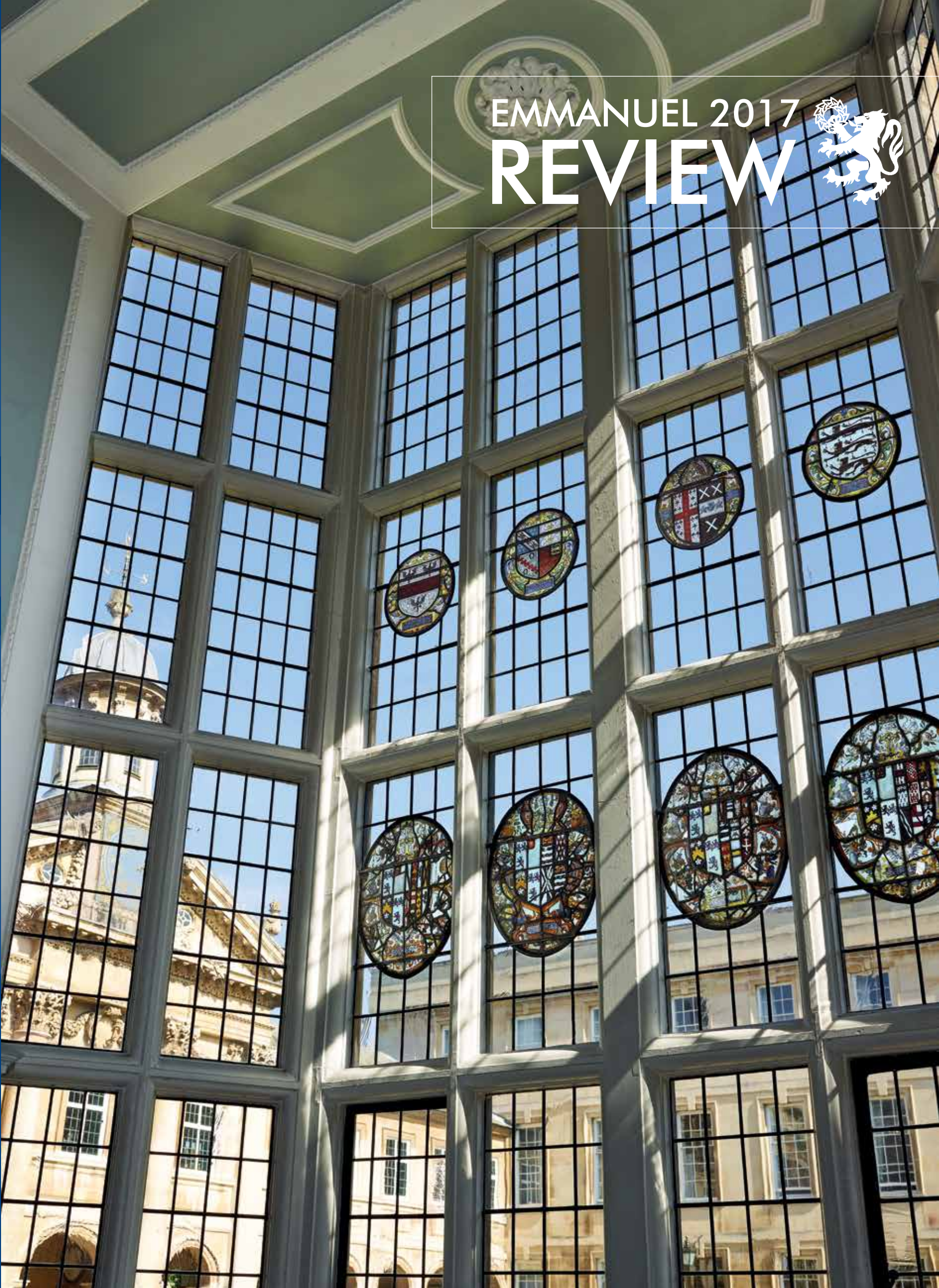


EMMANUEL 2017

REVIEW



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The cover shows a view of the Chapel, taken through an oriel window in the Hall

Photograph: Marcus Ginns

Acknowledgements

Emmanuel College would like to thank all those who have assisted in the production of the *Review*

Published by
The Development Office,
Emmanuel College, Cambridge CB2 3AP

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Photography by
Marcus Ginns unless otherwise stated

Design and production by
H2 Associates, Cambridge

VIEW FROM THE LODGE



Immerse yourself again in the magical atmosphere of Emma and remember what it was like to be young. We're still here, relishing the special qualities of this place, which means as much to today's generation as it did to yours. We love hearing from you and seeing you and your families whenever you can visit. Do come!



VIEW FROM THE LODGE – CONTINUED

Summer is always a glorious time at Emma and we've had a simply fabulous one this year. May week was heavenly, with the May Ball enjoyed in night-time temperatures that would have graced a normal June day. But beautiful weather in beautiful surroundings is the least of it: there's been so much good news to celebrate.

We are absolutely delighted to be the proud new owners (almost) of Furness Lodge and the car park on the Regent Street end of Park Terrace

First, we are absolutely delighted to be the proud new owners (almost) of Furness Lodge and the car park on the Regent Street end of Park Terrace. As I write, the purchase is close to completion. The only part of the site we haven't been able to buy is the old Telephone Exchange on Regent Street, as the University was determined to hang on to all the office space it could. But with the car park and Furness Lodge we have enough new space to transform the southern end of Emma, making better provision for all members of our community and improving our least beautiful corner. We are now in the process of master-planning in preparation for this exciting step forward. Mike Gross, our Bursar, has made sure that Emma is in a strong enough position financially to buy the property; everything we do to develop the site we will do with your help. Pages 16 and 17 of this *Review* show what we are trying to achieve and some of the options before us; do tell us what you think.

Second, this year's exam results confirm that we are still among the top-performing colleges and 35.4 per cent of our students achieved Firsts. This reflects their hard work, and the tremendous support given to them by the Senior Tutor and his staff, all the Directors of Studies and Supervisors, and the Tutors.

Not content with these two pieces of excellent news, May Week was a triumph on the river. Both our men's and women's first boats won their blades in a series of spectacular bumps: this has never been done before in Emma's history. Pride doesn't begin to cover the emotions of this year's Boat Club dinner.

The Head Gardener, Christoph Keate, and his team have been busy replanting many borders in the past couple of years. There is now even more colour in the gardens, including this display of lupins in the Master's garden

And there was so much else. For example, you can read in this *Review* about the terrific performance of our University Challenge team, led by Bobby Seagull, whose friendly battle with Eric Monkman of Wolfson hit the national news.

Of course there were sadnesses too, of which the greatest was the desperately sad loss of François Reverchon, our Catering Manager for the last 23 years, of whom there was such a lovely photograph in last year's *Review*. His death left us shocked, and we miss him greatly. We are delighted that Matt Carter, the young chef he brought into Emma over 20 years ago, is now our Executive Head Chef and Head of Catering and, with some adjustments to the staff structure, we are moving forward.

Sustaining us in all that we do is the overwhelming strength of the support and interest from Emma members. Meeting so many of you has been another highlight and in the last year Bob (my husband), Sarah Bendall and I have visited Hong Kong, Singapore, Sydney and Perth; the east and west coasts of America; Vancouver; and Belfast. We're always moved by the warmth of your welcome, and hope that you will come and see us here.

The same, of course, goes for all readers of this *Review*. You are welcome to come and dine at High Table, immerse yourself again in the magical atmosphere of Emma and remember what it was like to be young. We're still here, relishing the special qualities of this place, which means as much to today's generation as it did to yours. We love hearing from you and seeing you and your families whenever you can visit. Do come!

Fiona Reynolds
Master



TEAM EMMA WIN THE NATION'S HEARTS ON UNIVERSITY CHALLENGE

BOBBY SEAGULL – GRADUATE STUDENT

'Well, I will say that you guys, you're very, very clever. And it was a pleasure to watch this match. Thank you very much. Emmanuel, sadly you have to go home now.'

These were words of comfort by the formidable quizmaster Jeremy Paxman on 27 March 2017 at the end of our brave 170–140 loss to Wolfson Cambridge, the closest semi-final in 12 years.

Emmanuel has an illustrious recent history on University Challenge, and won in 2009–10 when the legendary Guttenplan was captain, joined by Hastings, Harris and Scott. The 2016–17 Team Emma (our affectionate nickname) were historian Tom Hill, mathematician Leah Ward, physicist Bruno Barton-Singer and myself (a Masters but soon-to-be PhD candidate in education specialising in maths). We were assisted by three mascots: Manny Lion, Kleiny Bottle and Ellie Duck (Manny and Ellie can be seen on the

mantelpiece in the Porters' Lodge beneath the official 'EMMANUEL – CAMBRIDGE' signage).

Paxman described Team Emma's 'flawless record' to those watching the semis as 'cheerfully dashing the hopes' of Nottingham (175–135), SOAS (195–130), Warwick (200–90) and Corpus Christi Oxford (170–55). Our semi-final was eagerly awaited by followers on social media and the BBC hyped it as 'the greatest face-off of all time'. Despite Team Emma's best efforts, we were out-buzzed by Wolfson and their iconic captain Eric Monkman.

We won many fans along the way with our combination of knowledge, teamwork and fun: you can even buy fan-produced merchandise such as mugs, t-shirts and even duvet covers!

The future is bright for quizzing at Emma. The Emmanuel College Quiz Society now has a constitution and even a Santander bank account.

We won many fans along the way with our combination of knowledge, teamwork and fun

With ECSU funding enabling us to purchase electronic buzzers, Emma entered the highest number of teams in the Cambridge quiz Cuppers, sending eight teams (32 students) out of a total of 44 college teams. Our very own Tom Hill is now President of the Cambridge University Quiz Society.

Fingers on the buzzers, here's your next starter for ten. When will we next see Emmanuel grace our screens? The answer is autumn 2017! A new team has qualified for 2017–18: we look forward to watching captain Mistlin with Derby, Chevallier, Fraser and reserve Cugini win the nation's hearts.





ROWING FOR CAMBRIDGE

FREDDIE DAVIDSON – UNDERGRADUATE

We were delighted that a first-year undergraduate was selected to join the Cambridge team in this year’s boat race. He then rowed for Emma in the May bumps, helping the men’s first VIII to win their blades in their new boat, ‘Spirit of 56’. This had just been given to the Boat Club by the Lent Term 1956 third VIII to mark the sixtieth anniversary of winning their blades. The bumps were particularly exciting as the ladies’ first VIII also won blades, in their nearly new boat, ‘Dame Fiona’, which was launched last year. Freddie writes below about his experience rowing for Cambridge.

Rowing for Cambridge University Boat Club this year has been a novel experience for me. Completing the training programme in tandem with studying first-year engineering has at times been quite challenging and I have had a very different timetable from that at school.

A typical day at Cambridge consisted of waking before six to eat a reasonable breakfast before morning training at the Goldie Boathouse. From training, I would go straight to nine-o’clock lectures at the engineering department, followed by a quick lunch and a bus ride from Goldie to the Ely Boathouse for a water session. The working time lost because of rowing all afternoon had to be made up for by studying hard in the evenings, which gave me a packed schedule!

This year’s squad had a mixture of undergraduates and graduates, and so was very varied in terms of



its members’ backgrounds and ages. This gave rise to a range of rowing experience and ability, and a unique dynamic. Although the mix was initially rather daunting, I quickly found myself being friends with students up to 12 years my senior. Training with rowers who had already been racing at top university level for four or five years was hugely helpful to my own development; coming straight from schoolboy rowing I quickly improved both on and off the water.

The first term was draining as I had to balance academic commitments and arrange supervisions around the six hours each day I devoted to rowing. I also had to adjust to earlier mornings and a heavier training load than I was used to. However, through the year I found that balancing the two

Being a part of such an historic race that I had grown up watching was a very special experience for me

sides of Cambridge life became second nature and the older members of the squad who had also studied my course were incredibly helpful.

Being a part of an historic race, which I had grown up watching, was a very special experience for me, and I have found that my rowing (and time-management) skills have improved more than I could have hoped for as a result.



Right: The Structures Research Lab at the Department of Engineering. The rig at the front is used to tension prestressing wires, hence the warning

CONCRETE AND BONE

LIFE AS A STRUCTURAL ENGINEER

CHRIS BURGOYNE – FELLOW

Structural engineering is sometimes described as the Second Oldest Profession; the human race has been building homes and bridges from time immemorial. While the Greeks rested large stones across the top of tall columns, the Romans knew about arches and made something remarkably close to modern concrete. However, even if they had known about structural theory, doing arithmetic in Roman numerals would have been impossible, so science was beyond them and buildings were constructed using the principles of proportion until the Renaissance. By the time of the Brunels and the Stephensons, most of the guiding principles had been understood. So what is left to study?

If I had been forced to live in the real world, I would have been a bridge engineer. Bridges are amongst the purest form of engineering: the idea that form follows function, with the shape of the bridge dictated by the flow of forces, usually leads to elegant design. Architects are not needed, although they often claim credit; their role in bridges is merely to decide what colour to paint the lamp posts.

Bridge engineering led me to the study of prestressed concrete. Concrete is strong in compression but cracks under tension, so by running a cable through it and compressing



Fully composite anchors developed for aramid ropes

the ends of the concrete together, much higher loads can be carried. The structure is lighter and more elegant, and is usually more durable. But its use is not for the faint-hearted: prestressing tendons are the most highly stressed structural elements anywhere, being routinely stressed to 70 per cent of their breaking load, and they require the use of high-strength concrete.

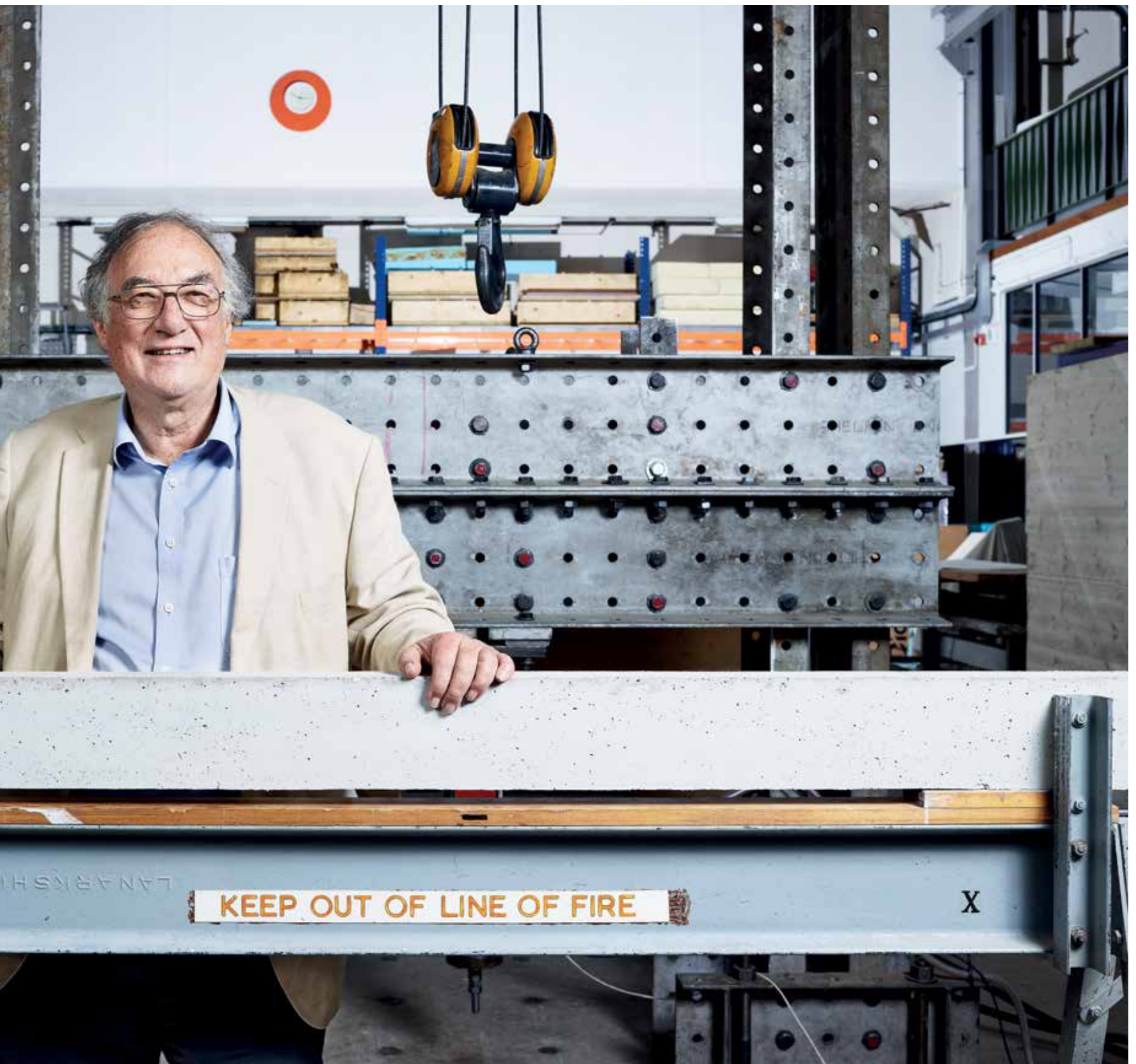
Concrete is often seen as a utilitarian material but is actually very complex: if you order a lorry load from a ready-mix company it will have a strength of about 40 MPa (Mega Pascals), but I have tested concrete taken from real buildings with a strength of 2 MPa and in the lab we can make concrete with a strength of 200 MPa. Chemists wouldn't be able to tell these mixes apart and it would take an electron microscope to be able to see the difference between them. The design of prestressed concrete pushes the engineer to the limit; for most materials it is sufficient to say that the structure is strong enough, but with prestressed concrete designers are faced with upper as well as lower limits, and they need to take account of things such as creep deformation and parasitic forces that are induced by the tendons themselves.

Early in my academic career I was asked if I wanted to work on plastic prestressing tendons. 'How strong are they?': '20 grammes per denier'. Twenty grammes seemed very small and what I knew about denier had nothing to do with engineering. But when you do the maths you find the material is ten times stronger than normal steel and nearly as stiff. It was the aramid fibre, Kevlar. We asked the manufacturer for their long-term data and they sent a chart that went up to four hours, so I phoned them to say they had sent the wrong chart. 'Buddy, we make bullet-proof vests and rocket nozzles: four hours is an eternity'; not, though, for the engineer where



a structure erected in the 1960s is regarded as 'new'. This led to a whole new career for me, investigating the long-term properties of these materials, to the extent that we now know at least as much as the fibre manufacturers.

High-strength fibres have many uses, for example they allow bridges to be constructed with very long spans. The world's longest bridge (in Japan) currently has a 2 km main span and the recently cancelled bridge at Messina would have had a 3.5 km span, which would have been at the limit for steel cables. There are several places where 5 km spans are needed (Norway, Japan) but which are impossible at present.



My work on fibres has led to my involvement in the SPICE project (Stratospheric Particle Injection for Climate Engineering). This assumes that we (the voters) will not allow the politicians to do enough to prevent the Earth's temperature from rising by more than 2°C, so we will need to cool the planet by reflecting back sunlight before it heats the earth. With colleagues in SPICE, I am working on a proposal to fly a balloon 20 km high in the stratosphere from which particles could be pumped.

The Greeks rested large stones across the top of tall columns, the Romans knew about arches and made something remarkably close to modern concrete

The design of the tether is a challenge because it would have to support its own weight and the bursting force from the liquid being pumped; only materials like aramid fibres will work.

In complete contrast, I have recently been working on the mechanics of bone, where we have been looking at the structural mechanics of trabecular bone within the femoral neck. Bone remodels itself to suit the loads it carries, so in the elderly, and especially those with

osteoporosis (usually women), the femoral neck loses its ability to withstand impact from a sideways fall, leading to hip fracture. It is a fruitful field of research because most medics are not taught physics, and most engineers aren't taught biology, but this is an area in which both aspects need to be understood properly.

I have been fortunate to work in a field that applies the same basic principles to many different disciplines and at many different scales.

Chris Burgoyne becomes a Life Fellow this year when he retires as Professor of Structural Engineering. Since 1988, he has taught countless Emma engineers and was a Director of Studies until 2016



Below left: Tools of the trade: an audio recorder and musical transcriptions

INDIAN CLASSICAL MUSIC

UNDERSTANDING THUMRĪ

CHLOE ALAGHBAND-ZADEH – FELLOW



In a warm room in a guesthouse just outside Venice, a group of women sit in a circle. Most are on an assortment of rugs and cushions on the floor, while some of the older ones sit on chairs around the edges. Their teacher sits on a mattress at the front.

She is singing *thumrī*, a semi-classical vocal genre of North Indian classical music. She sings one composition after another, pausing between each to explain the meaning of the lyrics. Her students listen intently. Their task is to decide which of these songs they would like to learn. As they listen, the students look around the room, making eye contact with each other and sharing their delight in what they are hearing. Occasionally, when they hear something especially beautiful, some of them comment out loud. One participant wipes tears from her eyes. After nearly half an hour and a short discussion, a unanimous decision is reached: the students would like to learn ‘*Holī main khelungī*’, a *thumrī* in *rāg Sohini*. Their teacher initially has some reservations because of the difficulty of the *rāg*, but soon affirms their choice, saying, ‘You should learn what you love!’ Then she gestures for them

‘You should learn what you love!’ Then she gestures for them to take out their notebooks and starts to dictate the names of scale degrees

to take out their notebooks and starts to dictate the names of scale degrees.

This is a snapshot of a vocal workshop I attended in June 2016, along with participants from the UK, Italy and India. Our teacher was Sunanda Sharma, a rising star in Indian classical music. All the students were women, ranging from people in their early twenties to senior citizens. Some were great musical enthusiasts and had known each other for years; others were newcomers to Indian classical music. Conversation at the workshop flowed between English and Hindi, with occasional translations into Italian. During the lessons, talking about music and about life seamlessly intertwined with practice and instruction. Sharma shared memories of her own learning experiences and anecdotes about being a musician. Learning *thumrī* gave rise to discussions about Hindu mythology, love, marriage, rural lifestyles in India, being a woman, and what it’s like to be separated from loved ones. These conversations shaped the ways we experienced the music, intensifying our emotional investments in what we were hearing and singing.

What is the relationship between the social life of music and its sounds, styles and structures? I am interested in music’s power to shape the social world, and in the ways that music takes on meaning in people’s lives. *Thumrī* is a rich field in which to ask these questions:

once sung and danced by courtesans in intimate concerts for elite male patrons, this genre is now a central component of contemporary North Indian classical music, enjoyed by audiences in India and internationally. As a result of this transformation, *thumrī* now evokes diverse sets of meanings for musicians and music-lovers: some hear in *thumrī* sonic traces of the now-extinct courtesan tradition, while others invest the genre with ideas about Hindu spirituality, selfless love, nationalism, femininity or everyday life in an imagined Indian rural past. More than any other Indian classical genre, the meanings of *thumrī*’s music are constantly being renegotiated by singers and music-lovers.

During my Research Fellowship at Emmanuel, I have investigated *thumrī* through both ethnographic research in India and also close analysis of the music. I show how it is enmeshed in broad social processes. Just as discussions of music and life intertwined with our singing at Sharma’s workshop in Italy, so, at a broader scale, the music of *thumrī* intersects with ideologies and imagined histories. As my research has revealed, acts of making and listening to *thumrī* are about much more than simply finding pleasure in beautiful music; rather, they are central to people’s social identities, with the power to shape how they experience and navigate the social world.

I am interested in music’s power to shape the social world, and in the ways that music takes on meaning in people’s lives

Chloe Alagband-Zadeh read music at Emmanuel 2003–06 and returned as a Research Fellow in 2013. She takes up a post at the University of Loughborough in the autumn



THE CHOREOGRAPHY OF DNA REPAIR

EKATERINA ZABOLOTNAYA
– GRADUATE STUDENT

I began my PhD in pharmacology at Cambridge in 2015, upon completion of my degree in pharmacy at the Ludwig Maximilian University of Munich. This opportunity would have not been possible without generous help from the Late 80s Fund and two other members of Emmanuel.

In 2009 it would have been impossible to imagine that I would pursue a scientific career, as I was going in an entirely different direction: dancing on ice. As a member of the German National Figure Skating Team, I competed in the Junior World Figure Skating Championships and was a prospective athlete for the 2014 Sochi Winter Olympics. However, my dancing partner suffered an irreparable knee injury and this ended my dream. Truly devastated, I had to have a new start. So I decided to switch focus and follow my interest in science and human health.

My PhD has become my own Olympic Games. My research project in the laboratory of Dr Robert Henderson (Emmanuel's Senior Tutor), focuses on elucidation of a DNA repair mechanism called homologous recombination (HR), which is essential to mend so-called DNA double-strand breaks (DSBs). DSBs are among the most cytotoxic forms of DNA damage. They can both occur accidentally during normal cell metabolism and also be introduced via exposure to exogenous



In 2009 it would have been impossible to imagine that I would pursue a scientific career, as I was going in an entirely different direction

agents such as ionising radiation (IR) or chemotherapeutic drugs, which are both used in treatment of cancer.

Failure to detect and repair DSBs is associated with cell death. Thus, selective inhibition of DNA repair by homologous recombination could also be used to kill cancer cells. However, despite studies in laboratories all over the world, there is not yet sufficient understanding of the details of the HR process to develop a suitable anti-cancer drug.

I'm using a modern fast-scanning atomic force microscope (FastScan AFM) and experimentally tractable model organisms to reconstruct the DNA repair mechanism step by step. This helps

us understand the protein complexes that are involved in each step of the process.

Within a short time, I have been able to capture exciting data about the activity of these complexes, which appear to go beyond the scope of previous studies. My work is leading towards a first-author publication in a high impact journal, and in September I will have an opportunity to present my discoveries to an expert audience at the sixth EU-US DNA Repair Meeting 2017 in Udine, Italy.

Seven years after my last performance on ice, I have found my way back to dancing, but without ice skates. In October 2016, I joined the Cambridge University Dancesport Team (CUdT) and had the honour to represent Cambridge in the Varsity Challenge Match against Oxford in May this year with my dance partner, Izaak Jephson from Jesus College. Cambridge won and we were nominated the Cambridge Couple of the Year 2017.

I can't express how grateful I am for the generosity of Emma members, who have made all of this possible.



INDIA, SRI LANKA AND TRANSNATIONAL POLITICS

SANDY MCCLEERY – RESEARCH STUDENT



Having completed my undergraduate degree in geography at Emmanuel in 2016, I am extraordinarily grateful to have been awarded a full postgraduate studentship, through the College’s research studentship fund and the incredible generosity of two Emma members. This has enabled me to follow up a long-standing interest in the Indian sub-continent through an MPhil in Modern South Asian Studies.

The cross-cutting and interdisciplinary nature of the course has allowed me to study widely. In Michaelmas term, I wrote an essay on India’s involvement in the early stages of the Sri Lankan civil war. Following the assassination of prime minister Rajiv Gandhi in 1991, New Delhi turned towards soft power in Sri Lanka, which contrasted significantly with the interventionism seen previously under the ‘Indira Doctrine’ of the 1980s.

This was followed by a paper concerning diasporic Hindutva and post-9/11 multiculturalism. I argued that the highly-racialised understanding of *all*

The College provides an incredibly stimulating environment, where one can develop personally and intellectually

Above: Sri Lankan Buddhist Raksha masks used in Kandyan Kolam rituals designed to ward off evil and representing the Cobra Demon (top, Naga); the Bird Demon (middle, Gurulu); and the Fire Demon (bottom, Ginidella)

South Asian bodies that followed the attacks on September 11 opened up a space in the diaspora for Hindu nationalism to become dangerously mainstream, thus attracting diasporic Hindus vexed by violence and hate speech directed towards them.

My dissertation, ‘Protest and performance in the Sri Lankan Tamil diaspora’, combined many of the themes of these earlier two pieces. I sought to deconstruct the notion of diaspora as a fixed and stable identity, by interrogating the related concept of long-distance nationalism. This required confronting questions concerning the very meaning of culture in an increasingly transnational world, of huge significance given widespread current unease about migration.

My supervisor was Edward Anderson, Smuts Research Fellow in Commonwealth Studies at the

Centre of South Asian Studies, and I was also guided by Emma Fellow Alex Jeffrey, a leading political geographer and my former undergraduate Director of Studies. I was delighted to receive a distinction in the MPhil and to share the prize for best overall performance.

As I reflect on my four years at Emmanuel and look forward to the future, I realise the College provides an incredibly stimulating environment, where one can develop personally and intellectually. This is largely a result of the welcoming surroundings and friendly atmosphere, whether that be in the Porters’ Lodge, the College bar, the Chapel Choir, or with the rugby team at Wilberforce Road. I am truly grateful for everything Emmanuel has given me, and I know that the friendships and memories I have made will stay with me forever.



HARVARD

JAKE NUNLEY – RECENT GRADUATE

A generous benefaction from the late Dr Herchel Smith enables us to send a few recent graduates to Harvard each year, to spend a year as Special Students. In addition, around five current undergraduates take part in the summer Program for Research in Science and Engineering. Those who go on either of these schemes have very rewarding and worthwhile times, as Jake Nunley, one of 2016–17’s Herchel Smith scholars, describes below.

I first became interested in planning whilst studying for my BA in geography at Cambridge. Keen to explore in more depth the ways in which planning practices and policies are shaped by their political and economic contexts, I applied for the Herchel Smith scholarship, which would enable me to study for a year as a Special Student at Harvard University.

I initially expected Harvard and Cambridge to be very similar, and so I was surprised to learn when I arrived that the two universities actually differ in many ways. It took me a while to get used to the very different mode of learning, which tends to be based on a fuller timetable of larger group teaching, and on continuous examination and reading assignments. The longer semesters – around 16 weeks – seemed to go on forever compared with Cambridge’s famously short and intensive eight-week terms! I wonder in hindsight whether my experience of Harvard would have been different had I lived with the undergraduates (as many previous Herchel Smith scholars have done), since instead I lived in the graduate dorms. This was a great decision, however, as I was able to meet and make friends with people from all ages and backgrounds, many of whom were also international students but studying for PhDs and Masters degrees.

The thing I enjoyed most about my time at Harvard, however, was being able to take an



Jim Harrison

It took me a while to get used to the very different mode of learning, which tends to be based on a fuller timetable of larger group teaching, and on continuous examination and reading assignments

unconventional range of graduate- and undergraduate-level courses. Indeed, taking courses ranging from land use law to the history and critical theory of American urban design, and from public and private development to international political economy, enabled me not only to gain a critical appreciation of American urbanism, but also to develop vital vocational skills such as real estate financial analysis and negotiation skills. These will be of immense value, given my plans to complete an MSc in international planning at UCL and to go on to pursue a professional career in the field.

As well as studying, the year at Harvard has also enabled me to travel around the US. I had some amazing experiences and highlights included exploring Maine and western

Massachusetts, and spending the winter break snowmobiling through Yellowstone National Park.

Overall, my year at Harvard has been an unforgettable and immensely rewarding and inspiring experience, which I know I will look back on with fond memories in the years to come.

The thing I enjoyed most about my time at Harvard, was being able to take an unconventional range of graduate- and undergraduate-level courses



NEPAL

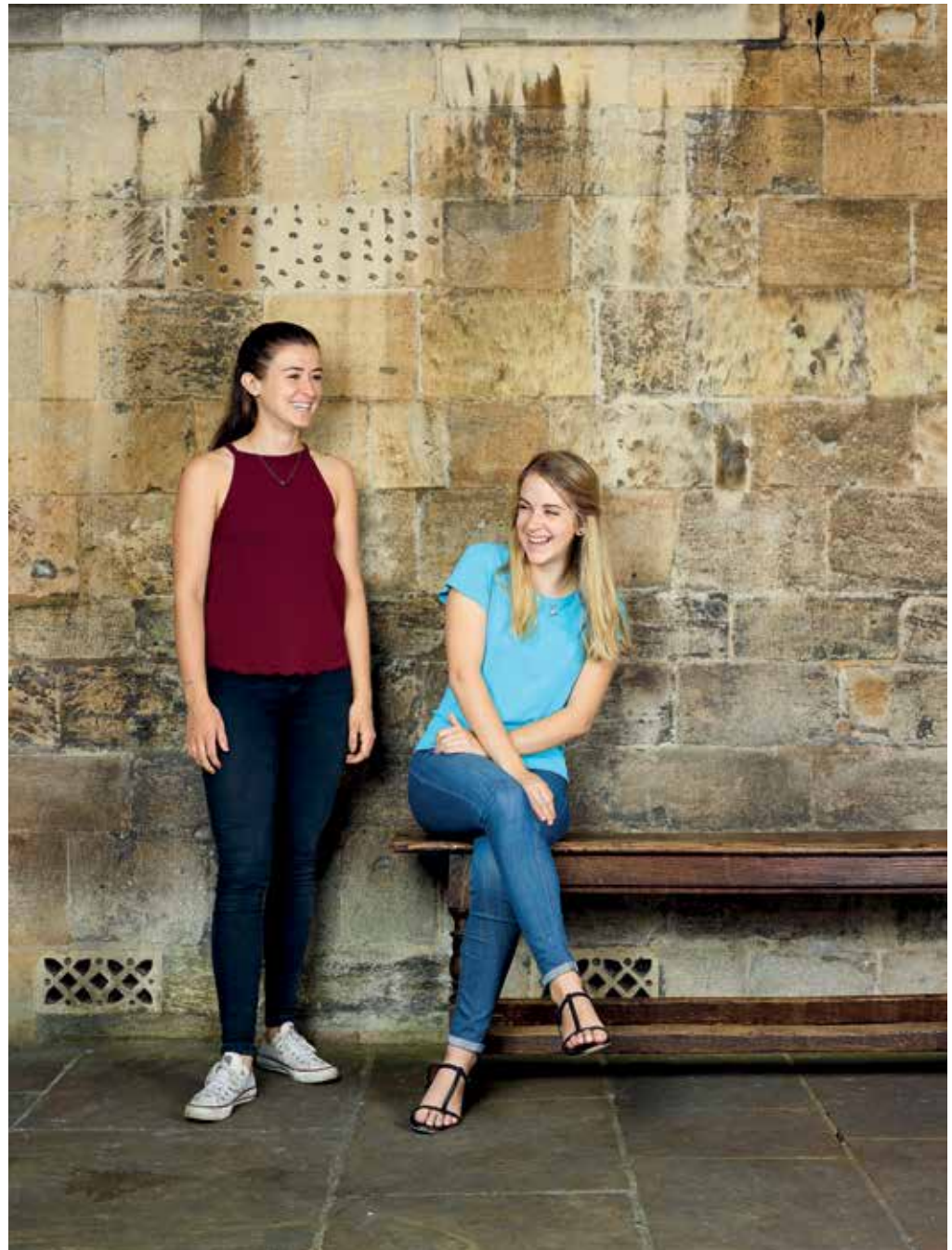
MEGAN ARMISHAW & ALICIA COOKE
– UNDERGRADUATES

Through the generosity of donors, Emmanuel supported ten undergraduates who wanted to work for charities during the summer of 2016. The projects were in places from Amman and Beijing to Wales and Zanzibar, and the students helped NGOs, taught English, worked on refugee and aid programmes, and led a children’s adventure camp. Two geographers, Megan (left) and Alicia (right), write below about their voluntary work.

Last summer the two of us were lucky enough to spend a month volunteering in remote community schools in rural Nepal, thanks to the amazing work of a local grassroots NGO called ‘HELP’ (Helambu Education and Livelihood Project). HELP is funded by the UK-based charity Mondo Challenge Foundation and it aims to improve the quality of education in government-run schools in the Helambu region (about 80 km from Kathmandu). Currently it works with about 35 schools and supports around 6000 children. Volunteers spend at least three weeks teaching English in one of HELP’s partner schools whilst living with a local ‘host’ family nearby. The opportunity to ‘live like a local’ is a massive part of the experience and allows volunteers to immerse themselves in Nepali culture.

Although we volunteered in different schools, our experiences were very similar. We both agreed that the highlight was meeting all the wonderful students we were lucky enough to teach. The attitude of them all – their warmth, generosity and enthusiasm – and their complete dedication to their studies was inspiring. They were polite and inquisitive, and tried to learn as much from us as they could, which made teaching them a pleasure. Little did they realise that they were teaching us just as much in return!

The role of volunteers is to work with the teachers and encourage them to approach teaching from a more interactive and engaging perspective, instead of monotonous textbook rote-learning. In this way, the programme provides long-term



benefits, by guiding teachers in ways of teaching they can continue when volunteers leave.

After our time in Nepal experiencing the difference that local organisations such as HELP can make, we were inspired to continue to promote its work in the UK, by taking on the role of co-presidents of the student society ‘CU HELP’, which recruits volunteers for the Nepali charity. We managed to recruit 30 volunteers, who will all be flying out to Nepal this summer to work in different schools in the region. We hope they learn as much as we did, and come back as enthused and inspired to promote the incredible work of HELP in the future.

The opportunity to ‘live like a local’ is a massive part of the experience and allows volunteers to immerse themselves in Nepali culture

More information about the work of HELP is available at www.help-nepal.org

THE COLLEGE BAR

NIAMH RYLE & TOBY LANE – STUDENT BAR MANAGERS



Emmanuel is currently home to one of two student-run bars in Cambridge; the South Court bar opened in 1966. This is not only enjoyed as a great privilege; it also fosters a really lovely atmosphere, and creates an opportunity for any Emma member to earn money and gain work experience alongside their degree.

The bar is a central social space in the College, and as managers we are always looking for new ways to use it to bring people together. Our predecessors, Jess Lister and Musab Shamekh, handed over to us at the first bar extension of Michaelmas term. Since then, Emma bar has hosted multiple University Challenge screenings, four further bar extensions ('Christmas at Hogwarts', '90's Pyjama Party', 'Shipwrecked' and 'End of the Year Party'), Ents [Entertainments] nights, quizzes, fundraising events for charities, hustings and the May Ball, where it was transformed into a giant ball pit. Throughout, we have received constant support from the fantastic team of workers, who wait at their computers every Thursday for the new rota, the people who organise many of our events, and the customers who spend their evenings here with us. We've had a blast, and look forward to electing two new managers come Michaelmas.

The bar is a central social space in the College, and as managers we are always looking for new ways to use it to bring people together



Architect's maquette of South Court. The JCR linked the two wings of the building

Emmanuel College Archive

Amanda Goode, the College Archivist, explains the history of the JCR and bar

In March 1955 the Governing Body discussed setting up a Junior Common Room. Lecture Rooms D and E above the Old Library (now the Old JCR), were agreed to be the the best location, partly because converting them would be relatively cheap (£2000 was the sum the College had in mind though in the end the work only cost £1700, most of which was contributed by an Emma member). Rules were approved and the JCR opened before the end of Michaelmas term 1955. The smaller inner room, formerly Lecture Room E, housed a bar, semi-separate from the main area: an ideal arrangement.

The desirability of establishing a JCR had been under discussion ‘for some time’. The inclusion of a bar, however, caused misgivings, for although College social life had always included a fair amount of alcohol – sherry parties were a staple of student hospitality – the setting up of what was, in effect, a student pub was another matter. The rules show the concerns: women were not to be admitted except by extraordinary decision of the Governing Body; opening hours were only 6pm to 9pm, excluding Sunday; no spirits were to be served; and drinks were not to be taken elsewhere. A student committee was set up to run the establishment. The College agreed to support the JCR financially for its first three years but not thereafter, and there was to be no subsidy from the Amalgamated Clubs.

The *College Magazine* for 1956–57 speculated that Members might think the new JCR was ‘quite an item of news’ and the bar ‘of even greater interest’. It waxed lyrical about the transformation of the dingy, depressing Lecture Rooms: ‘What once was dust, desks and chalk, is now all sweetness and light ... The furniture is bright, modern, but ... extremely comfortable, and those cynics who gave one particular breed of chair just six months to live have long since been proved wrong’. It emphasised that the JCR was more than a bar, for in addition to beer, sherry, port and cider it also provided soft drinks, coffee, newspapers and journals, and met the need for ‘a meeting place where it is possible to sit and talk without disturbing anyone else’. Payment was by a chit system, resulting in a spectacular improvement in the signatures of many students, since the barman ‘is as quick to spot an indecipherable scrawl as he is to pour a pint’.

Soon, though, it became evident that the attic location was inconvenient, so the architect designing South Court in the early 1960s, Tom



Photograph of Lecture Room D, taken c. 1934 during works to the Old Library

Emmanuel College Archive

Emma’s splendid new JCR was widely regarded as one of the best – if not *the* best – in the University

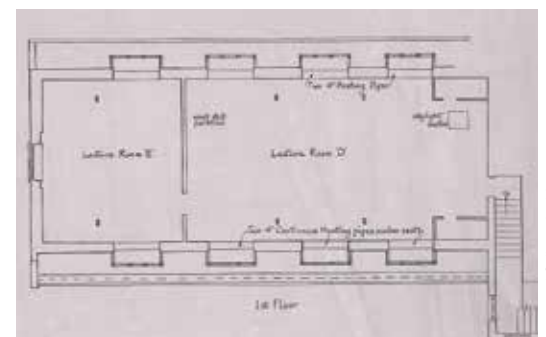
Hancock, was asked to incorporate a new JCR. As soon as the range opened in October 1966 the bar became ‘much more of a focal centre for social intercourse than the previous JCR’. Introducing billiards and darts proved popular, and sales ‘increased to such an extent that mechanical handling for crates and kegs proved necessary’. The ban on selling spirits was lifted in 1970 and modest refreshments were introduced: confectionary in 1972, and bread, cheese and pickled onions a year later. The JCR committee morphed into ECSU in January 1974, and its early minute books and newsletters reveal the importance the bar had assumed in students’ lives. Whatever the burning issues of the day might have been the JCR, and particularly the bar, was frequently a topic for debate.

There were difficulties, however: persistent non-return of glasses caused financial problems (and provided clear evidence that drinks were being taken out of the JCR in contravention of the rules). In 1975–76 ECSU agreed to revise the opening hours and promised to make ‘yet another attempt ... to keep back the hordes of barbarian invaders from other colleges’, but the problem of gate-crashers was never solved entirely satisfactorily. And the location of the JCR on the ground floor of an accommodation block in the

heart of the College caused a perennial problem of noise: the ‘musical entertainment’ that disturbed the peace throughout Sunday 28 October 1979 led to many complaints. On the whole, though, the early decades of the new JCR’s existence resulted in relatively few incidents serious enough to warrant official censure.

By the mid-1990s, however, action was clearly needed. Eventually a deputation to the Master, Lord St John of Fawsley, led to a fact-finding pub-crawl of other college JCRs and by the beginning of Michaelmas term 1996 the bar had been transformed. The room now had a semi-circular bar and stools, contemporary lighting, a longer mezzanine, bright chairs and tables, and an extension to house the games machines. Emma’s splendid new JCR was widely regarded as one of the best – if not *the* best – in the University.

Many Emma members no doubt cherish recollections of nights in the bar. Such heavy use takes a toll over the years, of course, and the room now needs another refurbishment.



Plan of Lecture Rooms D and E

Emmanuel College Archive

A MASTER PLAN FOR EMMANUEL

MIKE GROSS – BURSAR

Two years ago we drew up a Conservation Statement that captured Emmanuel's spirit of place: high academic achievement and aspirations, a beautiful, inspiring and well-cared-for site and a strong sense of community. The Statement described in detail our main site, identifying the significance and value of its many different elements. It was also designed to help us make good decisions about how and when we develop the College in future.

The exciting news that we have now agreed with the University to acquire Furness Lodge (the westernmost house in Park Terrace) and the adjoining car park, means we have a unique opportunity to shape Emma's next step forward. It offers us the chance to reorient and reorganise the southern end of the College, providing significant new facilities by transforming South Court, refurbishing Furness Lodge, and introducing a beautiful new building and green spaces. Our vision is as much about people as buildings, because it offers the chance to create a new welcoming space for all members of our community to use and enjoy.

We have had meetings of Fellows and students, and produced a draft statement of the College's needs for future accommodation and facilities.

We wish to:

- ♦ build new accommodation, with the aims of enabling all our undergraduates to live on our main site for three years, providing new and improved seminar and academic spaces and as a result, improving our graduate accommodation close to the main site
- ♦ enhance the spirit of Emma with beautiful new green spaces
- ♦ upgrade and reconfigure South Court to create a new, open social space including a coffee bar and informal seating areas where all members of our community will be welcome. This will form a new heart of college life, free from hierarchies and timetables, enhancing the spirit of Emma in a transformational way

- ♦ create a new student hub, providing much improved facilities for undergraduate, graduate and post-doctoral communities, including a new bar and a party room separate from residential areas
- ♦ provide a site for a new nursery for under 5s, adding much-needed extra provision to what the University can offer in Cambridge
- ♦ welcome around 100 new post-doctoral academics into our college community. They will be significant users of our new social spaces and the creative force behind a new academic programme of seminars and events

This year, we have drawn up a Master Plan covering the entire main site, to identify the opportunities for meeting these needs and how, where and when we can move forward. It considers the next 10-20 years and stresses the need to be flexible, so that we can adapt to changing circumstances. It looks at green and open spaces; accommodation; seminar, teaching and study spaces; social spaces; facilities for recreation and relaxation; cars and parking; and support and operational spaces.

We now have a once-in-a-generation opportunity to take a significant step forward in realising our ambitions for the future, both in terms of new and refurbished buildings, and developing our college as a community.

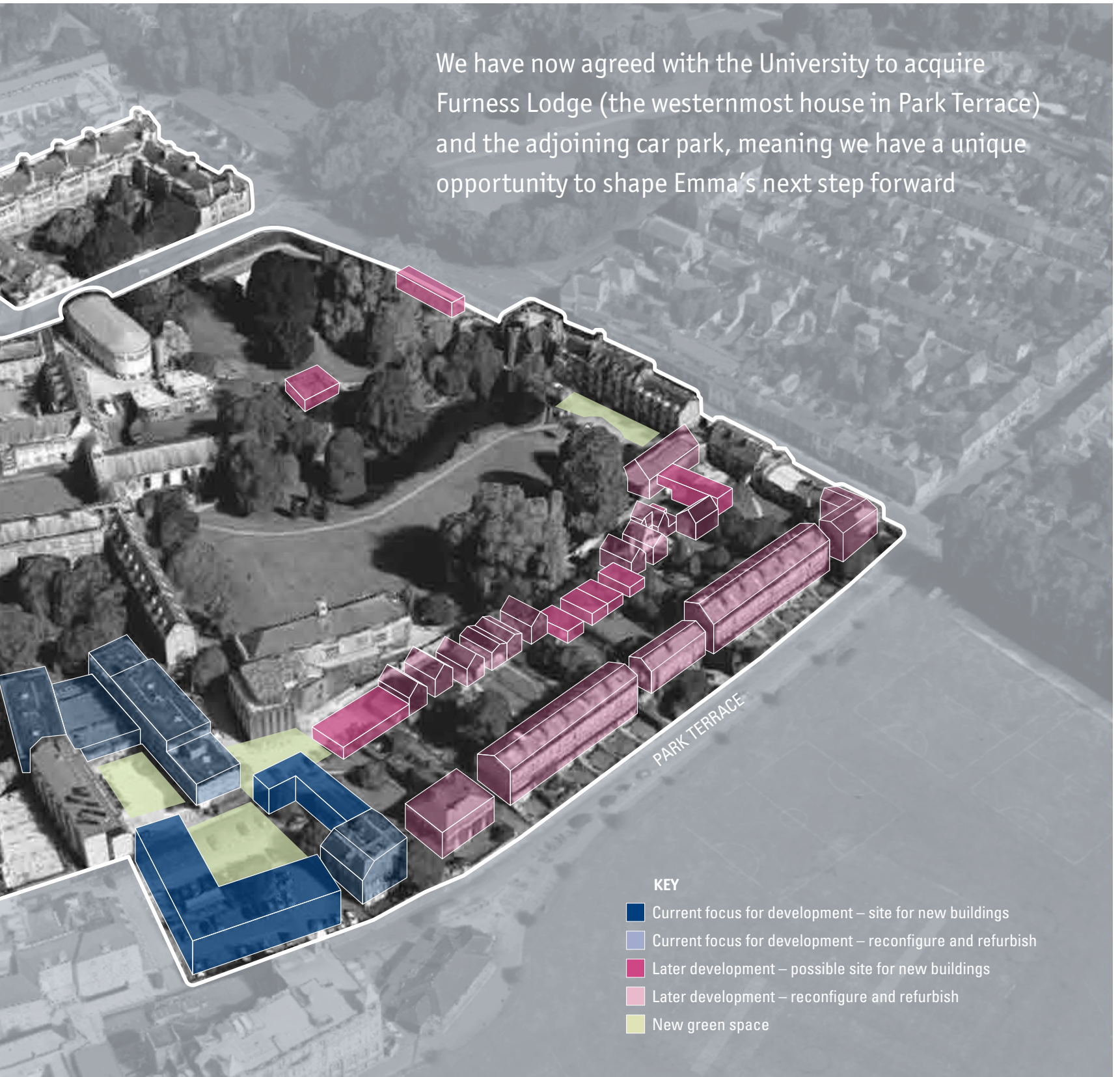
What do you think? We warmly welcome thoughts and suggestions about the ideas shown here: contact-development-office@emma.cam.ac.uk

This will form a new heart of college life, free from hierarchies and timetables, enhancing the spirit of Emma in a transformational way





We have now agreed with the University to acquire Furness Lodge (the westernmost house in Park Terrace) and the adjoining car park, meaning we have a unique opportunity to shape Emma's next step forward



KEY

- Current focus for development – site for new buildings
- Current focus for development – reconfigure and refurbish
- Later development – possible site for new buildings
- Later development – reconfigure and refurbish
- New green space

EMMA ACCESS

ROBERT HENDERSON – SENIOR TUTOR

Emmanuel has a long record of trying to improve access to higher education for those students who have strong academic potential, but whose backgrounds mean that they may not necessarily be in a good position to make an application to a prestigious university. Alone and in combination with other colleges and the University, we take part in numerous events to widen participation, which have multiplied in number and scope over the last 25 years.

Notably, because of Cambridge's Area Links Scheme, we have focussed particularly on our allocated areas, Sheffield and Essex. Much of the hard work is undertaken first by our schools liaison officers (of whom the most recent is Anita Magee, who has just left us for an exciting new job at the University of York) and second by our undergraduates, who each Easter vacation organise an 'Access Bus' to take them to schools in our linked areas. These activities may help to explain why we have had a sustained high level of applications over an extended period: in 1991 we received 326 applications for our approximately 145 undergraduate places while there were 791 applicants for places to start this coming October. The average number of applicants since 2000 is

729, and since then the lowest number was in 2008, when we received 652.

While these efforts have yielded a large number of high quality applicants from a wide range of backgrounds, there are still barriers preventing many students with high academic potential from applying to a prestigious university (and not just Cambridge), so we are embarking on a new scheme to try, in a small way, to address this underachievement. We have established a partnership with Villiers Park Educational Trust, an educational charity located just outside Cambridge. Villiers Park aims to deal with social inequality by running various courses and activities that will enhance the chances of students from low-income backgrounds obtaining places at high-ranking universities.

We will start this autumn with 18 high-ability Year 12 students from Thurrock in Essex who are from less advantaged backgrounds. They have been nominated by their teachers to take part in subject-specific residential courses at Villiers Park. One of the more striking aims of these courses is to bring together students with similar academic interests, of similar potential and from

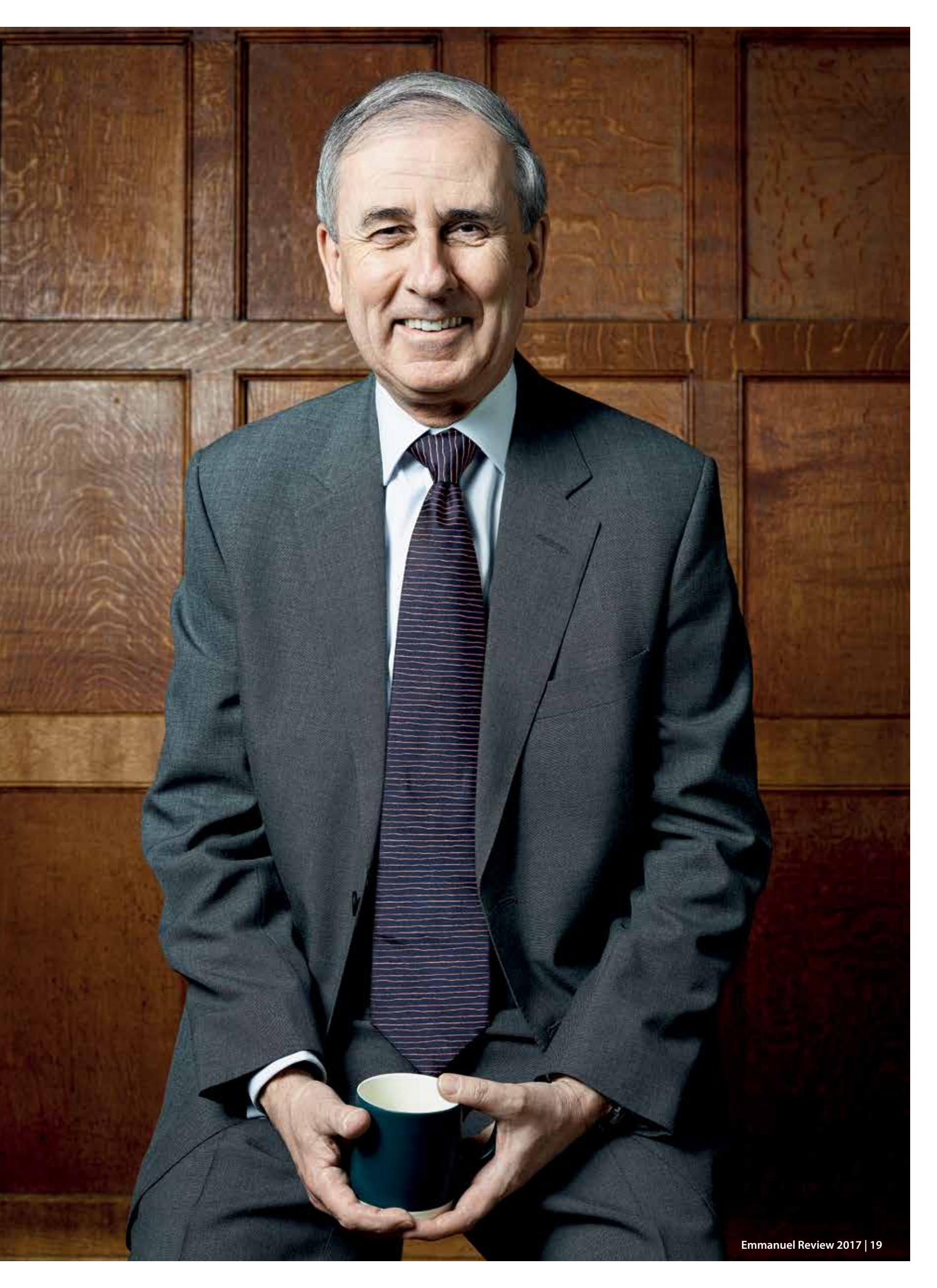
similar backgrounds, from all over the country. Villiers Park's records show that these students, who have strong potential to do well in A-levels and go on to a leading university, overwhelmingly achieve these outcomes. The process is complex, as people from Villiers Park meet senior school staff to explain the programmes and guide them in the selection of students.

We have recruited a second schools liaison officer to manage the College's participation with Villiers Park, who will also be trained by staff from the Trust. Our new member of staff will be able to help with building relationships with schools and, importantly, our undergraduate and graduate students will have the opportunity to mentor and tutor students on the Villiers Park courses. Each year, Emmanuel will fund the residential courses and associated costs for these 18 students. After the first year, we hope to extend the scheme for a similar number of students from Sheffield.

The aim is to help the students achieve their academic potential in a way that fits with their talents. Of course, this means there is no expectation that all (or even any) of the 18 will end up at Emmanuel, but we hope that by attending Villiers Park they will all improve their chances of finding a course and university that suits them.

Further information about Villiers Park Educational Trust can be found at www.villierspark.org.uk

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THANKING DONORS

Support from our Members means a great deal to the College and we say thank you in various ways:

All Benefactors

- ✦ are listed in the *Emmanuel Review*
- ✦ receive invitations to occasional events in College, including garden parties for donors
- ✦ are invited to an annual party in London for all donors in the previous year

All who pledge legacies to Emmanuel

- ✦ receive invitations to occasional events in College, including garden parties for donors

Master's Circle

£10 000 or more received

- ✦ are offered membership of the Master's Circle and invited to an annual dinner in College
- ✦ are offered membership of the Master's Circle and invited to an annual dinner in College
- ✦ are invited to the annual Gomes lecture and dinner

£100 000 or more received

- ✦ are offered membership of the Master's Circle and invited to an annual dinner in College
- ✦ are invited to the annual Gomes lecture and dinner
- ✦ are invited to a Fellows' Guest Night in May or December

Benefactor Bye-Fellows

£250 000 or more received

- ✦ receive invitations to a number of College events
- ✦ are able to dine at High Table on a number of occasions each year
- ✦ are listed in the *College Magazine* and the *Cambridge University Reporter*
- ✦ are admitted at a ceremony in the Parlour
- ✦ have their names recorded on a board in the Old Library

Benefactor Fellows

£1 000 000 or more received

- ✦ receive invitations to many College events
- ✦ are able to dine at High Table on several occasions each year
- ✦ are listed in the *College Magazine* and the *Cambridge University Reporter*
- ✦ are admitted at a ceremony in the Parlour
- ✦ have their names recorded on a board in the Old Library

Securing Emmanuel's Future



LEGACIES

There are several ways to include Emmanuel in your Will. Please ask the Development Office for a brochure giving suggested wordings and explaining about different types of bequest, and for information about how a legacy could reduce inheritance tax liability. We also suggest you consult your solicitor. We are very grateful to those who have already remembered the College in this way.

I HAVE SET AN *Acorn*, WHICH WHEN IT BECOMES AN *Oake*, GOD ALONE KNOWS WHAT WILL BE THE FRUIT THEREOF · SIR WALTER MILDMAY

LATE EIGHTIES FUND UPDATE

The 'Late Eighties Fund' was established in 2011 by Emma members who matriculated between 1984 and 1990, to help students suffering from financial hardship. In 2016-17 £35 000 was disbursed as follows:

£17 337 to meet the College's share of the Cambridge Bursaries for 33 students

£5000 towards the full funding of an MPhil in English for a student who was an undergraduate at Emmanuel

£5000 towards the full funding of a PhD student in pharmacology who is working with an Emmanuel Fellow (see page 10)

£4500 towards the costs of 52 visits from 23 schools and attended by 1536 pupils as part of our outreach activities

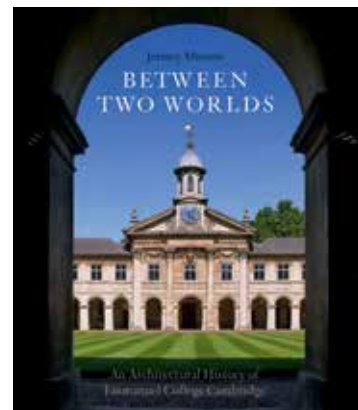
£1607 in grants to help with vacation placements for seven students

£1200 for a Teach First bursary

£268 to a student who needed to stay in college over the Easter vacation because there were no suitable living and working conditions at home

£100 to a student reading Asian & Middle Eastern languages towards travel costs for an interview in connection with the year abroad

NEW EMMA BOOKS

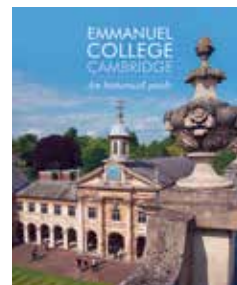


BETWEEN TWO WORLDS: An Architectural History of Emmanuel College Cambridge by Jeremy Musson

Jeremy Musson was part of the team that prepared the Conservation Statement for Emmanuel last year, and we are delighted that he has agreed to write an illustrated history of the College, with specially commissioned photographs by Will Pryce. Together they tell the story of the occupation of our site since the Dominicans arrived in the thirteenth century, the foundation of the College and then developments century by century up to the present day. They look at the delicate balance between continuity and change, the buildings, and the people who nurtured the characteristics that make Emmanuel special. Published by Scala, the book will be available in the autumn.

EMMANUEL COLLEGE: An Historical Guide

We have recently published a new historical guide to Emmanuel, written by our archivist Amanda Goode. There are many illustrations of Emma in the past, historic objects and contemporary views. After a brief history of the College, the guide



takes visitors round the site, pointing out buildings and features of particular interest.

www.emma.cam.ac.uk/merchandise



FUNDS RAISED Donations 1 June 2016 to 31 May 2017

| | |
|-----------------------------------|------------|
| Donations received and receivable | £2 723 080 |
| Gifts in kind ¹ | £130 390 |
| Legacies pledged | £181 967 |

¹ Hosting events in London and Hong Kong, gift of silver and portrait miniatures, fees not charged for managing part of the College's investment portfolio and for consultancy regarding fundraising

HARDSHIP FUNDS & RENT BURSARIES 2015-16

| |
|------------------------------------------------------|
| 187 grants |
| £179 354 awarded |
| £121 996 from hardship funds, balance from endowment |
| £17 to £8223 is the range of grant per person |

GRADUATE FUNDING 2015-16

| |
|-------------------------------------------------------------|
| £173 000 to enable 11 graduate students to come to Emmanuel |
|-------------------------------------------------------------|

FUNDS RECEIVED 1 June 2016 to 31 May 2017

| | |
|-------------------------------------------------|-------------------|
| Buildings, facilities & grounds | £65 437 |
| College future development | £903 247 |
| Library ¹ | £76 687 |
| Student activities ² | £22 062 |
| Student support, hardship & access ³ | £570 963 |
| Studentships & scholarships ⁴ | £891 143 |
| Teaching & research ⁵ | £21 928 |
| Total | £2 551 467 |

¹ Includes donations to the Rare Books fund

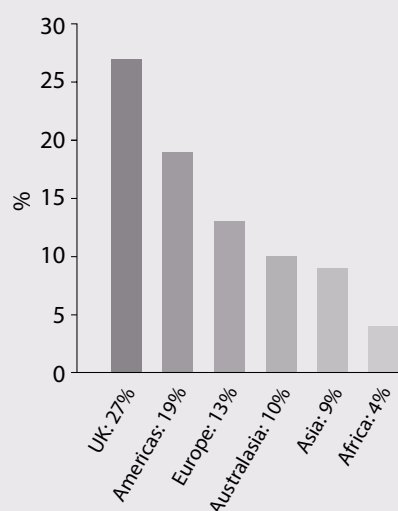
² Includes donations to the Emmanuel College Boat Club Association, for the Performing Arts Fund and for sporting facilities

³ Includes donations to support students with disabilities and support with tuition fees

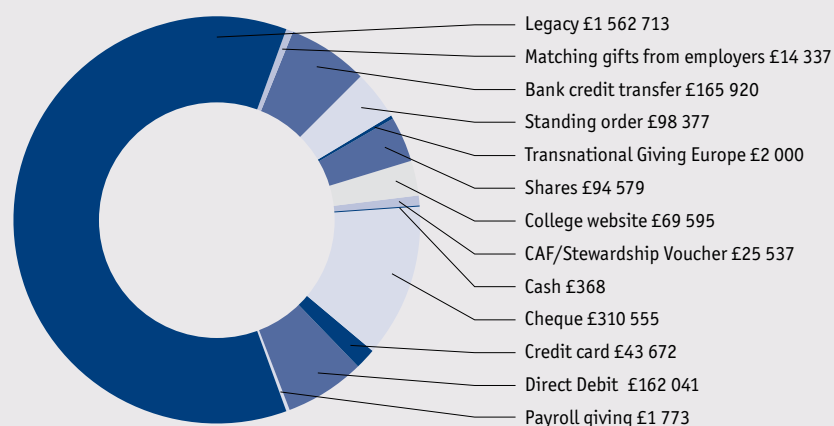
⁴ Includes Lord Northfield scholarship for a student from the West Indies, Derek Brewer research studentships and fund in medieval English

⁵ Includes Odgers and David Williams Funds to support the study of Law at Emmanuel

PARTICIPATION RATE BY REGION



SOURCES OF FUNDS RECEIVED 1 JUNE 2016 TO 31 MAY 2017



NUMBER OF GIFTS RECEIVED

(average donation for gifts under £10 000 is £575)

| | |
|-----------------------|-----|
| Up to £99 | 461 |
| £100-£249 | 605 |
| £250-£499 | 412 |
| £500-£999 | 167 |
| £1 000-£4 999 | 110 |
| £5 000-£9 999 | 18 |
| £10 000-£49 999 | 23 |
| £50 000-£99 999 | 3 |
| £100 000-£499 999 | 3 |
| £500 000-£999 999 | 3 |
| £1 000 000-£4 999 999 | 1 |

DONATING THROUGH CARD AID

It is possible to send Christmas cards (both hard copy and electronic) to support Emmanuel through Card Aid. Visit www.cardaid.co.uk for further details, or contact the Development Office if you have any questions. Please give our charity number, 1137456

TAX

Emmanuel College is a registered charity, number 1137456

The Development Office can advise on tax-deductible giving through, for example, Gift Aid, charity cheques, gifts of shares, payroll giving, legacies and charity beneficiaries on death from 'alternatively secured pensions'



All Emma members are members of the Emmanuel Society, which keeps them in touch with Emma students. Many members are keen to give careers advice, some through attending careers evenings in the College, others through the careers database on the College's website. Zoë (left) and Lucy (right) describe below one way in which the database (www.emma.cam.ac.uk/careers) helped both of them.

ZOË PLANT (2008)

I was a frequent user of the Cambridge and Emmanuel careers databases when I decided to pursue a career in publishing, a notoriously difficult industry to break into without contacts. The connections I made back then not only helped me to get my first job, but have proved to be immensely valuable and supportive throughout the three years I have been in publishing. I was therefore determined to 'pay it forward' and provide the benefit of my own experiences to Emma grads following me, who all have a lot to give to the industry. Lucy contacted me at just the right moment, and I was delighted not only to be able to help to give her a break, but also to have been able to find so easily such a brilliant candidate for a job.

LUCY TALBOT (2012)

When my first job after graduating, working at a small magazine, didn't work out, I decided to broaden my horizons and apply for roles in book publishing. The industry is notoriously difficult to enter, and all of my entry-level job applications got rejected off the bat. This was despite a 'no experience necessary' clause as there are simply so many candidates who have completed internships in publishing. Fed up, I checked Emmanuel's careers database to seek advice, and got in touch with Zoë. Over coffee she gave me practical advice and didn't mince her words: breaking into the industry would be tough. I was daunted, especially since I had just moved to London and had rent to pay. Through a stroke of good fortune, the position of assistant at her literary scouting agency was advertised the following day and I was invited for an interview.

Our job is to work closely with UK agencies and publishing houses to find books, normally in the process of being edited, to recommend (or not) to our clients: foreign publishers who acquire the titles to translate and publish in their parts of the world. The job is fast-paced and rewarding. Not only do I feel that I am putting my MML degree to good use, but I'm also enjoying myself immensely. Thank you Emma!



VISIT EMMA

- ✦ Dine at High Table (matric 2010 and earlier): www.emma.cam.ac.uk/dining or 0044 1223 762792 (free for Members, payment for a guest)
- ✦ Student guest rooms with shared facilities: www.emma.cam.ac.uk/guestrooms or 0044 1223 334255
- ✦ Private meetings, meals and conferences: conferences@emma.cam.ac.uk or 0044 1223 331978

EMMA ONLINE

We send a monthly e-news (we need your email address)

Emmanuel College Members (private group): www.facebook.com/groups/554901871329458

Emmanuel in America: www.facebook.com/groups/emmausa

Alumni of Emmanuel College

Follow EmmaCambridge

Follow EmmanuelCambridge



BRICKS AND MORTAR

DAVID HOBBS – BUILDINGS MANAGER



Emmanuel's Maintenance Department has a team of 11: carpenters, painters, electricians, a plumber, the Maintenance Manager Graeme Little (near right) and myself.

Over the past two years we have concentrated on preventative maintenance work, to ensure the College buildings are kept in good repair. We have many listed structures, which need to be looked after sympathetically.

A good example is the current project to repair walls, in particular those to the garden of the Master's Lodge, because the original lime mortar used for pointing has deteriorated and been washed away from joints. In addition, earlier repairs used cement mortar, which let water into brickwork. In cold weather this water froze and then thawed, causing blown and spalled bricks.

Finn O'Dowd (far right) rakes out the joints to a depth equivalent to twice the width of the mortar joint and then repoints with the original ratio of lime mortar to aggregates. This gives the wall the best chance of 'breathing', helps prolong its life and conserves an historic feature for the future.





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