the early nineteenth century
7 Transformation of the Roman world [Paper C4 of Part II of the Classical Tripos]
8 The Near East in the age of Justinian and Muhammad, AD527–700
9 Slavery in the Greek and Roman worlds [Paper C3 of Part II of the Classical Tripos]
10 Living in Athens [Paper C1 of Part II of the Classical Tripos]
11 Early medicine [Paper BBS113 of NST Part II Biological and Biomedical Sciences]
12 The middle ages on film: medieval violence and modern identities
13 Man, nature and the supernatural, c.1000–c.1600
14 Material culture in the early modern world
15 The medieval globe [Paper A24 of Part II of the Archaeology Tripos]
16 Overseas expansion and British identities, 1585–1714
17 The politics of knowledge from the late Renaissance to the early Enlightenment
18 Japanese history [Paper J6 of Part I of the Asian and Middle Eastern Studies Tripos]
19 Women, gender and paid work in Britain since c.1850
20 World population, development and environment since 1750: comparative history and policy
21 Borderlands: life on the Habsburg-Ottoman frontier, 1521–1881
22 Stalinism and Soviet life
23 The long road to modernisation: Spain since 1808
24 The ‘rule of law’ in early modern Britain: state power, criminal justice and civil liberties, c.1500–c.1800
History and Politics Tripos, 2020: Amendment to variable subjects

Further to the Notice published on 5 June 2019 (Reporter, 6550, 2018–19, p. 653), the Faculty Board of History gives notice of an amendment to the variable subjects to be examined in Part II of the History and Politics Tripos in 2019–20, as follows:

Section C

By withdrawing the following from the list of History papers:

28. The history of the Indian sub-continent from the late eighteenth century to the present day

The Faculty Board is satisfied that no candidate’s preparation for examination will be adversely affected by this amendment.

Bioscience Enterprise for the M.Phil. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Bioscience Enterprise for the degree of Master of Philosophy (Statutes and Ordinances, p. 518) in the academic year 2019–20, and the form of examination of each module will be as shown below.

Science and Technology (ST) modules

<table>
<thead>
<tr>
<th>ST1</th>
<th>Treating disease</th>
<th>Coursework</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST2</td>
<td>Drug discovery I</td>
<td>Coursework</td>
</tr>
<tr>
<td>ST3</td>
<td>Drug discovery II</td>
<td>Coursework</td>
</tr>
<tr>
<td>ST4</td>
<td>Diagnostics and devices</td>
<td>Coursework</td>
</tr>
<tr>
<td>ST5</td>
<td>Agbiotech</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

Business (B) modules

| B1, B2, B3 | Management of technology and innovation | Coursework |
| B4 | Healthcare economics | Coursework |
| B5 | Law and intellectual property | Coursework |

Transitionary (T) modules

| T1 | Company analysis I: partnerships and alliances | Coursework |
| T2 | Company analysis II: finance and valuation | Coursework |
| T3 | Building a bioscience enterprise I | Coursework |
| T4 | Building a bioscience enterprise II | Coursework |

Joint assessments

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

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

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

All candidates are required to complete a dissertation of up to 10,000 words (Reference: E1) on a topic approved by the Degree Committee, and will give a presentation on the project work at a symposium (Reference: E2).
## Biotechnology for the M.Phil. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Biotechnology for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 518) in the academic year 2019–20 and the form of examination of each module will be as shown below.

The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

### Core modules

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPT</td>
<td>Principles of biotechnology (double module)</td>
<td>Coursework</td>
</tr>
<tr>
<td>BPC</td>
<td>Biotechnology practical course (double module)</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

### Elective modules (candidates must take six)

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>B3</td>
<td>Pharmaceutical engineering</td>
<td>Examination</td>
</tr>
<tr>
<td>C1</td>
<td>Optical microscopy</td>
<td>Examination</td>
</tr>
<tr>
<td>C3</td>
<td>Healthcare biotechnology</td>
<td>Examination</td>
</tr>
<tr>
<td>C6</td>
<td>Biosensors and bioelectronics</td>
<td>Coursework</td>
</tr>
<tr>
<td>C7</td>
<td>Bionanotechnology</td>
<td>Examination</td>
</tr>
<tr>
<td>C8</td>
<td>Biophysics (techniques)</td>
<td>Examination</td>
</tr>
<tr>
<td>BX1</td>
<td>Chemical biology and drug discovery</td>
<td>Coursework</td>
</tr>
<tr>
<td>BX2</td>
<td>Biomaterials</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>4G1</td>
<td>Mathematical biology of the cell</td>
<td>Coursework</td>
</tr>
<tr>
<td>4G3</td>
<td>Computational neuroscience</td>
<td>Coursework</td>
</tr>
<tr>
<td>4G4</td>
<td>Biomimetics</td>
<td>Coursework</td>
</tr>
<tr>
<td>4G6</td>
<td>Cellular and molecular biomechanics</td>
<td>Examination</td>
</tr>
<tr>
<td>SB</td>
<td>Systems biology</td>
<td>Examination</td>
</tr>
<tr>
<td>4E1</td>
<td>Innovation and strategic management of intellectual property</td>
<td>Coursework</td>
</tr>
<tr>
<td>4E4</td>
<td>Management of technology</td>
<td>Coursework</td>
</tr>
<tr>
<td>4E5</td>
<td>International business</td>
<td>Coursework</td>
</tr>
<tr>
<td>4I8</td>
<td>Medical physics</td>
<td>Examination</td>
</tr>
</tbody>
</table>

### Research

All candidates are required to complete an individual project report of up to 7,000 words (reference: BIRP) and to complete a team project assessed by a report of up to 7,000 words (reference: BGRP).

## Energy Technologies for the M.Phil. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Energy Technologies for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 525) in the academic year 2019–20, and the form of examination of each module, will be as shown below.

The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

### Core courses (compulsory)

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETA1</td>
<td>Energy topics</td>
<td>Coursework</td>
</tr>
<tr>
<td>ETA2</td>
<td>Revision of fundamentals</td>
<td>Coursework</td>
</tr>
<tr>
<td>ETB1</td>
<td>Clean fossil fuels</td>
<td>Coursework</td>
</tr>
<tr>
<td>ETB2</td>
<td>Renewables 1: wind, wave, tidal and hydro</td>
<td>Coursework</td>
</tr>
<tr>
<td>ETB3</td>
<td>Renewables 2: solar and biofuels</td>
<td>Coursework</td>
</tr>
<tr>
<td>ETB4</td>
<td>Energy systems and efficiency</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

### Electives

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4A2</td>
<td>Computational fluid dynamics</td>
<td>Coursework</td>
</tr>
<tr>
<td>4A3</td>
<td>Turbomachinery I</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>4A4</td>
<td>Aircraft stability and control</td>
<td>Coursework</td>
</tr>
<tr>
<td>4A7</td>
<td>Aerodynamics</td>
<td>Coursework</td>
</tr>
<tr>
<td>4A9</td>
<td>Molecular thermodynamics</td>
<td>Examination</td>
</tr>
<tr>
<td>4A10</td>
<td>Flow instability</td>
<td>Examination</td>
</tr>
<tr>
<td>4A12</td>
<td>Turbulence and vortex dynamics</td>
<td>Examination</td>
</tr>
<tr>
<td>4A13</td>
<td>Combustion and IC engines</td>
<td>Examination</td>
</tr>
<tr>
<td>4B19</td>
<td>Renewable electrical power</td>
<td>Examination</td>
</tr>
<tr>
<td>4B21</td>
<td>Analogue integrated circuits</td>
<td>Examination</td>
</tr>
<tr>
<td>4C7</td>
<td>Random and non-linear vibrations</td>
<td>Coursework and examination</td>
</tr>
</tbody>
</table>
Research requirements

Each candidate must submit a thesis of up to 20,000 words on a subject approved by the Degree Committee.

Engineering for Sustainable Development for the M.Phil. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Engineering for Sustainable Development for the degree of Master of Philosophy (Statutes and Ordinances, p. 525) in the academic year 2019–20 and the form of examination of each module will be as shown below.

The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

Inner core modules (mandatory)

Teaching to take place in Michaelmas Term 2019

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Course Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD150</td>
<td>Organisational change, values and negotiation</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

Teaching to take place in Lent Term 2020

- ESD200 Sustainability methods and metrics Coursework
- ESDCCP Client consultancy project Coursework

Outer core modules (candidates must take at least two)

Teaching to take place in Michaelmas Term 2019

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Course Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD450</td>
<td>Policy, legislation and government</td>
<td>Coursework</td>
</tr>
<tr>
<td>ESD650</td>
<td>International development</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

Teaching to take place in Lent Term 2020

- ESD360 Resilience and hazard mitigation in future cities Coursework
- ESD560 Innovations in sustainable manufacturing Coursework

Elective modules

Teaching to take place in Michaelmas Term 2019

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Course Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4B19</td>
<td>Renewable electrical power</td>
<td>Examination</td>
</tr>
<tr>
<td>4D13</td>
<td>Architectural engineering</td>
<td>Coursework</td>
</tr>
<tr>
<td>4D16</td>
<td>Construction engineering</td>
<td>Examination</td>
</tr>
<tr>
<td>4E4</td>
<td>Management of technology</td>
<td>Coursework</td>
</tr>
<tr>
<td>4E6</td>
<td>Accounting and finance</td>
<td>Coursework</td>
</tr>
<tr>
<td>4M19</td>
<td>Advanced building physics</td>
<td>Coursework</td>
</tr>
<tr>
<td>4M22</td>
<td>Climate change mitigation</td>
<td>Coursework</td>
</tr>
<tr>
<td>TP1</td>
<td>Technology policy: concepts and frameworks</td>
<td>Coursework</td>
</tr>
<tr>
<td>TPE23</td>
<td>Negotiation skills</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

1 Two modules can be selected from the outer core as elective modules.
2 All written examinations are of one and a half hours’ duration unless otherwise specified.
Research requirements

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

Industrial Systems, Manufacture and Management for the M.Phil. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Industrial Systems, Manufacture and Management for the degree of Master of Philosophy (Statutes and Ordinances, p. 532) in the academic year 2019–20, and the form of examination of each module, will be as shown below. The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

Taught modules (all compulsory)

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISMM1</td>
<td>Manufacturing processes</td>
<td>Coursework</td>
</tr>
<tr>
<td>ISMM2</td>
<td>Operations and supply chain management</td>
<td>Coursework</td>
</tr>
<tr>
<td>ISMM3</td>
<td>Data and modelling</td>
<td>Coursework</td>
</tr>
<tr>
<td>ISMM4</td>
<td>Marketing and new business development</td>
<td>Coursework</td>
</tr>
<tr>
<td>ISMM5</td>
<td>Research methods</td>
<td>Coursework</td>
</tr>
<tr>
<td>4E1</td>
<td>Innovation and strategic management of intellectual property</td>
<td>Coursework</td>
</tr>
<tr>
<td>4E4</td>
<td>Management of technology</td>
<td>Coursework</td>
</tr>
<tr>
<td>4E5</td>
<td>International business</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

Projects (all compulsory)

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR1</td>
<td>Industrial project 1</td>
<td>Coursework</td>
</tr>
<tr>
<td>PR2</td>
<td>Industrial project 2</td>
<td>Coursework</td>
</tr>
<tr>
<td>PR3</td>
<td>Entrepreneurship project</td>
<td>Coursework</td>
</tr>
<tr>
<td>PR4</td>
<td>Industrial project 3</td>
<td>Coursework</td>
</tr>
<tr>
<td>PR5</td>
<td>Combined essay</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

Research requirement

All candidates must submit a thesis of not more than 15,000 words on a subject approved by the Degree Committee.
Machine Learning and Machine Intelligence for the M.Phil. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Machine Learning and Machine Intelligence for the degree of Master of Philosophy (Statutes and Ordinances, p. 534) in the academic year 2019–20 and the form of examination of each module will be as shown below.

The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

Core modules

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Name</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLM1</td>
<td>Introduction to machine learning (three-quarters)</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>MLM2</td>
<td>Speech recognition</td>
<td>Coursework</td>
</tr>
<tr>
<td>MLM4</td>
<td>Advanced machine learning</td>
<td>Coursework</td>
</tr>
<tr>
<td>MLM6</td>
<td>Information theoretic ideas in statistical inference (half)</td>
<td>Coursework</td>
</tr>
<tr>
<td>MLM7</td>
<td>Reinforcement learning and decision making</td>
<td>Coursework</td>
</tr>
<tr>
<td>MLM11</td>
<td>Designing intelligence interactive systems (half)</td>
<td>Coursework</td>
</tr>
<tr>
<td>MLM12</td>
<td>Computer vision (optional)</td>
<td>Coursework</td>
</tr>
<tr>
<td>MLM13</td>
<td>Natural language processing (optional)</td>
<td>Coursework</td>
</tr>
<tr>
<td>4F10</td>
<td>Deep learning and structured data</td>
<td>Examination</td>
</tr>
<tr>
<td>4F13</td>
<td>Probabilistic machine learning</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

Elective modules (candidates must take one)

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Name</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>4F1</td>
<td>Control system design</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>4F2</td>
<td>Robust and nonlinear systems and control</td>
<td>Examination</td>
</tr>
<tr>
<td>4F3</td>
<td>An optimisation based approach to control</td>
<td>Examination</td>
</tr>
<tr>
<td>4F5</td>
<td>Advanced communications and coding</td>
<td>Examination</td>
</tr>
<tr>
<td>4F7</td>
<td>Digital filters and spectrum estimation</td>
<td>Examination</td>
</tr>
<tr>
<td>4F8</td>
<td>Image processing and image coding</td>
<td>Examination</td>
</tr>
<tr>
<td>4F14</td>
<td>Computer systems</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>4G3</td>
<td>Computational neuroscience</td>
<td>Coursework</td>
</tr>
<tr>
<td>4M17</td>
<td>Practical optimisation</td>
<td>Coursework</td>
</tr>
<tr>
<td>4M20</td>
<td>Robotics</td>
<td>Coursework</td>
</tr>
<tr>
<td>4M21</td>
<td>Software engineering and design</td>
<td>Examination</td>
</tr>
<tr>
<td>L18</td>
<td>Automated reasoning</td>
<td>Coursework</td>
</tr>
<tr>
<td>L95</td>
<td>Introduction to natural language syntax and parsing</td>
<td>Coursework</td>
</tr>
<tr>
<td>R222</td>
<td>Advanced topics in natural language processing</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

Note that not all of the core modules are equally weighted. This is indicated above in the module names.

Research

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

Nuclear Energy for the M.Phil. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Nuclear Energy for the degree of Master of Philosophy (Statutes and Ordinances, p. 538) in the academic year 2019–20 and the form of examination of each module will be as shown below.

The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

Compulsory core modules

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Name</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>NE1</td>
<td>Reactor physics</td>
<td>Examination</td>
</tr>
<tr>
<td>NE2</td>
<td>Reactor engineering and thermal-hydraulics (double)</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>NE5</td>
<td>Nuclear safety principles and practice (half)</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>NE6</td>
<td>Nuclear policy</td>
<td>Coursework</td>
</tr>
<tr>
<td>NE7</td>
<td>Nuclear practice (half)</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

Other core modules (candidates must take at least one)

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Name</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>NE3</td>
<td>Materials for nuclear energy</td>
<td>Examination</td>
</tr>
<tr>
<td>NE4</td>
<td>Fuel cycle, waste and decommissioning</td>
<td>Examination</td>
</tr>
<tr>
<td>NE8</td>
<td>Computational reactor modelling</td>
<td>Coursework</td>
</tr>
<tr>
<td>NE9</td>
<td>Advanced fission and fusion reactor systems</td>
<td>Coursework</td>
</tr>
</tbody>
</table>
Elective modules

4A2 Computational fluid dynamics Coursework
4A3 Turbomachinary I Coursework and examination
4B19 Renewable electrical power Examination
4C4 Design methods Examination
4C5 Design case studies Coursework
4D7 Concrete structures Coursework and examination
4D10 Structural steelwork Coursework and examination
4E4 Management of technology Coursework
4E5 International business Coursework
4E6 Accounting and finance Coursework
4E11 Strategic management Coursework
4F1 Control system design Coursework and examination
4F2 Robust and nonlinear systems and control Examination
4F12 Computer vision Examination
4I7 Electricity and environment Coursework
4I8 Medical physics Examination
4M15 Sustainable energy Coursework and examination
4M17 Practical optimisation Coursework
4M18 Present and future energy systems Examination
ESD560 Innovations in sustainable manufacturing Coursework
B6 Fluid mechanics and the environment Examination
TP1 Technology policy Coursework
TP2 Economic foundations of technology policy Coursework
TP4 Business, government and technology in emerging markets Coursework
TP5 Policy design and evaluation Coursework
TPE20 Management of the innovation process Coursework
TPE21 Entrepreneurial science and innovation policy Coursework
TPE23 Negotiation skills Coursework
TPE24 Competitive strategy in the digital age Coursework
ESD150 Driving change towards sustainability Coursework
M3 Extraction and recycling Examination
M15 Corrosion and protection Examination
M16 Atomistic materials modelling Examination
M21 Steels Examination
PNP Particle and nuclear physics/comp physics Examination

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

Research

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

Future Infrastructure and Built Environment for the M.Res. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Future Infrastructure and Built Environment for the degree of Master of Research (Statutes and Ordinances, p. 548) in the academic year 2019–20, and the form of examination of each module, will be as shown below.

The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

Core modules (all compulsory)

CM1 Civil engineering theory Coursework
CM2 Civil engineering research methods Coursework
CM3 Multi-disciplinarity in civil engineering Coursework
ETech Introduction to entrepreneurship Coursework
Elective modules (two to be chosen in consultation with the Course Director)

4C6 Advanced linear vibrations Coursework and examination
4C7 Random and non-linear vibrations Coursework and examination
4C9 Continuum mechanics Examination
4D4 Construction engineering Coursework
4D5 Foundation engineering Coursework and examination
4D6 Dynamics in civil engineering Coursework and examination
4D7 Concrete structures Coursework and examination
4D9 Offshore geotechnical engineering Examination
4D10 Structural steelwork Coursework and examination
4D13 Architectural engineering Coursework
4F8 Image processing and image coding Examination
4F12 Computer vision Examination
4G4 Biomimetics Coursework
4M12 Partial differential equations and variational methods Examination
4M16 Nuclear power engineering Examination
4M17 Practical optimisation Coursework
4M19 Advanced building physics Coursework
4M20 Robotics Coursework
4M22 Climate change mitigation Coursework
5R5 Advanced experimental methods in geomechanics Coursework
5R7 Advanced numerical methods in geomechanics Coursework
5R14 Nonlinear solid mechanics Coursework
5R19 Earthquake engineering Coursework
EP10 Climate change policy and land development Examination

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

Future Propulsion and Power for the M.Res. Degree, 2019–20
The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Future Propulsion and Power for the degree of Master of Research (formerly Gas Turbine Aerodynamics, Statutes and Ordinances, p. 549) in the academic year 2019–20, and the form of examination of each module, will be as shown below.

Core modules
FPP1 Advanced propulsion and power dynamics Examination
FPP2 Turbomachinery aerodynamic design process Coursework
FPP3 Experimental methods Coursework
FPP4 Researcher skills Coursework

Elective modules
4A2 Computational fluid dynamics Coursework
4A3 Turbomachinery I Coursework and examination
4A4 Aircraft stability and control Coursework
4A7 Aerodynamics and design Coursework
4A9 Molecular thermodynamics Examination
4B19 Renewable electrical power Examination
4E4 Management of technology Coursework
4E6 Accounting and finance Coursework
4F1 Control system design Coursework and examination
4F13 Probabilistic machine learning Coursework
4M17 Practical optimisation Coursework
4I7 Electricity and environment Coursework
Research
All candidates are required to complete three mini-projects:

MP1 Combustion system aerodynamics
MP2 Compressor performance
MP3 Internal flows and combustor-turbine interaction

All candidates are furthermore required to complete three industry courses:

IC1 Holistic gas turbine design
IC2 Hands-on gas turbine training
IC3 Dyson product design

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

Graphene Technology for the M.Res. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Graphene Technology for the degree of Master of Research (Statutes and Ordinances, p. 549) in the academic year 2019–20, and the form of examination of each module, will be as shown below.

The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

Core modules (all compulsory)

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Title</th>
<th>Form of Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRM1</td>
<td>Science of graphene, related layered materials and hybrid systems</td>
<td>Examination</td>
</tr>
<tr>
<td>GRM2</td>
<td>Technology of graphene, related layered materials and hybrid systems</td>
<td>Examination</td>
</tr>
<tr>
<td>GRM3</td>
<td>Flexible and stretchable electronics</td>
<td>Examination</td>
</tr>
<tr>
<td>4B26</td>
<td>Advanced devices for high frequency electronics and biosensing</td>
<td>Examination</td>
</tr>
<tr>
<td>NT01</td>
<td>Characterisation techniques</td>
<td>Examination</td>
</tr>
<tr>
<td>NT04</td>
<td>Nanofabrication techniques</td>
<td>Examination</td>
</tr>
</tbody>
</table>

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

The Degree Committee for the Faculty of Engineering may issue amendments to the above lists during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

Connected Electronic and Photonic Systems for the M.Res. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Connected Electronic and Photonic Systems for the degree of Master of Research (formerly Integrated Photonic and Electronic Systems, Statutes and Ordinances, p. 550) in the academic year 2019–20, and the form of examination of each module, will be as shown below.

The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

Electronic components and systems

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Title</th>
<th>Form of Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>4B13</td>
<td>Electronic sensors and instrumentation</td>
<td>Examination</td>
</tr>
<tr>
<td>4B24</td>
<td>Radio frequency systems</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>4B25</td>
<td>Embedded systems for the internet of things</td>
<td>Coursework</td>
</tr>
<tr>
<td>UCLRFC</td>
<td>RF circuits and systems</td>
<td>Coursework and examination</td>
</tr>
</tbody>
</table>

Photonic components and systems

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Title</th>
<th>Form of Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>4B11</td>
<td>Photonic systems</td>
<td>Examination</td>
</tr>
<tr>
<td>4B23</td>
<td>Optical fibre communication</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>UCLAPD</td>
<td>Advanced photonic devices</td>
<td>Examination</td>
</tr>
<tr>
<td>UCLOTN</td>
<td>Optical transmission and networks</td>
<td>Examination</td>
</tr>
<tr>
<td>UCLPSS</td>
<td>Photonic sub-systems</td>
<td>Examination</td>
</tr>
</tbody>
</table>

Business

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Title</th>
<th>Form of Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>4E4</td>
<td>Management of technology</td>
<td>Coursework</td>
</tr>
<tr>
<td>UCLTBE</td>
<td>Telecommunication business environment</td>
<td>Coursework</td>
</tr>
</tbody>
</table>
### Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4B5</td>
<td>Nanotechnology</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>4B21</td>
<td>Analogue integrated circuits</td>
<td>Examination</td>
</tr>
<tr>
<td>4B26</td>
<td>Advanced devices for high frequency electronics and biosensing</td>
<td>Examination</td>
</tr>
<tr>
<td>GRM3</td>
<td>Flexible and stretchable electronics</td>
<td>Examination</td>
</tr>
<tr>
<td>4F5</td>
<td>Advanced information theory and coding</td>
<td>Examination</td>
</tr>
<tr>
<td>4F12</td>
<td>Computer vision</td>
<td>Examination</td>
</tr>
<tr>
<td>UCLAML</td>
<td>Applied machinery learning</td>
<td>Coursework</td>
</tr>
<tr>
<td>UCLBCL</td>
<td>Broadband communications lab</td>
<td>Coursework</td>
</tr>
<tr>
<td>UCLBTC</td>
<td>Broadband technologies and components</td>
<td>Examination</td>
</tr>
<tr>
<td>UCLEC3</td>
<td>Electronic circuits 3</td>
<td>Coursework</td>
</tr>
<tr>
<td>UCLIOT</td>
<td>Internet of things</td>
<td>Coursework</td>
</tr>
<tr>
<td>UCLPON</td>
<td>Physics and optics of nano-structure</td>
<td>Coursework and examination</td>
</tr>
<tr>
<td>UCLSNS</td>
<td>Software for network services and design</td>
<td>Coursework</td>
</tr>
</tbody>
</table>

The modules beginning ‘UCL’ are provided and examined by University College, London.

### Research

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

### Sensor Technologies and Applications for the M.Res. Degree, 2019–20

The Degree Committee for the Faculty of Engineering gives notice that the modules available to candidates studying the one-year course in Sensor Technologies and Applications for the degree of Master of Research (Statutes and Ordinances, p. 551) in the academic year 2019–20, and the form of examination of each module, will be as shown below.

The Degree Committee for the Faculty of Engineering may issue amendments to the lists below during the Michaelmas Term 2019, provided that no candidate’s preparation for the examination will be affected by the change.

#### Core modules (all compulsory)

- STA1 Principles of sensing
- STA2 Guided sensor design project
- ETech Introduction to entrepreneurship

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

- BIOPR Biological physics (principles)
- 4B5 Nanotechnology
- 4B11 Photonic systems
- 4B13 Electronic sensors and instrumentation
- 4B21 Analogue integrated circuits
- 4B25 Embedded systems for the internet of things
- 4B26 Advanced devices for high frequency electronics and biosensing
- 4C3 Electrical and nano materials
- 4E12 Project management
- 4F8 Image processing and image coding
- 4F12 Computer vision
- 4F13 Probabilistic machine learning
- 4I8 Medical physics
- 4M20 Robotics
- 4M22 Climate change migration
- B5 Optical imaging and microscopy
- C6 Biosensors and bioelectronics
- C8 Biological physics (techniques)
- GRM3 Flexible and stretchable electronics
- IDP1 Atmospheric chemistry and global change
- MLMI4 Advanced machine learning
- NT01 Nanotechnology characterisation techniques
- NT08 Bionanotechnology
- R214 Biomedical information processing

### Research

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

Graces submitted to the Regent House on 24 July 2019

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. 105) will be deemed to have been approved at 4 p.m. on Friday, 2 August 2019.

1. That Dame Fiona Reynolds, Master of Emmanuel College, be appointed one of the Septemviri to serve from 1 October 2019 until 31 December 2020.¹

2. That notwithstanding Regulations 1(d) and 3 of the regulations for the nomination of members of the Council in class (e) (Statutes and Ordinances, p. 113), Dr Richard Anthony, JE, be appointed a member of the Nominating Committee from 5 August 2019 until 30 September 2020.²

3. That the recommendations in paragraph 8 of the First-stage Report of the Council, dated 12 June 2019, on the construction of the National Centre for Propulsion and Power and re-development of the Whittle Laboratory (Reporter, 6551, 2018–19, p. 684) be approved.³

4. That the recommendations in paragraph 13 of the Joint Report of the Council and the General Board, dated 17 June and 5 June 2019, on the governance of matters for postgraduate and graduate students (Reporter, 6553, 2018–19, p. 726), as amended by the Council’s Notice dated 22 July 2019 (p. 841) be approved.

5. That the organisational structure of student representation on Faculty Boards and other bodies be amended, as outlined in the General Board’s Notice dated 22 July 2019 (p. 846).

6. That, on the recommendation of the General Board, the period in which the General Board is required to act under Special Ordinance C (vii) B. 18(a) in respect of the vacancy in the Professorship of Chemical Engineering be extended until 31 October 2021 or until such earlier date as the Board shall determine after consultation with the Council of the School of Technology and the Chemical Engineering and Biotechnology Syndicate.⁴

7. That in Regulation 9(a) of the regulations for Residence and Precincts of the University (Statutes and Ordinances, p. 175) the text in parentheses be amended to read ‘(having followed a one-year course of study prescribed by Ordinance)’.⁵

8. That Regulations 1, 2, 4, 5 and 7 of the regulations for the El-Erian Fund for Economics (Statutes and Ordinances, p. 829) be revised to read as follows:⁶

   1. The funds received from the Board of Cambridge in America representing a benefaction from Mohamed El-Erian together with such other sums as may be received or allocated for the same purpose, shall form a Fund called the El-Erian Fund for Economics and Policy.

   2. The Managers shall be responsible for the administration of the Fund and the application of its expendable capital and income and shall comprise:

      (a) the Head of the School of the Humanities and Social Science or a duly appointed deputy (who shall be Chair);

      (b) another member of the School of the Humanities and Social Sciences, appointed by the Council of the School for such period as the Council of the School shall determine;

¹ This appointment is being proposed to fill a casual vacancy.
² There is an unexpected vacancy in the external membership of the Council from 1 January 2020. The process to identify a candidate to serve as an external Council member will start over the summer, so that a Grace making a nomination can be published in the Michaelmas Term 2019. The approval of Grace 3 of 10 July 2019 has enabled the current membership to remain in place once a search for a candidate has commenced. There are two unfilled vacancies in class (d) of the Nominating Committee (members of the Senate elected by the Regent House) from 1 October 2019 following two elections and Professor Dame Carol Black, whose term ends on 30 September 2019, is planning to step down on 31 July 2019. It is therefore proposed that Dr Richard Anthony be appointed to one of the vacancies in class (d). An election to fill the remaining vacancy will be held in the Michaelmas Term 2019.
³ See the Council’s Notice, p. 840.
⁴ Statutes and Ordinances, p. 718. See the General Board’s Notice on p. 849.
⁵ The Council is proposing this change to reflect the changes made to the Regulations for the degree of Master of Business Administration with effect from 1 October 2017 (Reporter, 6475, 2016–17, p. 783).
⁶ The Council, on the recommendation of the Council of the School of the Humanities and Social Sciences and with the support of the donor, is proposing these changes to amend the title of the Fund and the Professorship to reflect more closely the research conducted in the El-Erian Institute of Human Behaviour and Economic Policy, amend the membership to include a second member of the School, and to place the El-Erian Institute under the auspices of the School.
(c) the El-Erian Professor (or, in the event the Professorship is vacant, another individual appointed by the Vice-Chancellor for such period as the Vice-Chancellor shall determine);

(d) a member appointed by the Governing Body of Queens’ College for such period as the Governing Body of Queens’ College shall determine; and

(e) an external member appointed by the Vice-Chancellor for such period as the Vice-Chancellor shall determine.

4. Subject to the arrangements specified by Cambridge in America at the time of receipt for the period ending on 15 August 2019 the income from the permanent endowment of the Fund shall be used to support research into human behaviour and economic policy through:

(a) the payment of the stipend, national insurance, pension contributions, and associated indirect costs of an El-Erian Professorship of Behavioural Economics and Policy by the University and funding for the research activities of the Professor as determined by the Managers;

(b) a distribution of 4.95% of the income from the permanent endowment of the Fund to Queens’ College in each financial year in support of a linked Fellowship for the holder of the Professorship (or, in the event that the Fellowship is vacant, an equivalent payment to the College in support of teaching in economics); and

(c) a distribution of 45.45% of the income from the permanent endowment of the Fund to Queens’ College in each financial year in support of Studentships for doctoral research students in the School of the Humanities and Social Sciences, to be administered by the Governing Body of Queens’ College.

5. The income and (if the Managers think fit) the capital of the Fund not held as permanent endowment shall be used as follows:

(a) the funds so specified by Cambridge in America at the time of receipt shall be used for the support of research in human behaviour and economic policy through the foundation of an El-Erian Institute of Human Behaviour and Economic Policy which may include the funding of research, postdoctoral research fellowships and doctoral studentships, visitor programmes, and conferences and the support of research in human behaviour and economic policy in such manner as the Managers shall determine, provided that, if the Managers are satisfied that surplus funds are available, such surplus may be applied as an accretion to the funds held in accordance with Regulation 4(a); and

(b) the funds so specified by Cambridge in America at the time of receipt shall be distributed to Queens’ College for the support of outreach activities for the El-Erian Institute of Human Behaviour and Economic Policy which may include the funding of research, postdoctoral research fellowships and doctoral studentships, visitor programmes and conferences, and the support of research in human behaviour and economic policy in such manner as Queens’ College shall determine.

7. The El-Erian Professor shall be elected in accordance with Special Ordinance C (vii) B.1(c)(iii), provided that, on the occasion of an election to the Professorship, the General Board shall invite the Governing Body of Queens’ College to nominate a representative to receive papers and to attend meetings relating to the election, including the meeting of the Board of Electors as a nonvoting observer.

9. That Regulation 2(c) of the regulations for the Clive Parry International Law Prize Fund (Statutes and Ordinances, p. 926) be deleted.7

10. That Regulation 3 of the regulations for the Ver Heyden de Lancey Fund (Statutes and Ordinances, p. 999) be amended to read as follows:8

3. The income of the Fund may be used, at the discretion of the Managers, to promote medico-legal studies in the University in memory of the Baron Ver Heyden de Lancey. Permitted expenditure shall include providing public lectures on medico-legal subjects (to be known as Baron de Lancey Lectures), providing scholarships or prizes (to be known as Baron de Lancey Scholarships or Prizes), and making grants (to be known as Baron de Lancey Grants) in the area of medico-legal studies within the University of Cambridge.

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7 The Council, on the recommendation of the General Board and the Faculty Board of Law, is proposing the removal of a prize for graduates from outside the British Isles with a linguistic disadvantage, which was established before the introduction of language tests for admission and is therefore now rarely awarded. The income will continue to be applied to the two remaining Prizes supported by the Fund.

8 The Council, on the recommendation of the General Board and the Faculty Board of Law and with the support of the donor, is proposing these changes under Statute E I 8 to enable scholarships, prizes and grants to be awarded from the surplus income of the Fund.
11. That in the following regulations, the reference to the Pro-Vice-Chancellor (Planning and Resources) be amended to refer to the Pro-Vice-Chancellor with responsibility for planning:*

   Regulation 1 of the regulations for the Joint Committee on Development (*Statutes and Ordinances*, p. 132)
   Regulation 2 of the regulations for the Vice-Chancellor’s Endowment Fund (*Statutes and Ordinances*, p. 1000)

* The Council is proposing these changes to revise outdated references.

ACTA

Approval of Graces submitted to the Regent House on 10 July 2019

The Graces submitted to the Regent House on 10 July 2019 (*Reporter*, 6555, 2018–19, p. 808) were approved at 4 p.m. on Friday, 19 July 2019.

Congregation of the Regent House on 19 July 2019

A Congregation of the Regent House was held at 10 a.m. All the Graces that were submitted to the Regent House (*Reporter*, 6556, 2018–19, p. 828) were approved.

The following degrees were conferred:

*This content has been removed as it contains personal information.*
Congregation of the Regent House on 20 July 2019

A Congregation of the Regent House was held at 10 a.m. All the Graces that were submitted to the Regent House (Reporter, 6556, 2018–19, p. 829) were approved.

The following degrees were conferred:

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This content has been removed as it contains personal information.

E. M. C. RAMPTON, Registrar

END OF THE OFFICIAL PART OF THE ‘REPORTER’
COLLEGE NOTICES

Elections

Fitzwilliam College
Elected as Master of Fitzwilliam with effect from 1 October 2019:
Baroness Morgan of Huyton (Sally), M.A., Cambridge

Elected to a Fellowship in Class A, with effect from 1 October 2019:
Christelle Abadie, D.Phil., Oxford
Jean-Michelle Johnston, B.A., D.Phil., M.St., Oxford
Stevie Martin, B.A., L.L.B., Griffith Australia, L.L.M., TH
Céline Vidal, B.Sc., M.Sc., École Supérieure de Chimie de Lille, Ph.D., Paris-Sorbonne
Sarah Kolopp, M.A., École des Hautes Études en Sciences Sociales, Ph.D., École normale supérieure de Paris
Olenka Pevny, M.A., Ph.D., New York

Elected to a Research Fellowship in Class C, with effect from 1 October 2019:
Cléo Chassonnerie-Zaïgouche, M.A., Ph.D., Paris-Sorbonne

Elected to a Fellowship in Class E, with effect from 1 October 2019:
Kenneth Platt, M.A., Ph.D., JE
Nicola Padfield, M.A., Oxford, D.E.S., Aix-Marseille

Elected as an 1869 Fellow Benefactor:
Lady Olisa (Julia), B.Ed., N, M.A., London

Vacancies

Christ’s College: Stipendiary Junior Research Fellowship in a specified area of Arts, Humanities and Social Sciences; tenure: four years, non-renewable; closing date: 24 October 2019 at 12 noon; further details: http://www.christs.cam.ac.uk/jrf

Jesus College: Research Fellowships in Arts (two posts) and Science (one post); tenure: three years, fixed term, as from 1 October 2020; salary: starting from £22,017, plus subsidised housing and meals; closing date: 27 August 2019; further details: http://www.jesus.cam.ac.uk/fellows-staff/vacancies/ (details and online application form available from 29 July 2019)

Queens’ College: Junior Research Fellowships in Geography, in English, and in any subject (the latter open to Queens’ members only); to commence on 1 October 2020; stipend: starting at £22,659 plus benefits; closing date: 16 September 2019 at 12 noon; further details: http://www.queens.cam.ac.uk/general-information/vacancies

Trinity Hall: Postdoctoral Research Associateships (up to ten posts); tenure: usually two years, as from October 2019, and co-terminous with postdoctoral employment; benefits: the normal privileges and facilities of the College that are available to graduate students, with certain limited exceptions; a small annual fee is payable; closing date: 2 September 2019; further details: http://www.trinhall.cam.ac.uk/about/vacancies

Awards and Prizes

Queens’ College: A list of distinctions and prizes awarded for the 2018–19 academic year is available on the Queens’ College website at https://www.queens.cam.ac.uk/teaching-learning/distinctions-awards/college-prizes-and-awards-prizes-2019

Memorial Services

Trinity College
Memorial Service for Sir Michael Atiyah
A Memorial Service will be held for Sir Michael Atiyah, Fellow of Trinity College (see Reporter, 6539, 2018–19, p. 426), in the College Chapel on Saturday, 26 October 2019 at 2.30 p.m. Anyone wishing to attend is asked to register at: https://www.trin.cam.ac.uk/events/memorial-service-for-Sir-Michael-Atiyah/

EXTERNAL NOTICES

Oxford Notices

Las Casas Institute, Blackfriars Hall: Junior Research Fellow in Economics as a Moral Science (part-time); tenure: from 15 January 2020; salary: £27,383 pro rata (0.5 FTE); closing date: 5 September 2019 at 12 noon; further details: https://www.bfriars.ox.ac.uk/community-life/vacancies/

Christ Church: The thirteenth annual Andrew Chamblin Memorial Concert will be given by Mr David Titterington HonFRCO HonRAM at 8 p.m. on 19 September 2019, in Christ Church Cathedral, Oxford, and will feature organ works by Bach, Muffat, Scheidemann, Wesley and Ritter; admission free, everyone welcome; no tickets required and no reserved seating; further information: https://www.chch.ox.ac.uk/events/cathedral/andrew-chamblin-concert-2019

Lady Margaret Hall: Director of Chapel Music (part-time); closing date: 5 August 2019 at 12 noon; further details: https://www.lmh.ox.ac.uk/about-lmh/jobs/director-chapel-music-part-time

Woolf Institute

Operations Assistant (part-time), supporting research and outreach at the institute; salary: £30,000–£35,000; closing date: 21 August 2019 at 11.59 p.m.; further details: https://www.woolf.cam.ac.uk/about/vacancies/operations-assistant

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