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THE MASTER’S LETTER

My fifth year as Master! Life rushes past, too fast …. But the academic year does offer a reassuring pattern – all of it busy, busy, busy, but with wonderful changes in emphasis. Term times seem more frenetic – loads of teaching and lecturing, endless College committees, and a frustrating number of fascinating events and dinners to attend. Frustrating because, as all students and former students know, great events often clash. Out of term, the meetings continue, fundraising takes a leading role, and it is essential to find convincing periods of time to focus on writing about criminal justice and to return to all those half-written articles.

In fact, the College and the University granted me eight, or was it nine, precious weeks sabbatical leave last year – I took the Lent Term 2017 ‘off’ to carry out an exploratory study of Parole Board decision-making (the reports of which can be found at http://ssrn.com/abstract=3081035 and http://ssrn.com/abstract=3081039). I was delighted to learn at the end of the year that I was to be appointed to a Professorship – and just as delighted for the two other successful applicants for Professorships from within the Fellowship, James Elliott and Bhaskar Vira. They have done brilliantly, combining academic success with a real commitment to the College (and they are very much younger than me!). James is Director of Studies in Natural Sciences, a Tutor, and Senior Treasurer of the Boat Club; and Bhaskar is Graduate Tutor and Director of Studies in Geography. Both are committed teachers, too, and have given (and continue to give) the College so much of their time, wisdom and goodwill. For many of the Fellows, of course, combining work for the College with a full-time job in the University is difficult. Many of us juggle University, College, research, and family with some difficulty. Perhaps I’m lucky, as there is the added stimulation of the comparisons between two of my working worlds – Fitzwilliam College, and the prison estate – endlessly fascinating, if not depressing (the prison estate, that is).

Fitzwilliam College, on the other hand, is a hugely privileged place and not a jot depressing. Our students are, generally, an amazingly talented lot. Are their results as good as they should be? This a difficult question to answer in relation both to graduates and to undergraduates. Clearly admitting the ‘right’ ones is as vital as encouraging and teaching them appropriately once they are here. Fitzwilliam achieved a record number of Firsts last year. Fantastic! The Master is privileged in that she can support a vast variety of student activities, intellectual as well as sporting and recreational. Last year’s highlights for me included David Cardwell’s Foundation Lecture: Bulk superconductors: revolution or red herring?. He entertained himself, the audience and me by ‘levitating’ me during the lecture. He’s another star: Head of the University’s Engineering Department, but still very visible in College.

In the year under review in this Journal (2016–2017), the In Conversation with the Master series remained popular. Discussing Land of my Fathers with Liberian-born novelist Vamba Sherif was intriguing; as was exploring the challenges of immigration with barrister David Chirico (the Senior Tutor’s brother) and solicitor Liz Barratt (1981, History). In another, I discussed Shostakovich’s musical legacy with Alan George, a founder member of the Fitzwilliam String Quartet (formed in Fitzwilliam College in Michaelmas Term, 1968), and Soviet music expert Professor Marina Frolova-Walker. The Quartet were invited by Shostakovich to premiere his last three quartets in the UK in the 1970s – what an opportunity. We had much great music in Fitzwilliam during the year. Pop-up Opera was founded by Clementine Lovell (2000, Archaeology & Anthropology) and their performance of Rossini’s Il Barbiere di Siviglia was extraordinarily fresh and brilliant. I hope they will become regulars.
We should also be proud of the Fitzwilliam team on University Challenge. Hugh Oxlade (2014, History), Jack Maloney (2014, Medicine), Theo Howe (2015, Japanese), and Theo Tindall (2015, Russian and Arabic) have been performing brilliantly on TV this year (well supported by reserve Rachel Bedwin (2016, Natural Sciences). On the sports field, Christopher and I really enjoyed the Varsity Athletics match. Maxine Meju (2014, Medicine) was the Women’s Captain, and the squad included an impressive eight Fitzwilliam athletes. Elsewhere in this journal, you can read of many other sporting successes.

All these activities, and the many others carefully recorded in this journal by Dr John Cleaver, help develop the ‘ethos’ of the College as a friendly, healthy, supportive, but intellectually exciting and demanding, place. Christopher still cooks a pile of pancakes for every undergraduate ‘freshers’, and we love our (healthier) tandem rides with students. Do you have other ideas of what we might offer?

Back to the serious business of running the College. I make no apologies for reminding alumni of our needs – fee income falls well short of the cost of educating our students, and providing them with both financial and pastoral support. Recent fundraising initiatives have been fantastic but we have a really modest endowment which cannot generate enough income to cover our necessary costs. We therefore remain more reliant than most Colleges on our conference income and on fundraising generally. We are proud of the new Lee Kuan Yew – Fitzwilliam Fund: a blueprint for the future?

Of the Fellows and staff who left last year I might single out Dr Sean Holly, who retired after more than twenty years as a Fellow, contributing not least as Dean and as President and Acting Master. Alison Carter left after a successful time as our Head of Communications (the editor of Optima and champion of all our publications); both Isobel Cohen as Deputy Development Director, and Katharine Parton as Director of Music left their marks even though they were here less time. Pía Spry-Marqués, Donna Thomas, and Cat Groom have filled their shoes.

What are my personal ambitions inside College for the next couple of years? To keep promoting our vision of Fitzwilliam, and to keep gentle pressure on the whole community to keep focused on the recruitment of students and the development of our teaching, learning and research environment (including our facilities). Nor will I ignore the fact that our diversity and access credentials are rightly under scrutiny. There is still plenty to do!

NICOLA PADFIELD

In conversation with the Master; the challenges of immigration, with David Chirico (a barrister specializing in immigration and asylum law) and Liz Barratt (joint head of the immigration team at Bindmans, solicitors)
Honorary Fellows, Patrons, and Fellow Benefactors

In March 2017, Ms Helen King QPM (2003, Applied Criminology & Police Management) was elected to an Honorary Fellowship. Her police career began as a graduate-entry Police Constable with the Cheshire Constabulary, and she retired as an Assistant Commissioner with the Metropolitan Police. Since April 2017 she has been Principal of St Anne’s College, Oxford, of which she is an alumna.

Honorary Fellow and alumn Dame Sarah Asplin DBE QC (1979, Law) has been appointed to the Court of Appeal. She had been a Justice of the High Court (Chancery Division) since October 2012.

Master and Fellows

In the annual round, there have been four promotions to senior academic posts, with effect from 1 October 2017: three to Professorships and one to a Readership. The Master, Nicola Padfield, was appointed Professor of Criminal and Penal Justice in the Faculty of Law; Dr Bhaskar Vira was appointed Professor of Political Economy in the Department of Geography; and Dr James Elliott was appointed Professor of Macromolecular Materials Science in the Department of Materials Science and Metallurgy. Dr Hilary Cremin, who was a Bye-Fellow of the College from 2013 to 2017, was appointed Reader in the Faculty of Education.

Dr Sean Holly, President of the College and Reader in Economics, retired at the end of September 2017. He had been a Fellow of the College for twenty-one years, and was elected to a Life Fellowship.

In succession to Dr Holly, Francis Knights was elected to the office of President. Recently, he has been elected Chairman of the National Early Music Association. To mark the 250th anniversary of the death of Georg Philipp Telemann (1681–1767), Francis organized a festival of Telemann’s music at Sidney Sussex College, at which he himself played the harpsichord.

It is good to see that the names of Fellows and Bye-Fellows of the College occur regularly for the annual CUSU Student-Led Teaching Awards, which are now in their fourth year and recognize outstanding teaching and student support. This year, Dr Susan Larsen, who is Director of Studies in Modern and Medieval Languages (and is Acting Senior Tutor whilst Dr Chirico is on sabbatical leave) was commended in the innovative teaching category for encouraging students to engage with their course outside the traditional curriculum. Dr Hero Chalmers, Director of Studies in English, was shortlisted for Pastoral support. Dr Gabriel Glickman, Director of Studies in History, was shortlisted in the Undergraduate Supervisor category; and Bye-Fellow Dr Matthew Neal, who teaches History, for Supporting Students.

Professor Nigel Slater has been appointed as the visiting Qiushi Chair Professor at Zhejiang University in Hangzhou for three years.

Dr Kourosh Saeb-Parsy and his colleagues have developed a new method for growing and transplanting artificial bile ducts that in future could be used to help treat liver disease in children, reducing the need for liver transplantation. In *Nature Medicine*, they reported a three-dimensional cellular structure, which, once transplanted into mice, developed into normal, functioning bile ducts.

Dr Stuart Middleton has received a Fulbright Award from the US–UK Fulbright Commission to carry out research at New York University, and is intermitting his Research Fellowship for a year. He will be undertaking intellectual-history research at New York University into the networks and debates that linked progressive intellectuals in Britain and America between the 1930s and the late 1950s, using archives across the United States.

Dr Christopher Cowie, who had been a Research Fellow since 2015, resigned his Fellowship in order to take up an Assistant Professorship in the Department of Philosophy of the University of Durham, from September 2017.

Dr Hazel Wilkinson, Research Fellow in English, has been appointed to a Fellowship and Lectureship in 18th-century Literature at the University of Birmingham. She is writing a history of an 18th-century printing house, and investigating how the book trade helped to formalize the study of the works of Renaissance poets and dramatists.

Tilman Flock, who has been a Research Fellow since 2016, received his PhD in October 2016.

Three new Research Fellows have been elected for October 2017. There was an extremely vigorous competition for the one stipendiary position, and David Winters was appointed. A short biography is on p.23. Also elected to Research Fellowships were Dr Cora Uhlemann and Dr Erik Gjesfjeld (p.24).
Visiting Fellows
In September a very unusual concert took place in the College Chapel, devised by Professor Pablo Padilla, who was visiting from the National University of Mexico. It presented nine world premieres of compositions based on different mathematical concepts and procedures (algorithmic, geometric, combinatorial) as applied to music. This was part of his project Formal Methods in Musicology in collaboration with Francis Knights and with Dr Dan Tidhar (Wolfson College), which is exploring mathematical, statistical, and computational techniques for the analysis of classical music.

Bye-Fellows
Dr Brendan Dyck, who was a Bye-Fellow in Earth Sciences for 2016–2017, has been appointed Assistant Professor in Petrology at the Department of Earth Sciences of Simon Fraser University in British Columbia, Canada. His research is on the processes of melting and magma solidification that take place deep below the Earth’s surface.

Katharine Parton, Director of Music, left the College at the end of her three-year term.

Albert Ventayol, Batista i Roca Fellow, has received a Fulbright Award from the US–Spain Fulbright Commission to undertake a PhD at the University of California, Santa Barbara. His research will focus on the description of under-documented Siberian languages in the Russian Federation; Siberia has many languages which are particularly in danger of extinction.

Dr Alice Evans has been appointed to a Lectureship at the Department of International Development at King’s College London.

Dr Andrew Hacket Pain, Geography Bye-Fellow since 2014, is now with the Department of Geography and Planning in the University of Liverpool. Andrew hosted a forest-modelling workshop in College during the year, as part of the PROFOUND Action Towards robust projections of European forests under climate change, in which he participates alongside 171 colleagues from across Europe and America. This Action is part of the European Cooperation in Science and Technology EU-funded programme for interdisciplinary research networks.

Dr James McNamara is now with the Victoria University of Wellington, New Zealand.

Junior Members
Ashton Brown (2014, currently undertaking a PhD), President of the Cambridge University Women’s Boat Club, led her crew to victory in the 2017 Cancer Research UK Women’s Boat Race on 2 April, beating Oxford by 11 lengths and in a record time of 18 minutes and 34 seconds.

Recent graduate Hannah Gillie (2014, Geography) was awarded first place in the Royal Geographical Society – Institute of British Geographers Food Geographies Undergraduate Dissertation Prize, for her dissertation Neighbourhood to Agrihood: Exploring the extent to which urban agriculture can support inclusive redevelopment in Detroit. Detroit, with its crisis of bankruptcy and decay, is the principal centre of urban agriculture in the United States, with mixed-use and allegedly sustainable development.

Two research students were awarded prizes in photographic competitions. Alexander Taylor (2014), who is working for a PhD in Social Anthropology, was awarded first prize in the Division of Anthropology’s graduate photography competition, for his Fieldwork in Data Centres photo submission.
Oliver Vanderpoorten is working for a PhD in the Engineering and Physical Sciences Research Council Centre for Doctoral Training in Sensor Technologies and Application, at the Department of Chemical Engineering and Biotechnology. He was awarded second prize in the EPSRC CDT photograph contest, for a fluorescence micrograph of *Caenorhabditis Elegans*. In this transparent roundworm, the BAG neurons are the smelling organs and potentially are affected by neurodegenerative proteins generated during neurological disorders such as Alzheimer’s disease; their degradation affects the strength of the fluorescence signal.

Law PhD student John Adenitire convened The Conscience Conference on the subject of exemptions for conscientious objectors in UK law, at the Institute of Criminology. It arose from his PhD project, in which he is analysing the laws of the USA, of Canada, and of the UK to see how these jurisdictions deal with individuals, usually religious, who object to complying with the law on the basis that it conflicts with their deep-seated beliefs. Support for the conference was received from the Fitzwilliam Graduate Tutors’ Fund and from the Centre for Public Law at the Faculty of Law.

Winnie Yeung (2016, MPhil in Pharmacology), one of the MCR Welfare Officers, organized a special Formal Hall in which blindfolded diners took turns experiencing what it is like to be visually impaired. They relied on the support of their dedicated carers, friends who took turns being sighted diners, to navigate the processes of eating without losing dining etiquette – finding food and cutting it into manageable pieces, and eating reasonably tidily, whilst making conversation without visual cues. As well as raising awareness, a donation was raised for CamSight, a local charity that supports people of all ages with sight-loss problems.

Another special Formal Hall had the theme of Fairtrade and Sustainability, to celebrate Fairtrade Fortnight and to increase awareness of the benefits of ethical consumption. Also, it celebrated Fitzwilliam College receiving the renewal of its Fairtrade certification – its first accreditation was in 2009.

Two Yehudi Menuhin awards have been made to Fitzwilliam students to mark the centenary of the birth of violinist and Honorary Fellow Yehudi Menuhin. The Yehudi Menuhin Prize was awarded to Hannah Roper (2013, Music), and the first Yehudi Menuhin Scholarship was awarded to Sam Franklin (2016, MPhil Clinical Science). The two awards mark the culmination of the Menuhin centenary events organized by Director of Music Katharine Parton. The Yehudi Menuhin Scholarship, for an outstanding string player, was established in March 2016 by a generous donation from alumnus Chris Wood (MML 1977).

A Blue Plaque that marks the house in Tanworth-in-Arden, Warwickshire, where singer-songwriter Nick Drake (1967, English) grew up was unveiled in June 2017 as part of BBC Music Day.
The Foundation Lecture

The Foundation Lecture for 2016 was given on 17 November by Professor David Cardwell, on Bulk superconductors: revolution or red herring? In the course of the lecture he levitated the Master on a superconducting levitating platform, showing how superconductors can be used to make a stable rotating platform with no frictional losses. The platform has two tracks of powerful rare-earth magnets underneath it, and these tracks are supported by over 30 superconducting bulk samples.

The Arrol Adam Fund

The lecture series on The Problem with Economics, which was organized by the President, Dr Sean Holly, began earlier in 2016. This year it continued with Dr Martin Weale CBE speaking on Britain’s economy from the banking crisis to Brexit; Dr Weale was a member of the Bank of England’s Monetary Policy Committee from 2010 to 2016. Larry Elliott (1974, History), the Economics Editor of The Guardian, spoke on How a failed economic system led to Brexit and President Donald Trump.

The Arrol Adam Lectures were set up in memory of William Arrol Adam, who read Chemistry at Fitzwilliam House in 1905 and died in 1939. It was the stated intention of the bequest, made in 1962 by his widow Jane Wylie Adam, to disseminate knowledge, promote discussion of issues of general interest and concern and to foster the use of plain and simple English.

In addition to the lectures, the Arrol Adam Fund supported the Foundation Essay competition, for which the winners of the 2017 Fiction Prize were Hugh Oxlade (2014, History) and Grayson Elorreaga (2015, Philosophy), and of the 2017 Poetry Prize were Grayson Elorreaga, Lucy Wan (2016, Mathematics), and Sam Fulton (2014, English).

Other News

Mr David Cattle, the College’s Chef de Partie, won bronze in the Campus Speed Cook Challenge organized by The University Caterers Organisation Ltd.
THE BURSAR’S NOTES

College Buildings

Through careful planning, the generous support of our donors, and the hard work and dedication of our staff, we have been able to keep the refurbishment programme on track for the fifth successive year. The programme will continue to place a heavy demand on College resources over the years to come; the College has set itself an internal policy that requires 50% of the cost of accommodation refurbishments, and 100% of the cost of other projects, to be met by donations. So far we have raised £4m in four years; to complete the programme by 2025 (over the next eight years) we will need to raise a further £13m.

Our focus in 2017 shifted back to the Central Building. The repair and improvement of the lantern roof of the Hall was never expected to be the most exciting project, but how wrong can one be! To begin, two 35-metre single-span beams had to be lifted into place onto four towers, erected on new foundations outside the building, by a crane situated in the Huntingdon Road car park. This was a spectacular moment, and somewhat terrifying, especially if watched from inside the Hall! The works, which involved repairs to the concrete pillars, stripping and replacing the...
roof covering, with provision of new walkways etc. and the installation of new fans to serve the Hall, took place unseen behind the scaffolding, so we were unprepared for the sight which greeted us when the finished product was unveiled. To come through the archway and see the iconic scalloped roof freshly painted against a blue September sky is to get a glimpse of how the first students of the College might have seen their newly-constructed buildings in the 1960s. It is an architectural masterpiece, as can be seen on the cover of the Journal. Being on top of the roof feels like being in a 21st-century world. Congratulations and thanks are due to our Maintenance Manager, Julian Eddy, who managed the project – which was completed a month ahead of schedule and well under budget. We are also really grateful to our professional team, including Cullinan Studio (architects), Edmond Shipway (contract managers), Roger Parker Associates (Environmental Services) and Peter Dann (structural engineers). Thanks must also go to our long-suffering and ever-patient gardens team, who once again saw Fellows Court used as an access and assembly area for building works, but who managed to restore the lawns to something like their former glory in time for the Reunion Weekend.

In 2018 our attention will shift to the MCR extension, for which funding has now been pledged, and which we hope to complete by the end of the year. This will provide a much-needed additional social space for our graduate community, which has grown at least four-fold since the present MCR facilities were established in the Grove.

Having completed the refurbishment of A, B and C staircases, we now need to provide the same treatment to D, E and F, which are looking increasingly tired alongside the newly-refurbished rooms. We have recently received planning permission for changes to the whole side of the College that faces Huntingdon Road. Even the first stage of this work will be a huge financial challenge – with an estimated cost of over £6m – so much of 2018 will be spent working at this challenge.

As if all this were not enough to be going on with, the opportunity came up in the spring to buy number 137 Huntingdon Road, a four-bedroomed house on a large plot immediately adjacent to our graduate house at number 139. Currently we are working on a proposal to develop new graduate accommodation on the site. The combined site has the potential to become our major centre for graduate accommodation, with over 100 students in three houses either side of the Huntingdon Road, ideally situated for the College.

With all the focus on major refurbishment we cannot neglect the rest of the College. Our bedrooms in New Court (Q, R, S, T), and Fellows’ Court (M, N) are being...
given a ‘birthday’ – redecorating and upgrading lighting and furniture where necessary – and the provision of new covered cycle storage behind A, B and C is also a significant improvement.

Anyone who has visited the College recently cannot fail to have noticed the damage to the lawns in New Court, which is being caused by crows digging for Chafer-beetle grubs, which live among the grass roots. In recent years a number of Colleges have suffered extensive damage to lawns in the autumn and through the winter when there is insufficient cold weather to kill the grubs. Fitzwilliam had not experienced this problem until two years ago, but now our resident gang of five crows are working their way methodically through New Court! Head Gardener Steve Kidger has been trying a policy of regarding the crows as the solution, not the problem, stripping back the turf in a neat and tidy way to allow the crows to clean up the exposed grubs before re-turfing. This makes the damage look less unsightly and assists the repair process, but no real solution has yet been found.

Finance and investments

The last two years have seen an unprecedented set of changes in the way our Accounts look to the outside world, and to our approach to managing the College’s investments. Last year we were grappling with the new Accounting Standard and with a new Depreciation policy. This year we have implemented a switch to a Total Return methodology for accounting for investment income and, of course, we have been busy establishing our new relationship with J.P. Morgan as investment managers. This all adds up to an extraordinary two years for the Finance function, and I would like to play particular tribute to Valter Monteiro, our hard-working Head of Finance who has done much of it single-handedly. We were very glad to welcome Victoria Cox into the new position of Management Accountant in August this year, which will be a huge help to Valter going forward.

Operational expenditure exceeded income in the financial year, resulting in a financial deficit of £184,000.
This was quite a bit better than we expected. The ‘surplus’ before charging depreciation was £1.36m, but the depreciation charge, which is a proxy for the amount of money we need to reinvest on average each year to maintain the value of the College’s assets, was £1.55m. The resulting deficit reflects the reality that the College remains dependent upon donations to finance its essential refurbishment programme.

Of course 2016–2017 was a particularly heavy year for capital expenditure, with the completion of the refurbishment of normal B and C staircases.

It was a good year for investments and donations and, as a result, we have seen the endowment grow by £4.5m to £58.5m over the year. Of this increase, £3.6m resulted from market growth and £0.9m from new donations, including a grant of £293,000 from the Colleges’ Fund, a mechanism whereby the better-off Colleges support the poorer Colleges. Fitzwilliam has long been a beneficiary of this Fund, which has contributed over £12m to Fitzwilliam’s endowment since we became a College; we have every reason to be grateful to our colleagues around Cambridge for this support.

The year 2016–2017 has been the first of J.P. Morgan’s management of the College investments, and the discretionary portfolio saw a return of 9.9% compared with the College’s long term strategic objective of 7.2% (RPI +4%). At the year-end £1.6m out of the £37.3m under J.P. Morgan Management was invested in Private Equity type investments.

I am proud to report that the amount of money allocated to student support at over £600,000, was once again at record levels. This includes the University’s contribution to the Cambridge Bursary Scheme, but the commitment of College funds alone is equivalent to 13% of the College’s income from student fees. Most of this has been made possible by the generosity of our alumni. However we have a way to go yet. The Cambridge Bursary scheme is one of the most generous among the top Universities in the country, and the costs are borne 50:50 by the University and the Colleges. Historically Fitzwilliam has been shielded from the full effect of this by the support of the Isaac Newton Trust, but the Trust has now redirected its funding and, as a result, the College is committed to bear the full 50% of the cost by

**Total Return Accounting**

Under the College’s previous accounting policy, all income from investments – rents, dividends and interest – is taken to the income and expense account, and changes in market value are retained with the investments. The College’s dependence on income has driven our investment strategy towards income-earning investments, as opposed to those focused on capital growth. With the decision to switch investment manager this year came a deliberate move towards a long-term investment strategy focused on capital growth, rather than income. Taken on its own, this would have created an income problem.

The Total Return Accounting approach takes into account both income AND capital growth (the total return), allowing the College to withdraw, in lieu of income, a proportion of the capital value of the portfolio each year, provided that sufficient ‘Unapplied Total Return’ (the sum total of all historic market gains and of income that has not been spent) is available. The annual withdrawal is regulated by a ‘spending rule’ which seeks to ensure that the amount withdrawn each year is sustainable over the long term.

This move has been strongly endorsed by external members of the Investment Advisory Committee. It is widely used within the Charity sector and by the majority of Cambridge Colleges.
2019–2020. We need to find another £50,000 per annum to meet this target. This will not be the end of the story, as efforts continue across Cambridge to address the negative perception of student debt, and to ensure that no student is prevented by funding worries from benefitting fully from the experience of Cambridge.

Staff

As ever, we have said farewell and welcome to quite few members of staff during the year. We give great thanks to Alison Carter and Rajashree Dhanaraj, respectively Head of Communications and Head of the Tutorial Office, who have moved on to new challenges. Emma Hilditch has joined us in the new role of Events Manager, and Claire Claydon has resumed oversight of the Tutorial Office, with some reorganisation to enable her to do this alongside her existing role assisting the Senior Tutor. It has also been a huge pleasure to recognise a number of long-service achievements during the year; we have two members of staff (Michael Page and Martin Barham) who have served over 30 years, and four more who have served over 20 years.

I would like to take this opportunity to express my gratitude for the enormously important work undertaken by our HR Officer, Sarah Rowland-Jones. Much of her work is ‘below the parapet’, providing a friendly and supportive ear to all staff, acting as a conduit for serious issues to be raised, providing guidance and support to line managers as they steer that difficult course between standards, respect, fairness, and commerciality, and ensuring that we adhere to best practice at all times in our management of staff. Sarah has that difficult role of being trusted confidante to all parties at all levels; she plays it brilliantly and I am extremely grateful to her for all the support she has given and continues to give to me and all my colleagues.

This year we broke new ground for the College by conducting our first formal staff survey. This is common practice in larger organisations but not yet a regular feature in the Colleges. We did so with some trepidation, conscious of the expectations that will be raised and unsure of the outcome. In the event we had a 73% response rate, which is very high. Overall the responses were very positive, emphasising that for most people the College is a happy and rewarding place to work; the survey was also really helpful in identifying areas to work on. I presented the results at the annual staff meeting in September, and we have now been able to undertake a detailed review at departmental level, creating action plans that will enable the staff to hold us accountable! We intend to run the survey in two years’ time, and thereafter for it to become a routine part of our staff management system.

I am delighted that staff photos are included in the Journal this year (pp.28–29), and very much hope that this will be a regular feature in future. The people pictured represent more than 140 permanent and temporary staff who play a central role in the life of the College community, helping make sure that the College runs smoothly in all its functions.

Compliance

The compliance workload, which affects all departments in the College, continues to rise. We live in a world in which Government increasingly outsources regulatory work to the regulated organisations, and expects them to bear the – not inconsiderable – cost. Most regulation has its origins in sound principles, which we would support; the challenge is that by the time the high-level direction has passed through several layers of administrators, the regulation has often become impractical and bureaucratic, imposing obligations that add little value. Worse, the process becomes self-defeating as adherence to procedures takes precedence over managing the substance of the risk. Colleges in organisational terms are ‘small and medium-sized enterprises’, yet for many purposes we have been deemed to be ‘Public Authorities’, which requires compliance with regulations intended for substantial organisations. Thus we are subject to the Freedom of Information Act which takes many hours of staff time answering ill-formed and ill-considered enquiries, and the ‘Carbon Reduction Commitment’ which applies a tax on the College which is not borne by private-sector competitors in the student-accommodation sector.

Our approach always is to try to use the positive aspect of regulation to improve our overall management systems, but there is no denying that it adds cost in terms of money and stress on the staff. The lack of clear and timely guidance from the authorities adds to the problem because regulated sectors are then forced to adopt the most cautious interpretations of the rules, which leads to over-engineering and a risk-averse culture. The big challenge for 2018 will be the General Data Protection Regulation (GDPR), which goes live on 25 May. Although it looks as though the threatened impact on alumni communications has been averted by a late amendment to the Bill in the House of Lords, the preparation required to comply with the guidance as we currently understand it is going to take a considerable effort in the early part of the year.

In conclusion

Looking back at last year’s Notes, I conclude that 2017 was a year of steady progress in all the main areas overseen by the Bursary. I would like to extend my thanks to all the staff, Fellows and students who have worked so hard and achieved so much in the year, especially Andy Milne, Domestic Bursar, and all the departmental heads who make a great team.

I would also like to say a word of thanks to the Presidents and Officers of the JCR and MCR. It is easy to overlook the huge role they play in ensuring that that Fitzwilliam community is just that. Every two weeks during term time the Domestic Bursar and I meet with the Presidents. We review the big issues before the College Committees and work to resolve the small matters that – if unattended to – can result in unnecessary frustrations. The positive and constructive roles played by the student representatives are a central part of what makes Fitzwilliam the friendly, progressive and supportive place that it is. Thank-you to all those who have served in 2017!

ANDREW POWELL
FITZWILLIAM HISTORY

The first half-century of the Debating Society

The Debating Society is the oldest non-sporting society associated with Fitzwilliam (that is, unless one considers Debating to be a blood sport). It goes way back beyond the Fitzwilliam name, to a time shortly after the Non-Collegiate Student era began.

Non-Collegiate students were first admitted by the University in October 1869, after extensive controversy and opposition from the colleges, but initially no provision was made for them – the long-standing self-help tradition of Fitzwilliam emerged from necessity. The Non-Collegiate Students Board first rented three and then four rooms on the first floor of 31 Trumpington Street in the Lent term of 1874; one was assigned as a Common Room and Reading Room for the students (of whom, there were nearly one hundred). A Newspaper and Magazine Club was established, a termly subscription of 1s 6d providing sixteen publications ranging from The Times and The Daily Telegraph to Punch and The Field.

Because of the publication in 1874 of a little booklet entitled NON-COLLEGIATE – MEMORANDA, we have detailed information about the constitutions and committee members of the Common Room, the Debating Society, and the sports clubs. The early non-collegiate students were obsessed with the formulation of rules, even referring to them as laws. Those for the Debating Society were the most numerous, but the Cricket Club was concerned with fines for losing balls (3s 0d) and the Boat Club with lateness for an outing (1s 0d) and absence (2s 0d). To put these sums in perspective, academical dress (cap and gown) cost about £1 11s 0d, a building craftsman earned about 4s 5d per day, and a pint of mild ale cost about 2½d.

The Debating Society held its first meeting on Saturday 10 May 1874 at 8 pm, and the following rules were agreed:

1. That this Society be called the NON-COLLEGIATE DEBATING SOCIETY.
2. That the affairs of the Society shall be managed by a Standing Committee, consisting of a President, a Vice-President, a Secretary, and two other Members.
3. A General Meeting shall be called at the commencement of each Term for the purpose of electing the Standing Committee for the ensuing Term.
4. Three Members of the Standing Committee shall form a quorum, one of whom shall be the President or Vice-President.
5. That the subscription to become a Member of the Society be One Shilling per Term.
6. The President shall have unlimited authority on every question of Order, and shall be the sole interpreter of the Laws, subject to an appeal to the Standing Committee.

7. If the President shall be absent from any discussion, or shall leave the chair for the purpose of speaking on any subject, a Member of the Committee who has not spoken shall take his place and be invested with all his functions during the remainder of the discussion of that subject.

8. The President shall have power, on an emergency, to change the time appointed for any Meeting, by giving three days’ notice, or less if necessary.

9. The President shall have only a casting vote.

10. Meetings shall be held on every Saturday Evening. In the Michaelmas Term not before the 21st of October, and not after the 8th of December, at 7 PM. In the Lent Term between the last Saturday in January and last Saturday but one in Term inclusive, at 7 PM. In the Easter Term between second Saturday in Term and first Saturday in June inclusive, at 8 PM. The room will be always closed at 10 PM.

11. The Debate may be upon any subject not strictly Theological.

12. Any Member may propose a subject for debate. The first ten minutes of every Meeting shall be devoted to receiving subjects for the next Debate, that subject which has the greatest number of votes to be selected.

13. If no subject for debate be offered it shall be incumbent on the Committee to provide one.

14. The subject for the ensuing Debate shall be placed on the Notice Board on the Monday following the previous Debate.

15. Any Member who shall neglect to open the subject of debate of which he has given notice, shall (unless he provide a substitute) be fined 2s 6d.

16. If the Debate be not opened within ten minutes of the President taking the chair, the opener shall be fined 2s 6d.

17. Any Member may place his name on the Notice Board as opposer of the motion, and shall then be entitled to speak next after the opener.

18. In the event of more than one Member offering himself as opposer, preference will be given to the first name placed on the Notice Board.

19. If the opposer of the motion shall neglect to speak next after the opener, he shall (unless he provide a substitute) be fined 2s 6d.

20. If a Debate be adjourned, the mover of the adjournment shall (unless he provide a substitute) re-open the Debate on the night to which it may have been adjourned, under a penalty of 2s 6d.

21. Any Member may record his vote for or against the original question, in a book provided for that purpose, one hour after the commencement of the Debate.

22. No Member shall be allowed to vote unless he has paid his subscription.

23. No Member shall be allowed to vote by proxy.

24. Persons eligible to become Members of the Society are permitted to attend the first two Debates only of each Term, and must be introduced by a Member.

25. Visitors shall be permitted to attend any of the Debates upon the introduction of a Member. The name of the visitor and the introducer shall be entered in a book provided for that purpose.

26. None but Members shall be permitted to take any part in or vote on the Debate.

27. Each Member introducing a stranger shall be held responsible for the behaviour of the visitor during the period of his visit.

28. There shall be a limited time of twenty minutes each for the opener and opposer of a subject of debate, and of ten minutes for other speakers; which times may be lengthened at the discretion of the President.

29. In the event of two or more Members rising simultaneously, the President shall decide upon the first speaker.

30. No Member shall be allowed to speak twice on the same subject, unless by way of explanation, except the opener of the motion, who alone shall be allowed to reply.

31. If after the expiration of fifteen minutes from the time announced for the commencement of the Debate less than six members be present, the President shall adjourn the Debate.

32. Any Member who has not paid his subscription by the second Debate of the Term shall be excluded from all Debates until his subscription be paid.

33. The President shall have the power of imposing a fine not exceeding one guinea (£1 1s 0d) on any Member guilty of disturbance or insubordination, and at his discretion of requiring him immediately to withdraw from the Meeting, provided three-fourths of the Members present are favourable to the expulsion.

34. That no rule can be altered or modified without the votes of two-thirds of the Members present at the General Meeting.

The very first debates were on topics that were to be highly recurrent: The Lock-out in the Eastern Counties (in the early days of the National Agricultural Labourers Union); The Admission of women to University Degrees, and Church and State. ***

The Non-Collegiate Students Board purchased the entire Trumpington Street building in 1887 and, due to its location immediately opposite the Fitzwilliam Museum, the name Fitzwilliam Hall was adopted – initially as an identity for the sports clubs but spreading generally but informally for the entire Non-Collegiate body. The name Fitzwilliam appeared officially in University Statutes and Ordinances for the first time in 1924, as Fitzwilliam House.

The Fitzwilliam Hall Magazine was established in 1908, as part of the effort of William Fiddian Reddaway (the fourth Censor of Non-Collegiate Students, from 1907 to 1924) to enhance the corporate spirit of Fitzwilliam Hall. It is very clear that at that time the Debating Society was central – or at least was intended by Reddaway to be central – to the corporate existence of the members of the Hall, as the reports of its activities appear in the Editorial section at the start of every issue of the Magazine, rather than being towards the back amongst the sports clubs.
So the very first issue of the Magazine, in May 1908, discussed the optimizing of schedules for concerts and debates—whether weekly or fortnightly—noting that attendance was as high as the club room could accommodate. It reported that perhaps the keenest debates were those on Socialism, Disestablishment, and the regulation of the Liquor Traffic. None of the others however can be said to have fallen flat, and the session wound up with a topic which left openings for light treatment and many humorous sallies: that this house views with grave misgivings the further development of the art of aerial navigation.

Topics such as Liquor Traffic were of particular relevance to Fitzwilliam Hall members, since a substantial proportion of them had aspirations to become clergymen. Six months later another hardy perennial topic appeared.

H.W. Malden moved and R.L. Hussey seconded the resolution that this House would welcome the extension of the suffrage to women.

In the next debate, the common problem of the unambiguous drafting of motions arose.

W. Harvey, supported by A.O.N. Lee, moved: that in the opinion of this House the cult of athletics is carried to excess in this country. [...] Ambiguity in the interpretation of the resolution caused not a few to appear at the division of the House as voting on the side against which they seemed to be arguing. This however did not detract from the liveliness of the meeting.

All went well into 1909, with good attendance and numerous speeches, and very serious topics were raised—albeit with diverse outcomes.

The House was convinced by W.W. Elliott (opposed by W.S. Thatcher) that state intervention in the interests of Labour is being carried too far. It has emphatically rejected the President’s resolution (opposed by the Censor) that the over-sea possessions of the United Kingdom are a source of weakness rather than of strength. It followed the lead of A.G. Chapple (opposed by A.E. Hill) in declaring that war is an anachronism.

Neither Chapple nor Hill was to be a combatant in the Great War. Lighter topics were not neglected—whether novel-reading is carried to excess in this country—and R.L. Hussey held up hands of holy horror, bewailing the growing tendency to extravagance among undergraduates. The Musical Secretary (and indeed most of those present) opposed the motion, and local confectioners were saved from disaster.

Even in serious debates speakers could be confused.

National-security topics were frequently to the fore, in that era when Britain and Germany were engaged in a race to build Dreadnought-class battleships and bellicosity was being instilled by the propaganda of Lord Northcliffe’s newspapers.

The question of Conscription was thrashed out [...]. F. Thatcher seemed to be in complete agreement with Mr Blatchford and the Daily Mail; but A.E. Hill denounced, with his usual vigour, ‘these hare-brained scare-mongers who will not let us sleep soundly in our beds’.

The motion for conscription was carried by two votes.

The Debates Committee were evidently frightened out of their wits by the Invasion Scare, as, despite the [...] Conscription Debate a few weeks earlier, it asked the House [...] to decide whether the anxiety with regard to German naval preparations was exaggerated or no. Germany had a representative present to put forward her point of view [there were a few German students at that time]. [...] The alarmists achieved another victory—by one vote.
The other major political issue of the era – indeed, of the previous half-century – was that of Home Rule for Ireland, and in 1911 the Debating Society declared itself opposed to granting complete autonomy to Ireland, after listening to Irish eloquence on each side of the case.

There was an increased local interest in military matters, with rapidly-growing enthusiasm for the Officers Training Corps, and this competed with the Debating Society for the time of members.

we were promised a debate on the Influence of the Press on English Life and Thought, but numerous other attractions, such as Night Operations, took away most of our debaters, and in the end it was decided to adjourn the discussion sine die.

In a later debate W.H. Stokes asserted That Patriotism, as popularly conceived, is more of a vice than a virtue, and W.A.L. Kerridge volunteered to disagree with him. None of the speeches made were exceptionally brilliant, though some of the derivations ascribed to the word ‘patriotism’ undoubtedly were. The voting revealed a majority for the motion.

Perhaps ironically, it was Stokes who was to be killed in the war, in Flanders in April 1918 during a major and initially successful German attack, whilst Kerridge came through, although wounded. In the last few months before the War the pattern of topics persisted, for instance with Female Suffrage, the future of Turkey, and wages policy.

***

When the War started, the number of men in residence fell rapidly, and initially societies and sports were abandoned. But determination built up to maintain as much as possible of normality, so in the Easter term of 1916

The last debate of the term was led by the Censor and Mr Bell. The motion was That in the opinion of this House the War will be followed by an era of great prosperity. The Censor was in magnificent form, and his opponents had very little look-in anywhere.

In the last term of the War, Michaelmas 1918, there were three meetings of the Society, one on the Censorship of the Press, but another on the perennial problem of women

Mr Cook maintained that women ought to be admitted to full membership of the University. Mr Harrison insisted that a woman’s place was in her home, but omitted to say what she was to do if she hadn’t got one. Mr Hoare thought it undesirable that we should have women members of Parliament. Mr Khadye proposed that we should have women parsons (but) Mr Fendick thought we had got on very well without them in the past. Mr Cook contended that our churches would be full of eager listeners to hear the fair preacher.

Mr Inamdar pointed out that the words should enter into the head and not the heart.

The post-War student numbers grew rapidly, as combatants returned to complete their interrupted studies and those who initially had missed their opportunities arrived (facilitated by grants for servicemen, by relaxed academic admission requirements, and by having the requirement of nine terms residence for a degree reduced to six. Thus in the spring of 1919

With an average attendance of 26, the Debating Society may almost claim to have returned to normal. The term’s programme was opened by a formidable array of statistics produced by Mr Fendick to prove his case against the nationalisation of railways. His figures, even to three places of decimals, went unchallenged, but in spite of all, the House declared in favour of Mr Harrison and nationalisation.

Subsequently, the members were sufficiently optimistic as to be persuaded that the League of Nations would solve international problems.

In the early 1920s the Society decided by a fair majority against Prohibition and, presumably, adjourned next door to the public house The Little Rose (now the Loch Fyne restaurant). Not all topics were so close to the hearts of audiences, however, and by 1929 it was reported in the Magazine that ‘We can only assume that the Society is still in existence’. So it continued, for nearly a century more, with a sequence of revivals followed by fadings-away. Recently there have been a few good years, and it is to be hoped that the present embodiment of the Debating Society will be sustained and it will match the successes of the best of the earlier times.

DR JOHN CLEAVER, Senior Treasurer of the Debating Society

Fitzwilliam: the first 150 years of a Cambridge College
An extensively-illustrated account, published in 2013, is available from the Porters’ Lodge or from the Development Office via the Alumni web page.
As I write, in the beautifully quiet Olisa Library – it is nearly Christmas, so most people have gone home – all is also extremely quiet in most of the 100+ libraries across the University. It is especially quiet because the whole University Library Management System has been shut down to prepare all data for transfer to a new system that will be available in January.

A Library Management System is a series of databases programmed to work together to give meaningful information. Files of information in the most basic system would include book records (bibliographic data), and user records (patron data). These two relational databases together produce borrowing records (circulation data). Enhancements would include purchasing records, supplier information, subscription services, accounts, and budgeting; these would be categorised as acquisitions data and are essential for budgetary and financial planning, and reporting. Additionally – and most importantly for effective use – each of these databases and functions needs to have a search facility so that items, records or information can be interrogated, identified, located, and retrieved. A Library Management System allows us to garner past information and use it for planning purposes, as well as showing us amongst other things, which resources we have, which is the most requested item, who has borrowed the most books, and so much more.

It has been known for some years that the Voyager/Newton system, which was adopted in 2001 and adapted for the complex structure of Cambridge University’s many libraries, would not last forever. The vast amount of bibliographic data meant that Newton needed to be held in eight separate databases. This also meant a significant amount of duplication (especially as regards college-held items) and that represented a rapidly growing data-storage issue. In the years that we have had Voyager/Newton, while all our collections have grown there have been rapid technological developments and greater possibilities for information management, retrieval, provision and storage.

The Cambridge Libraries Connect LMS Replacement Programme was set up early in 2015 to identify the University’s requirements for a new LMS, to investigate all the possibilities, and to begin discussions with possible providers. It was an initiative of the University Librarian, managed by the UL, but with a Lead who is a College Librarian. A great many of the senior members of the project team either had been in Cambridge a good while, had been involved with the Newton/Voyager project and/or had professional or technical insight to bring vision to the project. Professional project managers were appointed and they were excellent at keeping random groups of librarians focused on specifics and on target for each meeting. They managed up to twelve separate groups of stakeholders from a variety of libraries to ensure that the greatest involvement would provide the best model to show our requirements of the new system. I was one of several College Librarians invited to take part, and I joined the Acquisitions group as a voice from outside the University Financial System to ensure that the new LMS would work with the requirements of individual college accounting systems. We met several times, each time going further with the details that we expected to see in the new system, identifying things that were essential, desirable, or deal-breakers – and all the time being guided by the project managers and by our terms of reference. Our requirements and those of all the working groups were published to vendors who then came and demonstrated, went away with feedback, and returned later to show how they could further meet our needs. I have never before been involved with project management on such a large scale: it was a complex, detailed, thrilling and eye-opening experience. The provider was selected in April 2016 and now we are on the brink of complete implementation.

First to be provided was the public interface, iDiscover, in September 2016. The iDiscover information sheet explains that it provides students, researchers and staff with a unified experience of library services across the University that is accessed from a single interface. It provides a single tool to search and explore library materials across all of the collections of the University, bringing together print and digital publications, articles, newspapers, web resources (both subscription and free), and content from the University repository, Apollo.

Soon we will have access to all our bibliographic records through Alma, a web-hosted repository that shows all Cambridge records tidily and cleverly de-duplicated, as well as tens of thousands of new records that can be imported once an item has been purchased, and details of millions of electronic resources. We will know so much more about so many more resources: some will allow access free of charge; some will have already been purchased by agreement and many will be available to purchase, using the records of our suppliers, our own fund management information and University or bespoke accounting systems.

For the time being we wait, and hope that – after all the work put in by so many people, from so many different aspects of library work, with so many needs to be met – all will be well. And by the time you are reading this, the new system will be up and running, at least a couple of months old. Librarians will be working out how to amend their processes and practices to get the best out of it and I hope thinking brightly about the future with Alma. It will give us such a management tool that really will enhance the access to information sources, improve the scope of services provided and allow information professionals to offer more support to our users, their education, discoveries and achievements.

All this is such a far cry from where I started in libraries, using the Browne issue system (remember the card tickets and pockets with your name on?), working for the county library service, in a tiny village library (sadly, it no longer exists) where I was the sole member of staff, more than 30 years ago!! Thank goodness, I am able to keep up with the times and the technology – thanks to the support of helpful, experienced, dedicated staff working away behind the scenes – to make sure the systems we use are effective, efficient, robust, and fit for purpose.
Recent donors to the Library

On behalf of our users, we would like to thank our donors for their generosity and thoughtfulness. Names in **bold** indicate donors who are authors or co-authors of the donated works.

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Alumni, current students, and friends of the College
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Regular and series contributions
Special mentions and thanks are due to Professor Anthony Cross, to Dr Kasia Boddy, and to Peter Bates for their regular contributions which allow our collection to develop in interesting directions.

CHRISTINE ROBERTSLEWIS, Librarian, December 2017
Life in the Chapel follows not just the tide of the academic terms, but the ebb and flow of the natural seasons, when we can gaze out of the glorious chapel window on the changing vesture of the tree. In the autumn the leaves turn golden and brown, and fall – often swept into the chapel and up the stairs by the tunnelling breeze. Winter allows a clearer view, and the spotting of wildlife, particularly squirrels gathering supplies. In spring it lifts our spirits to see the budding of the tree, alluding to the green canopy which will be received when the sun shines.

So with the diary of College life. Some events are as regular as the seasons, and each year something different takes shape according to some awe-some talent among the newest members of the College.

One of the delights in Chapel is the music from our Chapel Choir. The Choir and the Chaplain travelled this year for our bi-annual visit to St Edmund Hall in Oxford, our sister college. This relationship is strengthened yearly by our sharing song and supper in contrasting surroundings, as joint choirs squeezed into the ancient chapel of St Edmund Hall (c.1686). We look forward to their return visit to Fitzwilliam in February 2018. The choir was also honoured to sing at Great St Mary’s again this year, at the University Sermon preached by Fitzwilliam alumnus Revd Professor Ben Quash, of Kings’ College London.

As always, we said farewell to a number of our students. Our thanks go to our Sacristan this year, Felicity Parker. She has subsequently transferred into the role of Chapel Clerk upon the departure of Hugh Oxlade. His unassuming demeanour belied a vast general knowledge and a lively wit, displayed respectively on his appearance in the television series University Challenge as Fitzwilliam team captain, and his legendary stand-up routines in the College bar! His wise and loyal participation in the Chapel Advisory Group has been a great asset. We wish him well.

Senior Organist Amalie Fisher (2016, MMus) and Choir Conductor Richard Bateman (2013) have been a strong team in leadership. We were sorry to see them step down, as their scholarships came to an end. We are grateful to them for all their work in the Chapel Choir, their sense of fun and fellowship, and their contributions to the wider music of the College. Richard is perhaps better known for his performances on drums with jazz ensemble The Handlers, still appearing at many social events around College and University. Amalie graduated this summer. Amalie was our Assistant Organist as a first-year student when I joined the College in 2014. Seeing through my first cohort of students is a salutary experience, as well as a joy and privilege. Nevertheless it is a reminder of the pace of time passing for young people relative to my own.

We encourage a variety of worship in our ecumenical Chapel. In the Lent term we held a Tuesday Worship night in conjunction with Kingsgate Community Church. With a talented band of singers and musicians we welcomed a joint party of undergraduates for contemporary worship. Our own Jazz Eucharist continues as a regular occasion in the Michaelmas term which attracts the largest congregation of the year, other than the Advent Carols by Candlelight – although I never judge Chapel on numbers! We are also aware of the needs of many students in the College from different faith backgrounds, and this year prayer space was offered in the chapel crypt for our Muslim students, a particular requirement during Ramadan during fasting when travel to prayer further afield is difficult. However, it is available to members of any faith all year round – the Chapel welcomes all members of College.

Our programme of preaching during the year has been on the consecutive themes: Christianity among other faiths; Hope; and, latterly, New Life in the Easter Term. We were delighted to welcome a host of distinguished guest preachers.

We were especially honoured to have former College Chaplain Revd Canon Vanessa Herrick, Rector of Wimborne Minster and the Northern Villages, who gave the address at the annual Thanksgiving Service for the Commemoration of Benefactors. Although we cannot claim all the credit, she has since been installed as Archdeacon of Harlow in the Diocese of Chelmsford at a service in Chelmsford Cathedral on 23 September 2017. We offer our congratulations and very best wishes for her future ministry there.

The College was saddened this year at the death of Dennis Doyle, long-time supporter and benefactor of the Chapel. He attended Sunday evening services in the Chapel regularly, when his own choir singing at his local church in Shelford would allow. The College Choir sang two of his own compositions at a Memorial Service held in his honour in the Chapel on Saturday 25 February 2017. The organ voluntary and hymn were also composed by Dennis, a talented and generous musician. We have lost a great friend, but he will always be in our material memory through his kind donations of the Processional Cross and the Choir robes.

To end on a joyous note, on 29 July we celebrated the marriage of alumna Vanessa Cain and her fiancé Joshua Tait (photograph, p.76). The bride stayed in her old room in College the night before the wedding, and therefore the bridal procession – with father and eight bridesmaids – commenced at staircase M! It was a memorable occasion and an honour for the College Chapel to host their special day. Our best wishes go to them for all their future health and happiness.

REVD HELEN ARNOLD, Chaplain

The Chapel Choir

For the Chapel Choir, 2016–2017 was a terrific year of growth: literally, in terms of its membership, which settled at a total of 19 regular singers, the largest number for several years. At a spiritual level, our long-standing commitment to challenging repertoire that furthers the development of the singers, allied to the desire to create an environment less intense than some of the myriad other choirs in Cambridge, led this year to one of the most cohesive and mutually supportive groups with which I have ever had the pleasure to be involved, whose musical output was consistently of the highest calibre.

The year’s annual curtain-raiser, the College Reunion Weekend, enabled us to showcase arrangements of tunes by Aretha Franklin and Frank Sinatra, both of veritably iconoclastic secular modernity for us! The latter’s Old Devil Moon we dedicated to the Master.

More familiar ground was maintained with the rhythm of weekly Sunday services in term-time, focusing primarily on the great works of the Anglican choral canon. Making good on the College motto, however, we also commissioned a new Fitzwilliam Service by Sarah Cattley, one of our sopranos. It received its premiere at the service sung by Upper Voices (sopranos and altos) in Lent term, an occasion enhanced both
by the beauty of the new music and the positive emotion the Choir brought to its first public outing.

In addition to the regular highlight of the annual Carol Service, further innovation was to be found in the final week of residence in Michaelmas term, when the Choir gave a series of Christmas Cracker concerts. The first, in Chapel, was to an audience of over 40 people which brought together the whole gamut of college life, from Undergraduate to Staff and Fellowship. A performance for 200 University staff at Greenwich House followed the next day, and a performance at St Giles’ Church on the Friday rounded off a terrific week. Those events, allied to door-to-door carolling – and a glorious triumph at the pub quiz at the Carpenter’s Arms on Victoria Road – meant that the Choir’s combined direct and indirect efforts over the course of that week raised over £300 towards the charity Wintercomfort for the Homeless.

Lent term was very busy, with the Choir providing the music for a service at St Giles’ – a link which grows annually ever stronger – and for the University Sermon at Great St Mary’s. We were delighted to be welcomed at our sister college in Oxford, St Edmund Hall, for a truly memorable Evensong and even more memorable formal hall afterwards. We also enjoyed a new service of Lenten reflection at the end of Lent term; the memory of the performance of James Whitbourn’s Were you There? that day gives this author shivers even now.

A more sombre engagement came about as a result of the death, in January, of Dennis Doyle; throughout his long life a great supporter of the Choir, both financially and spiritually. The tangible results of that support are visible whenever the Choir sings, in the cassocks and surplices funded through his beneficence in 2014. His memorial service, at which we sang two pieces composed by Dennis for the Choir, and heard an Organ Voluntary also composed by him, was a truly uplifting celebration of one of the nicest people one could ever wish to meet.

Easter began with the Choir contributing to the events of Commemoration Weekend, and ended with an emotionally charged Leavers’ Service, which saw the departure of six singers, and marked the formal end of the terms of office both of myself and of Amalie Fisher, organist here since 2013 and Senior Organist since 2015. The Choir has benefitted beyond measure from her precocious talent, deep knowledge of choral music, and from her remarkably sensitive responses to the people and situations the life of the Chapel demands. Hers is the prime recent example among many of the immense benefit that the many students who come to the Choir from other Colleges add to the life of the Chapel and Fitzwilliam as a whole.

As ever, we enjoyed welcoming former members back to sing and socialize with us this academic year. We are immensely proud of the lasting links we have to our alumni. Fitzwilliam Choir has always felt like a big family, a place in which life-long friendships are established and to which all are sure always to receive the warmest of welcomes. Long may this continue.

Finally, the year ended with a tour to Cornwall, in which we undertook a week-long residency as the visiting choir at Truro Cathedral, following the successful template established by similar ventures to Belfast (2015), and to St David’s and to Lichfield (2016). A wonderful, occasionally hysterical week followed. Sarah’s Fitzwilliam Service, re-arranged for sopranos, altos, tenors and basses, was debuted at Evensong on the Thursday evening.

It has been a privilege beyond words to be involved in the leadership of the Choir, and I extend my warmest thanks and best wishes to all the wonderful people who have sung with us and supported us over the last two years. Long may the Choir continue to thrive.

RICHARD BATEMAN (2013, PhD English),
Conducting and Musical Leadership Scholar 2015–2017
**MASTER AND FELLOWS OF THE COLLEGE**

(as at October 2017)

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The Hon Mr Justice Li CBE, JP
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Dr David Starkey CBE, FSA, FRHistS
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Helen King QPM

**Fellows**
Mr Francis Knights: President, Tutor for Undergraduate Students, Steward and SCR Steward, DoS in Music
Professor Nigel Slater: Professor of Chemical Engineering (1999), Head of the Department of Chemical Engineering and Biotechnology
Professor Michael Potter: Professor of Logic
Mr Richard Hooley: DoS in Law for LLM, UL in in Corporate Law, Director for the MCL
Dr David Cole: DoS in Engineering, DoS in Management Studies, USL in Engineering
Professor David Cardwell FReS: Professor of Superconducting Engineering, Head of the Department of Engineering
Dr Rosemary Horrocks FRHistS: DoS and CTO in History, Governing Body Secretary, AL in History
Dr John Leigh: DoS in Modern & Medieval Languages, USL in French
Dr Kenneth Platts
Dr Hero Chalmers: CL and DoS in English, Fellow Librarian
Professor Dominic Keown: DoS in Modern & Medieval Languages, Professor of Catalan Studies
Professor Bhaskar Vira: Graduate Tutor, DoS in Geography, Professor of Political Economy, Director of University of Cambridge Conservation Research Institute
Professor Robin Langley: Professor of Mechanical Engineering (1997)
Professor Eamonn M. Mastorakos: Professor of Energy Technologies
Professor David Coomes: DoS in Natural Sciences (Biological), Professor in Plant Sciences
Professor Martin Millett FBA, FSA: Laurence Professor of Classical Archaeology
Dr Rachel Camina: Tutor for Graduate Students, DoS, CTO and AL in Mathematics
Dr Alexei Kovalev: UL in Mathematics
Dr Subha Mukherji: USL in English
Dr Robert Abayasekara: Tutor for Undergraduate Students, DoS in Medicine & Veterinary Medicine
Professor James Elliott: Tutor for Undergraduate Students, DoS in Natural Sciences (Physical), Professor of Macromolecular Materials Science
Dr Andrew Wheatley: Fellow Safety Officer, USL in Chemistry
Dr Kourosh Saeb-Parsy MRCS: DoS in Clinical Medicine, Clinical Lecturer in Transplant Surgery
Dr Sara Owen: Tutor for Undergraduate Admissions (Arts), Tutor for Undergraduate Students, DoS, Research Associate, and AL in Classics
Dr Angie Tavernor MRCS: Tutor for Undergraduate Students, DoS in Clinical Veterinary Medicine, AL in Veterinary Anatomy
Dr Jason Rentfrow: Tutor for Graduate Students, DoS in Psychological & Behavioural Sciences (Michaelmas), Reader in Personality & Individual Differences
Dr Paul Chirico: Senior Tutor, CTO in English, Disability Officer
Dr Simon Gathercole: DoS in Theology, Reader in Divinity
Dr Matthew Wingate: Tutor for Undergraduate Students, DoS and Reader in Mathematics
Mr Andrew Powell: Bursar, Data Protection Officer, Freedom of Information Officer, Child Protection Officer
Dr Jonathan Cullen: Tutor for Graduate Students, UL in Engineering
Dr Susan Larsen: Acting Senior Tutor, DoS in Modern and Medieval Languages, AL in Slavonic Studies, Acting Disability Officer
Dr James Aitken: Tutor for Graduate Students, DoS in Asian & Middle-Eastern Studies, Reader in Hebrew, Old Testament & Second Temple Studies, Praelected
Dr Holly Canuto: Tutor for Undergraduate Students, Tutor for Undergraduate Admissions (Sciences), DoS in Natural Sciences (Biological), Director of Education in the School of Biological Sciences
Dr Anna Watson: CTO and DoS in Economics
Dr Andrew Jardine: DoS in Natural Sciences (Physical), UL in Physics
Dr Kasia Boddy: DoS in English, Reader in English
Dr Louise Hanson: Chandaria Fellow, CTO, DoS in Philosophy
Dr Stuart Middleton: Research Fellow in History
Dr Stephen Sawiak: Acting Tutor for Graduate Students, ADoS in Mathematics for Natural Sciences
Dr Andreas Televantos: CTO and DoS in Law
Dr Emma Lees: DoS in Land Economy, UL in Environmental & Property Law, Dean, Fellow Environmental Officer
Dr Gabriel Glickman: DoS in History, UL in Early Modern British & Irish History
Dr Julia Guarneri: DoS in History, UL in American History
Dr Nicola Jones: Development Director
Professor Iamthi Tsimpli: Acting Tutor for Graduate Students, DoS in Linguistics
Dr Tilman Flock: Research Fellow in Computational Molecular Biology
Dr Enrico Crema: DoS in Archaeology, Fellow Communications Officer, UL in Archaeology
Dr Daria Frank: Research Fellow in Environmental Modelling
Dr Christos Genakos: DoS in Management Studies, USL in Economics
Dr Richard Powell: DoS in Geography, UL in Human Geography
Professor Michael Kenny: Director of the Cambridge Institute of Public Policy
Mr David Winters: Research Fellow in History
Dr Cora Uhlemann: Research Fellow in Physics
Dr Erik Gjesfeld: Research Fellow in Archaeology
Dr Yeonsook Heo: DoS in Architecture, UL in Architecture
Dr Rogier Kievit: Tutor for Graduate Students

**Bye-Fellows**

The Venerable John Beer: Wine Steward
Dr Nicholas Pyper: Chemistry
Dr Andrew Buckley: ADoS in Earth Sciences
Professor Richard Marks: Keeper of the College Works of Art, Honorary Professor of History of Art
Dr Annalise Katz-Summercorn: Medicine
Dr Robert Harle: DoS in Computer Science
Professor Mark Arends: Histopathology
Dr Aaron D’Sa: Neuroscience
Dr Yin Wu: Pathology
Dr Matthew Neal: History, Deputy Praelected
Dr Victoria Condie: Medieval Literature
Dr Olenka Pevny: Slavonic Studies
Dr Deepak Venkateshvaran: Physics
Dr Timothy Williams: Veterinary Medicine
Mr Myungun Kim: Economics
Professor Christopher Watson: Medicine
Dr Moreed Arbazadah: Classics
Ms Georgina Cannon
Dr Fiona Danks: Geography
Dr Victor Gomes: Computer Science
Dr Danny Ho: Chemistry
Dr Graham Spelman: Engineering
Dr Graeme Jenkinson: Computer Science
Mr Paul Hoegger: German
Dr Celine Vidal: Geography
Dr Martin Parker Dixon: Music
Dr John Marshall: Physics
Dr Andrea Giusti: Engineering
Ms Sarah Kolopp: DoS in HSPS
Dr Marco Geraci: Economics
Dr Carla Mulas: Veterinary Medicine
Ms Afra Pujol I Campeny: Modern & Medieval Languages
Dr Nima Razavi-Ghods: Engineering
Dr Charles Read: History
Dr Timothy Hughes: Engineering
Dr Michael Conterio: Physics
Ms Catherine Groom: Director of Music

USL University Senior Lecturer
UL University Lecturer
UAL University Assistant Lecturer
ADR Assistant Director of Research
SRA Senior Research Associate
AL Affiliated Lecturer
CL College Lecturer
CTO College Teaching Officer
DoS Director of Studies
ADoS Assistant Director of Studies
Visiting Fellows 2017–2018
Professor Glen Norcliffe (M 2017)
Professor Ben Bowling (L & E 2018)
Professor Richard Sherwin (L & E 2018)
Professor Gill Plain (L & E 2018)
Dr David Wood (L & E 2018)

1869 Fellow Benefactors
Mr Peter Selman
Mr Kenneth Olisa OBE
Mr Xiaoyang Xie

Patrons
HM King Felipe VI of Spain
Chancellor Kimiko Tsuzuki

Other College Officers
Revd Helen Arnold: Chaplain

Junior Members’ Association Officers
Senior President: Professor Nigel Slater
Senior Vice-President: Dr Matthew Wingate
Senior Treasurer: Dr Stephen Sawiak

RECENT ELECTIONS AND APPOINTMENTS

ELECTIONS TO FELLOWSHIPS

Christos Genakos

Christos is Senior Lecturer in Economics and Policy at the Cambridge Judge Business School. He is also an Associate Researcher at the Centre for Economic Performance at LSE and a Research Fellow in the Industrial Organization programme of the Centre for Economic Policy Research (CEPR). He received his PhD in Economics from the London Business School. He holds a Master’s degree in Economics from University College London and a Bachelor’s in Economics from the National and Kappodistrian University of Athens.

His research focuses on applied microeconomics, with an emphasis on industrial organization and quantitative techniques for competition analysis and regulation. In addition to extensive publication, he has advised many leading firms and international organizations on regulation, antitrust and pricing-related issues.

Christos was admitted to his Fellowship on 2 October 2017.

Richard Powell

Richard’s research interests encompass historical and cultural geographies, the geopolitics of territory and resources, geographies of science, and the histories of the social and natural sciences.

His fieldwork has focused on the Circumpolar Arctic, as well as Denmark, Canada, the US and the UK. In October 2017, he will commence a major, five-year, ERC-funded project on Arctic Cultures. Richard teaches extensively across geographical topics, and has a deep commitment to encouraging students from all backgrounds to study at Oxbridge.

Richard has written extensively on Arctic geographies, peoples and cultures, as well as the governance and geopolitics of the Polar Regions. His publications also include historical and cultural geographies, geopolitics and the history of geographical thought. He also contributes regularly to public policy and media discussions about the Polar Regions.

Richard was admitted to his Fellowship on 2 October 2017.

Michael Kenny

Michael is Chair of Public Policy at the University of Cambridge, and the inaugural Director of the Cambridge Institute of Public Policy. He previously held positions at Queen’s University, Belfast, the University of Sheffield, and Queen Mary University of London, where he was the inaugural Director of the Mile End Institute. He is currently a Visiting Fellow at the UCL’s Constitution Unit, sits on the Leverhulme Trust’s Advisory Committee, and is co-director of the British Academy’s Governing England programme.

He is the author of The Politics of English Nationhood which was published by Oxford University Press in 2014, and won the UK Political Studies Association’s McKenzie prize for best book in political studies in 2015. He is currently co-authoring (with Nick Pearce) a book on The Anglosphere in British Politics, which will be published by Polity Press in 2018.

Michael was admitted to his Professorial Fellowship on 2 October 2017.

David Winters

David is a Research Fellow in English, who works primarily on American fiction since 1945, with a focus on the history and sociology of literary institutions. He holds a BA from the University of Birmingham and an MA from University College London; he also worked for several years in book publishing. He is the authorised biographer of the writer, teacher and editor Gordon Lish, the subject of his PhD thesis at Cambridge.

David was admitted to his Research Fellowship on 2 October 2017.

Cora Uhlemann

Cora is a theoretical physicist by training, having obtained a degree in Mathematics and Physics specialising in Theoretical and Mathematical Physics. During her studies, she became fascinated by the physics of the Universe across the largest scales of space and time, and pursued a PhD in Cosmology at the LMU Munich studying the cosmic web – the large-scale skeleton of matter in the Universe. Subsequently, she has become interested in understanding gravitational clustering and in statistically describing the cosmic web using different theoretical methods.

During her postdoc at Utrecht University, Cora worked on the statistics of rare events – an area of probability theory with manifold applications from risk analysis to climate dynamics – and its utilisation in astrophysics. Since then, she has studied novel statistics for the cosmic web to extract more information from galaxy surveys.

Besides her research, she is passionate about encouraging students to pursue science, to discover its broad spectrum, and to put it into practice in their careers.

Cora was admitted to her Research Fellowship on 2 October 2017.

Erik Gjesfjeld

Erik is an anthropological archaeologist with broader interests in the evolution of culture and the application of quantitative and computational methods to understanding human history. In particular, he specializes in the archaeology of Northeast Asia and maritime hunter-gatherer societies.

Currently, he is the Renfrew Fellow at the McDonald Institute for Archaeological Research, where his upcoming research will focus on modelling the dynamics of technological change using archaeological big data. Previously, Erik was a Post-Doctoral Fellow at the Institute of Society and Genetics at UCLA, and before that he was a graduate student at the University of Washington. He received his PhD in June 2014, for a dissertation which reconstructed the social networks of foraging populations in the Kuril Islands.

Erik was admitted to his Research Fellowship on 2 October 2017.

Yeonsook Heo

Yeonsook is a University Lecturer in Architecture. She specializes in building-performance modelling and simulation, with expertise in uncertainty quantification and risk assessment. Her research is on developing models and methods for enhancing current practices in predicting and assessing building performance. She received the 2013 Outstanding Young Contributor award from the International Building Performance Simulation Association. Before coming to Cambridge, Yeonsook worked as a postdoctoral fellow in the Decision and Information Sciences Division at the Argonne National Laboratory; her work at ANL included developing a systematic calibration process with a Bayesian calibration framework and Gaussian process modelling for measurement and verification of building retrofit energy savings.

She received her PhD in Building Technology from the Georgia Institute of Technology and BS in Architecture from Chung-Ang University (in Seoul). She has been a Bye-Fellow at Fitzwilliam since 2014.

Yeonsook was admitted to her Fellowship on 2 October 2017.

Rogier Kievit

After studying psychology and some philosophy at the Universities of Amsterdam, Otago and Harvard, Rogier started PhD research at the University of Amsterdam, working on the development and application of statistical models that capture ideas about the relationship between the mind and the brain. During the PhD he worked in Cambridge at the MRC Cognition and Brain Sciences Unit, with Nikolaus Kriegeskorte and Professor Richard Henson on modelling in cognitive neuroscience. This inspired him to return to Cambridge as a postdoctoral researcher, part of a Cambridge-wide research team called Cam-CAN.

Rogier’s research focuses on the intersection of psychology, neuroscience and statistical modelling. As part of Cam-CAN focusing on neurocognitive ageing, he studies the dynamics of psychological and neural changes across lifetime, using techniques from network analysis and structural equation modelling to capture the evolving dynamics of ageing, and how reorganization and reallocation of neural systems allow for successful neurocognitive ageing.

Rogier has been a Bye-Fellow of Fitzwilliam since 2013, and was admitted to his Fellowship on 11 October 2017.
Georgina Cannon

Georgina has been working as a professional fundraiser for non-profit institutions for over fifteen years. She began her career working with international NGOs before moving into higher education, initially at London Business School and now at the University of Cambridge. Georgina is Head of Major Gifts for the central University and its academic schools and departments. She leads a team that builds relationships with individual philanthropists, charitable trusts, and corporations in order to support the education and research priorities of the University.

In a voluntary capacity Georgina has just completed two terms of office as a Trustee of Roald Dahl’s Marvellous Children’s Charity, an initiative set up in memory of Roald Dahl that seeks to improve the lives of chronically-ill children and their families.

Victor Gomes

Victor studied Computer Engineering at Politecnico di Torino in Italy and finished a Diplôme d’Ingénieur at INSA Lyon, in France. His PhD was undertaken at the University of Sheffield, on Kleene algebras for program correctness.

He is a Research Associate at the Computer Laboratory, working in the REMS (Rigorous Engineering of Mainstream Systems) project.

Graeme Jenkinson

Graeme is a Senior Research Associate within the Security Group at the Computer Laboratory. There, he is working on the DARPA-funded CADETS project where he is leading the research and development of a distributed tracing framework. Prior to CADETS, he worked on Pico, a token-based password replacement.

He has thirteen years experience working in high-level technical roles in the defence and automotive industries, most recently at BAE Systems’ Advanced Technology Centre Technical as the technical lead for a secure systems research programme with direct responsibility for projects worth approximately £1m/year. In conjunction with his academic work, he acts as an independent consultant in the areas of software, security, usability and systems.

Paul Hoegger

Paul is Coordinator for German at the Language Centre of the University of Cambridge, where he has developed a range of general and specialised Language courses, which he also teaches. He is Principal Examiner and setter for the German Pre-U paper at University of Cambridge International Examinations, and teaches weekend courses in German literature at the University’s Institute of Continuing Education at Madingley Hall.

Originally from the Swiss city of Bern, he settled in Germany in his late teens to become a ballet dancer. At 35 he moved to Cambridge to read Modern and Medieval Languages. He holds a BA in French and German and an MPhil in European Literature from the University of Cambridge, and has been researching eighteenth-century German drama for his PhD project at the German department of Cambridge University.

Since 2012 Paul has been Supervisor of Studies in German at Fitzwilliam College.

Celine Vidal

Celine is a volcanologist working in the Department of Geography as Postdoctoral Research Associate, funded by the Leverhulme Trust. Her research is focused on large explosive eruptions from the past, and their impacts on climate and civilisations; currently she is studying large eruptions from the Late Stone Age in Ethiopia and their potential impact on ecosystems and early Homo sapiens populations in the African Rift.

She studies volcanic rocks to identify and reconstruct the chemical and physical processes that occur during these eruptions. The work is inter-disciplinary, including as volcanology, climatology, archaeology, and history.

Martin Parker Dixon

Martin’s research interests are in the interdisciplinary area of twentieth-century music and philosophy. He has worked for the most part with Continental philosophy – the Frankfurt School, Sartre and Heidegger – but is increasingly interested in the intersections between the Continental and Analytical traditions.

Currently he is working on the post-Wittgensteinian language-game theories of Wilfrid Sellars and Jean-François Lyotard, and their application in the analysis of artistic practices.
John Marshall

John studied Natural Sciences at Fitzwilliam as an undergraduate from 2000, then continued for a PhD in High Energy Physics. During this time, he was a Leathersellers Scholar and worked on the MINOS experiment, studying neutrino oscillations.

He is a Senior Research Associate at the Cavendish Laboratory, and his major interest is the reconstruction of events in particle-imaging detectors. Such detectors provide images of complex interaction topologies, in which individual particles must be resolved. He is the author of the Pandora software framework for pattern-recognition algorithms. Pandora promotes a multi-algorithm approach to pattern recognition, in which many algorithms gradually build up a picture of structures in images; it is used by the linear collider experiments ILC and CLIC, and by the DUNE and MicroBooNE experiments in the neutrino sector.

Andrea Giusti

Andrea is a Senior Research Associate at the Department of Engineering. His research, sponsored by Rolls-Royce, is mainly focused on numerical simulations of spray combustion and multiphase flows, with the overall objective of developing environmentally-friendly technologies to be used in next-generation gas turbine combustors.

His main research interests are in the investigation of the dynamic behaviour of turbulent flames and the development of numerical models for a reliable prediction of the processes involved in pollutant and noise emissions as well as flame response at adverse conditions. These include spray atomization, local extinction and blow-off, thermoacoustic instability, combustion noise, transport of combustion inhomogeneities, and soot formation and evolution.

Sarah Kolopp

Sarah Kolopp is a political sociologist and an alumna of the French École Normale Supérieure. She has lived, taught and researched in various places, including Paris (as a Teaching Fellow at Sciences Po Paris), New York (as a visiting fellow at NYU’s Institute for French Studies), Cambridge (at Clare College and Fitzwilliam) and Miami.

Her work straddles several fields—sociology of elites, state theory, public policy and history of capitalism—and privileges qualitative and historical methods. She is interested in how state power over the economy is exercised, legitimized and transformed over time, and in the dynamics of hybridization of public and private interests. Her upcoming project will explore the transnational history of conflict of interest as a legal category, a moral issue and a public-policy concern. She has also published on methodological issues related to fieldwork in elite contexts.

Marco Geraci

Marco is a Postdoctoral Research Associate at the Cambridge-INET Institute (linked with the Institute for New Economic Thinking, based in New York) which is part of the Faculty of Economics of the University of Cambridge. He began his studies in Economics at the University of Warwick with a BSc, then completed an MSc in Economics at the London School of Economics and pursued a PhD in Economics at the Université Libre de Bruxelles. He is interested in financial economics and econometrics. In particular, during his doctoral studies, he developed a market-based measure of systemic risk and studied the importance of short selling for financial stability. He plans to build on and extend this research agenda whilst in Cambridge.

Carla Mulas

Carla is a Research Associate at the Cambridge Stem Cell Institute, working in the laboratories of Austin Smith and Kevin Chalut. She came to Cambridge in 2010 for her PhD, looking at the early events in mouse embryonic stem cell differentiation and lineage choice. Afterwards, she worked with Jennifer Nichols to study how the corresponding events happen during embryonic development, and to take advantage of newly-developed single-cell RNA sequencing techniques. Carla is part of an interdisciplinary team, trying to combine stem-cell biology with microfluidics and physics.

Since 2013, Carla has been supervising first-year medical and veterinary students in Molecules in Medical Science.

Afra Pujol i Campeny

Afra was born in Girona, Catalonia, where she discovered her passion for languages. She read Classics in Cambridge (2010–2013) and specialised in Historical Linguistics during her MPhil. She is currently a PhD student in Old Catalan and Old Occitan syntax, but her range of academic interests also include (Historical) Sociolinguistics, Language Planning and Language Teaching. At present, she is Batista i Roca Fellow, and combines her research with Catalan and Spanish teaching in Fitzwilliam and in the Modern and Medieval Languages Faculty.
Nima Razavi-Ghods

Nima joined the Cavendish Laboratory in 2006 after completing a CASE-award PhD at Durham University in the area of radio propagation. He currently holds the position of Senior Research Associate within the Astrophysics group. His research interests lie broadly in radio-frequency, microwave and optical systems as well as in digital signal processing. He has expertise in phased-array reception systems including low-noise amplifiers, modern RF and microwave measurement techniques, bi-static and mono-static radar technologies, and readout systems, as well as Radio-over-Fibre (RFoF) technology for radio astronomy instrumentation. He is currently involved in a number of international radio-astronomy developments, such as the Square Kilometre Array (SKA) and the Hydrogen Epoch of Reionization Array (HERA) telescopes.

Charles Read

Charles’s research and teaching interests focus on the economic history of the British Isles in the nineteenth and twentieth centuries. His current research examines the economic causes and political consequences of financial crises in the United Kingdom in that period. The research for his doctoral thesis, entitled British Economic Policy and Ireland, c.1841–53, has won the Thirsk-Feinstein PhD Dissertation Prize, the T.S. Ashton Prize for the best Economic History Review article and the New Researcher Prize of the Economic History Society. He lectures, examine and supervises for the Faculty of Economics and the Faculty of History at Cambridge.

Michael Conterio

After completing a PhD in Semiconductor Physics, Michael moved into Physics Education, helping develop the next generation of physicists through working for Isaac Physics (a Physics-teaching project of the Cambridge University Department of Education. In his spare time he enjoys hill-walking, board gaming and performing stand-up comedy loosely around the theme of science.

Catherine Groom

Catherine is a player of historical harps and recorders, a singer, and a writer on music. She has worked for the Royal Shakespeare Company (including on their West End run of their adaptations of Hilary Mantel’s acclaimed novels Wolf Hall and Bring Up The Bodies); in seasons for Shakespeare’s Globe Theatre; for various BBC and independent television channels; extensively within the liturgical musical world; and in opera pits across the UK and further afield in a great many operas by composers from Cavalli, Monteverdi to Handel to Britten and beyond. Her writing on music has been commissioned by many print publications and record labels. Catherine read Music at St Catherine’s College, Oxford and trained as a performer at the Guildhall School of Music and Drama and at the Royal Academy of Music.
SENIOR STAFF OF THE COLLEGE

The people pictured here represent more than 140 permanent and temporary staff who play a central role in the life of the College community, helping make sure that the College runs smoothly in all its functions. I very much hope that such pictures will be a regular feature of future Journals.

ANDREW POWELL, Bursar

Rob Clarke
Head of Catering and Events

Claire Claydon
Head of Tutorial Support

Stuart Douglas
Head Porter

Julian Eddy
Maintenance Manager

Sue Free
Graduate Officer

Agnes Giangrande
Accommodation & Housekeeping Manager

Emma Hilditch
Events Manager

Catherine Jagger
Assistant Secretary to the Governing Body

Julie Kerr
Front of House Supervisor
Sarah Rowland-Jones
HR Officer

Carol Lamb
Development Officer – Alumni Relations & Events

Andy Milne
Domestic Bursar

Valter Monteiro
Head of Finance

Susan Park
IT Director

Chris Roberts-Lewis
Librarian

Steve Kidger
Head Gardener

Gill Skerritt
Admissions Officer

Pía Spry-Marqués
Communications Officer

Donna Thomas
Deputy Development Director

Richard Wayman
Executive Head Chef

Susan Park
IT Director
Graduate Matriculation, October 2017

H. Kwon, P. Pantavos, J. Jarratt Bamham, L. Foglianti Seadini
S.E. Bamhart, K.K. Hau, R.S. Beaton, V.R. Bheemireddy, N. Falahati (MCR Social Secretary), H. Yeung (MCR Welfare Officer), C.H. Mangla (MCR Technical Officer), T.E. Sayer (MCR Treasurer), S.K. Larsen (Senior Tutor), N.M. Padfield (Master), B. Vira (Graduate Tutor), G.G. McHarg (MCR President), A.M. Walsh, H.K. Chiu, M.M. Zakrzewska-Pim (MCR Welfare Officer), K.M. Hetherington, B. Tulsi, L.A. Akonmor, A. Konhoujam
In case you were wondering: Paul Chirico will be back! He is taking a much-deserved sabbatical leave in 2017–2018, but he will return as Senior Tutor in September 2018. His is a very hard act to follow, even for a short time. I am enormously grateful to the Master, the Bursar, the other Fellows, and all our wonderful College staff – especially those in the Tutorial office – for their support as I take up the challenges of this new role.

One of the pleasures of this role is the opportunity to celebrate our students’ accomplishments, so it is my happy duty to report that, in the 2017 examinations, Fitzwilliam undergraduates achieved a total of 114 Firsts, surpassing the College’s previous record of 105 (in 2007). Seven of these were Starred Firsts, and a number of others were very highly ranked in their class lists. Fifteen students were awarded University Prizes. The proportion of Fitzwilliam students achieving a First in Tripos rose (for the fourth successive year) from 23% to 25%. The proportion achieving a 2.1 or a First remained constant at 79% (after seven successive rises, the equivalent figure in 2009 having been 66%). The proportion achieving a 2.2 or a Third also remained approximately constant at 15% (the long-term trajectory is downward, the figure in 2009 having been 23%). In absolute terms these are good numbers, even if they have only lifted the College one place in the Tompkins Table, from 21st in 2016 to 20th in 2017.

Other figures we can celebrate are these: the College received 594 direct applications for undergraduate admission in 2018, a significant increase on the 480 received in 2016–2017, or the 380 received in 2014–2015. Although it is difficult to know for sure what is driving this steady increase in the number of direct applications, our Admissions staff are convinced that the recent refurbishment of freshers’ accommodation on A, B and C staircases is largely responsible. I would attribute the increase also to their own tireless focus on extending the level of College outreach and communications. Outreach is a project in which the entire College participates: student volunteers provide lively tours of the College or allow visiting school students to shadow them for a day, and many Fellows make school visits or host subject-focused study days. Last year the College hosted special events for school students interested in Mathematics, English, Music, Geography, Veterinary Medicine, as well as holding essay competitions in Land Economy, Classics, Architecture, and Russian Studies.

The College is also home to a lively and growing graduate community of around 365 students, full-time and part-time. The part-time students are increasingly important, with the majority of them in innovative MSt courses in Human Genomics and in Applied Criminology and Police Management. Financing graduate study is an increasing challenge: every year many students turn down the places they have been offered at Cambridge because they cannot afford to accept them. Others struggle to make ends meet after they arrive. Alumni gifts play a vital role in funding awards that attract talented students and support them once they are here, with hardship awards and with grants that assist with research costs.

As Acting Senior Tutor I have particularly enjoyed the opportunity to work more closely with the JCR and MCR Committees, both of which take their responsibilities for student welfare – and for student fun! – very seriously. One of the highlights of my year so far was the Winter Wonderland event that the JCR and MCR jointly organised for the entire Fitzwilliam community – students, staff, and Fellows – on the last day of the 2017 Michaelmas term. Handmade decorations, fairy lights, an old-fashioned candy-floss machine, and live music from all the Fitz ensembles cast a magic spell over the afternoon. There was a craft table for kids, a baking contest, a very popular chocolate fountain, stacks of mince pies, and simple guessing games to raise money for a local charity that helps the homeless. Undergraduates mingled with graduates, students mingled with staff, and all of us paused, I think, to feel lucky to be at Fitz. Numbers and percentages tell only a small part of the College story: I am at least as proud of the creativity and generosity of our students as I am of their academic achievements.

SUSAN LARSEN, Acting Senior Tutor
COLLEGE STATISTICS

Undergraduate-student statistics

At the beginning of the academical year 2016–2017, there were 446 students in residence registered for undergraduate degrees, 260 men and 186 women. Corresponding numbers for 2015–2016 were 435, 258 and 177. There were no Affiliated Students in 2016–2017.

About 78% of the undergraduates were from the UK, about 6% from other European Union countries, and about 17% from outside Europe.

Over all undergraduate years, the total of students with Firsts was 114, and the College was 20th in the Baxter Tables.

The results for the finalists in 2016–2017 and 2015–2016 were:

<table>
<thead>
<tr>
<th>YEAR</th>
<th>2017</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>First, with Distinction</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>First</td>
<td>37</td>
<td>31</td>
</tr>
<tr>
<td>2.1</td>
<td>76</td>
<td>68</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2.2</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Pass Merit</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Pass</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Deserved Honours</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Fail</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td>138</td>
<td>122</td>
</tr>
</tbody>
</table>

Graduate-student statistics

In January 2017 there were approximately 324 full-time graduate students on the books of the College; the total changes through the year as, for instance, PhD students are approved for their degrees. Because of the number of one-year courses, the number of first-year graduate students is similar to the number of first-year undergraduates.

This population was very diverse in origin: about 34% of the full-time graduate students were from the UK, about 22% from other European Union countries, and about 44% from outside Europe. It was about 64% male and 36% female.

Of the full-time graduate students, 58% were either registered as candidates for the PhD or on track to be so registered (189 students), and 32% were undertaking MPhil or other one-year Masters degrees (103 students: some were taking the MPhil as a precursor to studying for a PhD – a formal requirement in many Departments – whilst others were studying here for a single year with the MPhil as the final degree). Other full-time students were in medical or veterinary studies (19 students), undertaking other courses such as those leading to PGCE or LLM, or at the Judge Institute working for an MBA.

There were also about 71 part-time graduate students, of which the largest group was 43 senior Police Officers studying Applied Criminology and Police Management. There were 17 other Master of Studies students, 6 PhD students and 5 Masters and Diploma students.