



St Catherine's College Oxford

The Year

2016

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*Left: Barbara Hepworth's Archaean
Front Cover Image: Derek Davies*

Master's Report

I wrote in *The Year 2015* about my feeling that the College seemed to be riding the crest of a great wave – in some ways not a comfortable position to be in, given the inevitable outcome. However I am pleased to report that we continue to ride the surf.

Our undergraduates have achieved 46 Firsts out 128 sitting Finals, 36% compared to 34% last year, coupled with a total of 16 University Prizes. You may be surprised to learn that we are the largest college with 908 students on our books. The high percentage of Firsts in a College of this scale is a remarkable achievement, and a testament to the work of the Fellows, and the encouragement and diligence of the Academic Office.

The hallmark of the College though is an appetite to pursue other interests in parallel with academic travail. The growth in student numbers has resulted in a need to plan what may well be the last development within the College curtilage – a Graduate Centre comprising around 60 ensuite rooms, a new MCR and seminar rooms. Already £1.5m has been promised by way of fundraising, and the private placement of debt, together with further fundraising, will ensure that we should be in a position to complete the project by October 2019.



Guy Bell

The Master, Professor Roger Ainsworth

The hallmark of the College though is an appetite to pursue other interests in parallel with academic travail.

It was a good year for recognition of the research conducted by the Fellowship. Our 2016 London Party was kindly hosted by the Leathersellers' Livery Company in their new hall in St Helen's Place. Shortly before the party the news came through that **Professor Nigel Hitchin**, Honorary Fellow, and for 11 years the Leathersellers' Fellow in Mathematics here, had won the highly competitive Shaw International Prize in Mathematics, worth \$1.2m. Needless to say the Leathersellers felt they had placed a good bet 37 years earlier. The Shaw prize is considered by many to be on par with the Nobel prize, so the significance of this cannot be understated. Professor Hitchin received the award "for his fundamental, far-reaching and elegant contributions to geometry, representation theory and theoretical physics, which have had wide impact and are of lasting importance." He received the award in September in Hong Kong. Over the summer when I visited Dr Shaw Vee Meng (1953, Law and Honorary Fellow) in Singapore I was able to tell him of this happy outcome.

Professor Bill David, Fellow by Special Election, was elected Fellow of the Royal Society in April. Professor David is a distinguished leader in the experimental, computational and theoretical development of neutron and X-ray powder diffraction techniques, and has made substantial contributions across a broad range of materials research. He has pioneered the field of time-of-flight neutron powder diffraction and is a key figure in establishing powder diffraction as a routine technique for the structure determination of molecular compounds.

Professor Sudhir Anand, Emeritus Fellow, has been elected a Member of the US National Academy of Medicine, part of the US National Academy of Sciences. Sudhir is a development microeconomist who currently researches conceptual, measurement, and assessment issues concerning health, health systems, and health inequalities. He also investigates the theoretical and empirical links between income inequality, population health, and health inequality. He chaired the World Health Organisation's Scientific Peer Review Group on health systems performance assessment.

We were delighted to learn of the distinction which **Professor Ceri Peach's** research has brought to him – the award of the degree of DLitt. His main field of research has been in human migration and the racial segregation of minority groups, ethnic groups and religious groups in the United Kingdom, the United States and Western Europe.

And **Professor Eleanor Stride**, Fellow by Special Election and an expert in bioengineering, continues to ride her particular wave pioneering the use of nanobubbles to improve the delivery of chemotherapy drugs in the treatment of cancer. Out of 900 nominations, the Women's Engineering Society named her in the group of the top 50 women in Engineering, whilst *Red Magazine* included her in their Women of the Year.

A terrific year for the Fellowship indeed. But whilst there is much cause for celebration, there is unfortunately some sadness too. Three of our Fellowship passed away during

the year, all of whom were significant characters in the story of the College.

Mr Derek Davies, Founding Fellow and Law Tutor was known to generations of students and Fellows alike, and I am very sorry to have to report his passing in March. Derek came to St Catherine's Society in 1954 as the Law Tutor, having studied law at Aberystwyth and subsequently taken the BCI at New College. Derek's contribution to all aspects of College and University life was immense. As Alan Bullock's close confidant and lieutenant in the period running up to the founding of the College, Derek drafted the College's incorporating charter, together with the Statutes and By-laws. And as the College came into being, alongside very many other duties, he continued to play the role which he loved most – that of Law Tutor. A brilliant legal mind certainly, but also the pastoral aspects of his calling made a deep and lasting impression on his pupils. He remained in close contact with many of them throughout their careers, advising, cajouling, sympathising, and their tributes have reflected the high esteem in which he was held. A thanksgiving service for Derek was held at the New College chapel in October.

Professor Robert Mabro, Fellow by Special Election, died in August. He was the Founding Director of the Oxford Energy Seminar in 1979, based at St Catz, and founder of the Oxford Institute for Energy Studies formed in 1982. He was Director of the Institute until April 2003 and was made Honorary President in 2006. The College, through the late Wilfrid Knapp and others, was associated with the

We were delighted this year to learn of the distinction which Professor Ceri Peach's research has brought to him – the award of the degree of DLitt

Bullock used to liken the College to the river Cherwell – as you stare at the river, it is forever changing, and yet it always remain the same river Cherwell.

Institute from its inception, and in 2006 Robert was made a Fellow in formal recognition of all his hard work and this fruitful partnership. He helped shape the international debate about energy policy for half a century, and acted as a broker between OPEC and rivals to cut production and stabilise oil prices after the Asian financial crisis. He was seen by his colleagues as clever, trusted, witty and light-hearted, a brilliant diplomat who used the authority of his intellectual independence to bring conflicted parties together.

And **Professor Ahmed Zewail**, Honorary Fellow, died in August. Ahmed was a regular visitor from Caltech since his arrival in college as a Visiting Fellow in 1991. He was the sole winner of the 1999 Nobel Prize for Chemistry, and in presenting him to the King of Sweden Carl XVI Gustaf at the ceremony in Stockholm, Bengt Norden (Chalmers University of Technology) used the following words:

“Zewail’s use of the fast laser technique can be likened to Galileo’s use of his telescope, which he directed towards everything that lit up the vault of heaven. Zewail tried his femtosecond laser on literally everything that moved in the world of molecules. He turned his telescope towards the frontiers of science.”

Like Marie Curie, Dmitri Mendeleev, and Michael Faraday, Ahmed was one of the few scientists to hold honorary doctorates from both the Universities of Oxford and Cambridge.

Bullock used to liken the College to the river Cherwell – as you stare at the river, it is forever changing, and yet it always remain the same river Cherwell. It is the community as it exists in present times, coupled with

continuity provided by past and future, which forms the concept of a College. And our Alumni, of course, play an important part in providing that continuity.

Professor David Mabberley (1967, Botany) was made a Member of the Order of Australia (AM) in the 2016 Australia Day Honours List, in recognition of his significant contribution to Botanical Science.

And **Vivienne Cox (1977, Chemistry)** was awarded the CBE in the 2016 New Year Honours List, for services to the UK Economy and Sustainability.

Mark Simpson (2008, Music), virtuoso clarinettist, composer and former BBC Young Musician and BBC Proms/Guardian Young Composer of the Year, has written his first opera, *Pleasure*. It premiered in Leeds in April, and has been recently nominated for *The Times* Breakthrough Award, an award given at the South Bank Sky Arts Awards Ceremony recognising outstanding new British artists.

It was a highly successful year for St Catz on the sporting front and our Alumni continue to do us proud in this respect. No other Oxbridge college can boast two medals in this year’s Olympics, out of the total of 67 for Great Britain.

Andrew Triggs Hodge OBE (2004, Geography and the Environment), triple Olympic Gold Medallist and quadruple World Champion, took a gold medal in men’s coxed eights whilst **Zoe De Toledo (2010, Experimental Psychology)**, capped her fourth season as coxswain of the senior women’s eight by guiding them to a first-ever Olympic medal – silver at the Rio 2016 Games.

And **Mari Rabie (2010, Applied Statistics and Rhodes scholar)** finished eleventh in the Triathlon for the Republic of South Africa.

The College now funds a considerable number of travel awards each year for our students, aimed at stretching horizons and providing them with experiences in parallel to those they encounter in honing their academic skills. In order to receive funds, proposals must be prepared and assessed, and presentations given. To demonstrate that we are not talking about a trip on the train to Blackpool Sands, I give you two examples: **Angus Young (2014, Chemistry)** has cycled 4,000km this summer from Bishkek in Kyrgystan to Ulaanbaatar in Mongolia, tracing a route that took him through Kazakhstan and China. His route encompassed a wide range of different environments: for example, from the Pamir highway – the part of the ancient Silk Road which facilitated trade from Asia to Europe – to the Karakorum highway – the world's highest paved road, where he crossed several 5,000m high passes.

The second example relates to an Arctic expedition. In 1923, four undergraduates from Oxford University undertook an epic journey across 184 miles of Arctic terrain in Spitsbergen, part of the Svalbard archipelago, on ski and sled. This journey has captured the imagination of undergraduate **William Hartz (2013, Chemistry)** whom this summer, together with four other members of the University, has retraced the 1923 team's steps for the first time. William's intentions on the trip were to document the journey on film, providing a rich and recent source of images and film of this remote area.

Music and drama continue to be major areas of interest for our students, and we are very lucky to have appointed **Claude-Michel Schönberg** as the 2016, and 25th, Cameron Mackintosh Visiting Professor of Contemporary Theatre, succeeding Simon Russell-Beale. How fortunate we have been to have had this benefaction, coupled with Sir Cameron's continuing interest in, and enthusiasm for, helping in recruiting the right person to fulfil the role.

Claude-Michel has been a pioneering figure in contemporary musical theatre culture for over 30 years. His debut in musical theatre composition was in 1973 with the French musical *La Révolution Française* and, only one year later in 1974, he began work on his adaptation of Victor Hugo's novel *Les Misérables* with lyricist Alain Boublil. He has already made a flying start to his tenure here, giving 15 students the opportunity to attend three workshops with him each term, held in the Catz Music room. Claude-Michel has examined and advised upon samples of the students' music, which they sent to him in advance. This was a unique opportunity for any student interested in musical theatre, opera or soundtrack to learn both from a musical theatre master, and from their peers, and it will be fascinating to see what is borne out of these workshops.

As ever in my Master's Report I have only given you the merest snapshot of life in College this year. I hope you will agree that the pace is not slackening. I must conclude by thanking all my colleagues, staff, and Fellows, for the energy, diligence and commitment that they have demonstrated in furthering the aims of the College, to make St Catherine's the inspiring, innovating and inherently friendly environment it is for us all. ■

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The Cameron Mackintosh Visiting Professorship

In 1990, the Cameron Mackintosh Foundation endowed a Chair of Contemporary Theatre establishing a visiting professorship at the University, held with a Professional Fellowship at a College. It exists to encourage and promote the already enthusiastic interest at Oxford in the study and practice of contemporary theatre. St Catherine's College was delighted to be chosen as the College at which the Professorship was to be held. This year we welcomed our 25th Cameron Mackintosh Visiting Professor, **Claude-Michel Schönberg**. In addition to his public lecture, Claude-Michel has been facilitating student workshops. The University's Drama Officer, Alex Newton, reflects on the workshop series.

Oxford students have benefitted from this year's Cameron Mackintosh Visiting Professor: Claude-Michel Schönberg. Claude-Michel is best known for composing the music to West End and Broadway hits *Les Misérables* and *Miss Saigon*, but his interests lie far in each direction from musical theatre. He has been a singer, a record producer and a hit song writer.

As part of his tenure Claude-Michel has been extremely active in facilitating workshops for aspiring stage composers. He has hosted three such events, to which the response has been enthusiastic. Fifteen students were selected to take part from a large pool of applicants. Their works cover a broad range of genres, from a straight musical adaptation of



Guy Bell

Claude-Michel Schönberg

Tolstoy's *Anna Karenina* to a Kibuki-influenced soundtrack for Aeschylus' *The Furies*.

I have had the pleasure of sitting in on these workshops. Claude-Michel is thorough but fair in his criticism of the students' work. To my delight, and to the surprise of some attendees, he does not dwell on

the musical details but asks much more expansive questions. This is not to say that the workshops are musically blind – I think the assumption is that those present are all competent composers – but discourse tends towards the universal rather than the technical. A complaint about a misplaced cadence in one piece scales to a full discussion of how form and content interact.

Claude-Michel demands a lot from the class. One of his favourite probes, which I've since heard his students repeating, is "if you don't think it will be the next Beethoven's 9th then why are you writing it?". This line of questioning resounds with the rest of his teaching. His prompt for the first workshop was 'Choosing a Subject', which feels almost strangely contained compared to the scope of what Claude-Michel speaks about. The workshop could have easily been titled 'Why do we write musicals?'.

The students seem to understand that what Claude-Michel is teaching them is not so much musical theatre composition as storytelling. "Claude-Michel talks about your work, not from the perspective you've written it from, but from the perspective of someone sitting in the audience – how they feel about the music. He asks questions looking for what the point of what you've



The Master with Claude-Michel Schönberg

written is," one said to me. "I've completely changed how I approach writing music now, and I finished my original project so that I could start one with this new way – always asking why is this a musical and why am I writing it."

The Michaelmas sessions concluded with Claude-Michel handing out a translation of part of Fyodor Dostoyevsky's *The Brothers Karamazov*. In some ways this is simple homework; return with music to a set text. This is an experiment to see how the students will react to a given constraint. I look forward to seeing the results. ■

Claude-Michel gave his inaugural lecture, 'Creation and Immigration', in November 2016. The central theme of his lecture was that culture, which he described as the manifestation of all human achievement, has benefited from the free exchange of ideas that immigration has enabled over the generations. Innovation in the arts has been spurred on by exposure to different worldviews, and has stopped human creativity from stagnating.

You can watch the lecture and download the audio recording from the College website by visiting <http://bit.ly/year16lecture>

The Development Office

The year in review

Our St Catz community consists of over 10,000 people, who come from all corners of the globe, work in a variety of fields, and range in age from 17 to over 100. The role of the Development Office is to keep this diverse community of Fellows, Students, Alumni, Parents and Friends connected. We organise events around the world for Catz people, broadcast news about the College, and fundraise to preserve our high quality of education. We are delighted to review the 2015-2016 academic year and share some of the milestones that made it memorable.

Record-Breaking Generosity

The consistent and loyal support of our donors has always helped St Catz to thrive, even in uncertain times. We are pleased to announce that, in the last financial year, we had the 5th largest number of alumni donors amongst all Oxford colleges. More than 1,800 individuals made gifts, and we received over £2.8 million. This is a wonderful result for our young College, and we would like to express our deepest gratitude and appreciation to everyone

“We had the 5th largest number of alumni donors amongst all Oxford colleges...a wonderful result!”

who donated. With your involvement, we can be confident of going even further and surpassing 2,000 donors this year!

Among the many fantastic gifts, **Wilfred Wong's (m. 1976)** exceptional contribution deserves a special mention. For the third year running, he matched donations to St Catz, and thereby, encouraged others to give for the first time or renew their support. Wilfred significantly boosted our resources and played a vital role in making our community of alumni one of the most generous in Oxford.

All donations help us nurture our students and ensure that they thrive during their time here. Last year, we provided financial assistance on the basis of need to one in five of our undergraduates, and we offered more than 35 scholarships for our postgraduates. Our goal is to make sure that no one is deterred from coming to St Catz for financial reasons, and the aid we offer reduces the burdens on our students.

Gifts also assisted us in preserving our team of over 100 Tutors and Lecturers, who offer exemplary tutorial teaching and research issues such as environmental change, Middle East politics, and human disease. What's more, we housed more than 90% of undergraduates in College and laid plans for the construction of a Graduate Centre at St Catz. This exciting new building will accommodate many postgraduates on site, thereby protecting them from the difficulties of 'living out'.

Vibrant Connections at Events

Every year, we host a variety of events for our Fellows, Students, Alumni, Parents and Friends. These occasions provide a setting where individuals can reminisce with their contemporaries, make new connections, and keep up-to-date with College news. Last year, we welcomed close to 1,000 people to nearly 20 events, a good number of which were filled to capacity!

We are particularly grateful to **Anne Bevis Detwiler (m. 1988)**, for hosting a wonderful Drinks Reception in New York together with the Master. This is the second time that Anne has kindly facilitated a get-together for our North American community, and we would like to express our sincere thanks to her.

At the College, two dinners were held in the spring commemorating the retirement of Catz Fellows, **Professor Richard Parish** and **Professor Peter Franklin**. We were honoured to welcome their former students back for these special occasions, which celebrated the great impact these two scholars had on their subjects and on St Catz as a whole.

The summer began with our annual London Party, and we are very grateful to the Leathersellers' Company for hosting it in their beautiful Hall – a location made all the more poignant by this Company's long history of support for St Catz. This joyous event was followed by the Gaudy for 1983-1992 matriculands in College, at which more than 250 alumni reunited with old friends over dinner. We were also pleased to see Catz alumni and their children at our Family Day, which featured afternoon tea, a treasure hunt by College enigmatist **Chris Maslanka (1973, Physics)** and a science show by **Sarah Bearehell (1991, Biological Sciences)**.

2016 was sadly marked by the loss of our Emeritus and Founding Fellow, **Mr Derek Davies**. We ended the year with a poignant Service of Thanksgiving for his life, and we are honoured to be re-naming the Law Library after him. It was moving to see many of his former students and friends offering their condolences, commemorating his contributions, and donating to his Memorial Fund, which supports the teaching of Law at the College. Indeed, over £200,000 has now been raised at St Catz in Derek's name.

Catz on all Channels

Our publications, *CatzEye* and *The Year*, have been read by Catz people for decades. They provide vivid snapshots of our diverse College community and keep everyone informed of the latest news. As reported last year, the Michaelmas 2016 issue of *CatzEye* was the last to be printed. From 2017 onwards, this magazine will become an e-newsletter, delivered straight to your email inbox. We are looking forward to this next step and the possibilities it entails.

CatzEye 'going digital' is part of a broader expansion of our online communications. Our Facebook page (www.facebook.com/stcatz) and Twitter account (@St_Catz) offer a vibrant window into the College's past, present and future. Their audience keeps growing, and

if you have not done so, we hope you will join the over 4,600 people who have 'liked' us on Facebook and our 2,400 'followers' on Twitter. Our LinkedIn community (search: St Catherine's College, Oxford) has been expanding too, and we also have an Instagram account (@stcatzoxford), which features beautiful pictures of College life.

Permission to Stay in Contact

Finally, we would like to take this opportunity to highlight an important challenge St Catz is facing. As you may be aware, significant changes in the Law, owing to the General Data Protection Regulation (GDPR), could prevent us from contacting you when they take effect. This means that, unless we have your explicit permission, we will not be able to send you *CatzEye* and *The Year*, invite you to our events, or provide you with the opportunity to support the College.

If you have not done so yet, we would be grateful if you could give us permission to contact you by filling in a short form on the College website at www.stcatz.ox.ac.uk/contact-permission

We hope that you will take a few minutes to enable us to stay in touch with you. We value all of the members of our diverse community, and we would be sorry to lose contact.

If you have any questions, you can reach us by phone on +44 (0)1865 281591 or by e-mail at development.office@stcatz.ox.ac.uk ■

"We would be grateful if you could give us permission to contact you by going to: www.stcatz.ox.ac.uk/contact-permission"

Centenary of the Battle of the Somme

2016 marked the 100th anniversary of the Battle of the Somme. The battle has become infamous in the annals of European history; between 1 July and 18 November 1916, more than a million men were killed or wounded. The University marked this most sombre of anniversaries with events, memorials and research into the lives of the men from the University who lost their lives during the offensive. The Delegacy of Non-Collegiate Students, as it was then, was not immune to the tragedies of this battle. The College's Development Assistant, Aileen Brennan, focusses on two of the six individuals who belonged to the Delegacy who fought and died at the Somme.

Captain Tom Baker

Tom Baker was local to Oxfordshire and came up to Oxford in Michaelmas 1898 at only 16 years of age. The son of Frederick Steane Baker, a baker and corn dealer from Woodstock, he was an example of how students from working class backgrounds



Lincolnshire County Council

could attend the University as part of the Delegacy. He left Oxford with his BA, and in 1901 he was living on Holywell Street with his widowed mother, herself now working as a baker and confectioner, and his seven other siblings where he worked as an Assistant School Teacher. He went on to become Master of Wolverhampton Grammar School in 1910. When war broke out, Tom was living in Hull, working at Hymer's College teaching modern languages. He was amongst the first to join the ranks in September 1914.

He took up a commission with the 10th Lincolnshire Regiment, known as the 'Grimsby Chums'. The pals battalion was one of Kitchener's Army, a group of volunteers from in around Grimsby who signed up in a patriot fervour with their friends, workmates and family. They arrived in France at the beginning of 1916 and their first action was to be the Battle of the Somme. The Grimsby Chums were part of the first wave attacking the fortified village of La Boisselle. The plan of action was for a mine, the Lochnager mine, to detonate at 7.28am beneath the German trenches allowing for the infantry to attack at 7.30am. At this time, the mine was the largest ever detonated. The sound of the

blast, said by some to have been heard from London, would have been unimaginable for the troops. Unfortunately, the mine was short of the German lines and left a two-minute gap which allowed the Germans time to prepare their machine guns. Whilst the Chums rushed forward to occupy the huge crater left from the mine, the human loss of life was catastrophic. Of the 1,000 men in the battalion, 502 were injured or killed that day. 19,240 men of the British Army died on what was then the bloodiest day in the history of the British Army. It was here that Captain Tom Baker, leading the 'C' company, lost his life.

His Colonel wrote of him "He was the best type of British Officer, his first thoughts always being for his men; they thought all the world of him." He is buried at the Bapaume Post Military Cemetery in Albert. His brother, Frank, also died in action in the September and is buried in Montauban-de-Picardie, less than eight miles away.

Second Lieutenant George Stuart Unwin

Local to Hathersage in Derbyshire, George was the son of Isaac Unwin, a blacksmith. He worked as a solicitor's clerk before coming up to Oxford aged 25. Unwin matriculated in



Imperial War Museum

Troops passing Lochnager Crater, 1916

Michaelmas of 1914, when the call to war was growing strong for those at Oxford. He joined his local Nottinghamshire and Derbyshire Regiment, known to most as the Sherwood Foresters, in December of 1914.

Second Lieutenant Unwin was one of a whole host of junior officers who were quickly recruited from the University and, sadly, lived generally short lives. Of the 495 matriculands from the University in 1914 who joined up, a quarter would not live to see the end of the war. One of the last correspondences still surviving from George is a letter to the family

of a soldier missing in action. On 23 July he wrote "I have made enquiries about your son, and find that he was in the attack about three weeks ago. I am very sorry to say he has been missing since then. Only a few of our men were taken prisoner and I am afraid we cannot hold out much hope. He was a valuable NCO and is greatly missed by his company." He himself was to die a week later, on 30 July aged 27.

George is buried in Becourt Military Cemetery in France, but his name lies on memorials in both Oxford and Hathersage, and most touchingly, on the gravestone of his parents.

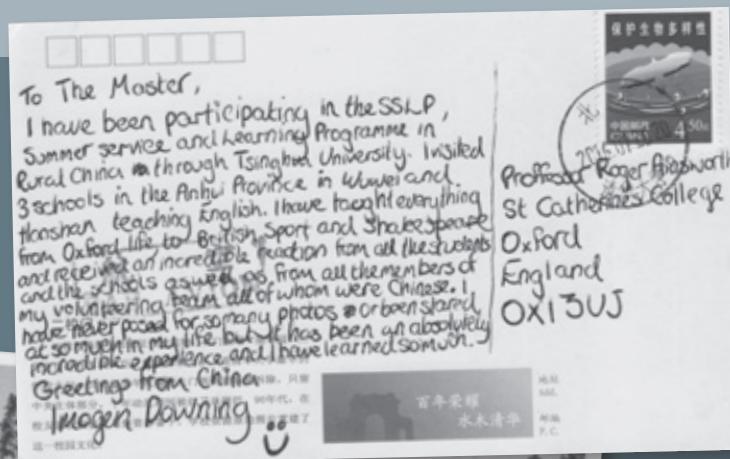


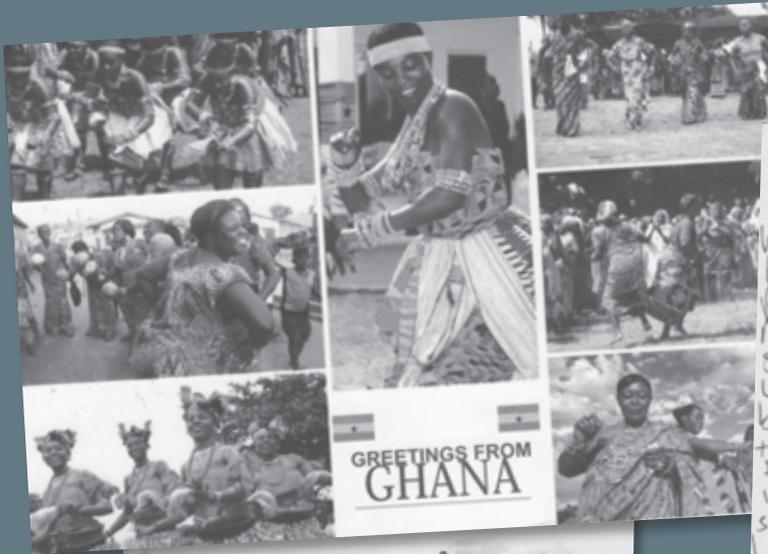
In 1920, the University published the 'Roll of Service', a list containing the names of all 14,562 members of the University who served in the British Armed Forces during the War. I end this article with a particularly moving section, which seems relevant even today, 100 years later.

"We grope for some sign or token from them, and here and there, far away from the graves where they lie, we find it. Their virtue, which was a live thing, cannot be engraved on stone or printed in a book, but it still is here, to be sought for among other live things... The names here printed in thick type have appeared in many Oxford lists before this. We print them now, with reverence and affection, for the last time, in this final Roll, as a tribute from the University to the dearest of her sons."

Postcards to the Master

Every year the College Travel Awards are granted to students who plan, organise and undertake expeditions around the globe. Whether undertaking charitable work or fulfilling lifelong ambitions to visit other cultures, all the students who take part find their horizons broadened and their educational experience enriched. This year 29 students were given Travel Awards – to destinations such as Morocco, China, Norway, and Ghana. Here are four of the many postcards the Master received.





Dear Roger

I'm writing as I leave Ghana having had a fantastic time here. My experience of Ghanaian Psychology has been eye opening. More so because it was more similar to the UK I expected - unpolished + underfunded, but with brilliant doctors, nurses + healthcare workers dedicated to the cause. I'm feeling inspired to return to my home land soon to work in the field once I can. Thanks so much for the opportunity. Sincerely,
Selabi

Y A 170
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MAROC
 VILLES MÉRIDIENALES

Dear Roger

Greetings from Marrakech!
 Apart from surviving the close to 40°C heat, my time in Marrakech has been not about on adventures and stories! From navigating the windy streets of the Medina (filled with endless twists and turns in the souks/bazaar) to marvelling at the beautiful architecture of the palaces and mosques, it's been a wonderful and thrilling journey and I am very grateful to St Cate for the support from the Travel Awards for allowing this to happen!

15-6
 2016
 MAROC

Roger Ainsworth
 St Catherine's
 College
 Manor Road
 Oxford, OX1 3UJ
 UNITED KINGDOM



With gratitude & best wishes, Alice Wang (2016)

Sports and Societies Review 2016

St Catherine's has a thriving culture of extra-curricular activities ranging from sports to arts to literature to science. Naomi Kelly (2015, Geography), the JCR Clubs and Societies Representative, shares some of the highlights from 2016.

St Catz has continued to have an ever-thriving sporting and cultural life, helping the College to achieve the tenth position in the Norrington table. This year has also seen Catz excel in relation to Cuppers successes, and a large number of students represent the College and University sports teams, with a number of members of the College achieving full Blues.

Catz also offers a wide variety of cultural societies that are extremely popular with the students. These clubs allow students to explore an array of extra-curricular interests alongside their studies, enriching the diversity and richness of College life. These societies are continually being founded, with Stargazing, Catz-22 (St Catherine's Literary Society), Life Drawing and Catz Independent & International Film Society all being created this year by current students.

Catz also has a wide range of academic societies, with the Geographical Society having organised events with speakers such as Danny Dorling, who spoke on inequalities in the UK population.

These clubs allow students to explore an array of extra-curricular interests alongside their studies, enriching the diversity and richness of College life.

Catz Computer Science Society at the Northwest Europe Computer Programming contest

Founded this year, the Catz Computer Science Society (CCSS) sent teams to compete in the UK and Ireland Programming Competition and Northwestern Europe Regional Programming Contest. The teams' strong performances have secured CCSS a place in the World Finals of the ACM International Collegiate Programming Contest in South Dakota in May 2017!

The third week of Trinity term saw the return of the Catz Arts Festival. Launched with a hilarious comedy night, the week was packed full of free events for both Catz and out-of-college students to attend. Catz hosted an exhibition of photographer Juliana Kusama's work, life drawing classes, secrets of Catz tour, music and records nights, and culminated in the immersive Film in the Woods behind the college. The Arts week was extremely popular with everyone finding at least one event that interested them and the Arts Club were quick to thank the College for all the support in helping to fund and



host the week. The Arts Club were also able to provide funding to multiple students, in their pursuits in installations, music or on stage.

The College continues to excel in its sporting achievements with sport retaining its status as one of the College's main strengths. 2016 saw the formation of many new College sports clubs: Croquet, Ultimate Frisbee, Table Tennis, and Go-Karting. Catz is also host to a new Badminton Club which is attended by more than 40 people each week.

Many Catz teams had winning seasons, gaining first place in their respective leagues: Basketball; Rugby, who won division two; Netball, who won division one; and Women's Football, who won division one. The Netball team also came third in Cuppers, winning the third/fourth play-off after losing out to Keble, eventual winners, in their semi-final.

The Women's Cricket team won Cuppers not losing a match all day and coming up against a tough Brasenose opposition in the final. The Women's Hockey team placed second in Cuppers, only losing 1-0 to winners Quildas (Queen's and St Hilda's).

Both the Men's Football and Hockey teams placed second in their leagues, football in division one, and hockey in division two.

Catz Rowers had four boats compete in Torpids early in Trinity term and all four gained first place in their individual rankings. The St Catherine's College Boat Club were also able to have a team compete in the Head of



Summer Eights W1 in action

St Catherine's continues to excel in its sporting achievements with sport retaining its status as one of the College's main strengths.

the River Race in London, which was the first time in 15 years that they have been able to do so.

Catz is also host to a talented dance, drama and music community. There have been many Catz students involved in university plays and musicals, with some students even staging their own play in Hilary Term 2017, *Nightingale & the Rose*. The College had a record number of representatives at the Edinburgh Fringe Festival, many as members of Oxford University Drama Society. The JCR has been host to many music nights, with open mic nights encouraging students to share their talents with the rest of College.

Finally, the College's undergraduates voted for the Catz Sports and Arts Personalities of the Year 2016. Nathan Caldecott (2014, Fine Art) received the Arts Personality of the Year award for his involvement in Catz Arts Week and design of the upcoming Catz Ball, as well as his installation for Billy Lucas's Rothko Chapel piece. Sian Kelly (2014, Spanish and Linguistics) was awarded the Sports Personality of the Year award for competing on both the cricket and football university sides in their Varsities, as well as being an integral member in both of these sports' College teams. ■



The Varsity Matches

It's an annual fixture that plays on the traditional rivalry between Oxford and 'another place'. It's also a celebration of sporting achievement at the highest level within the University. This year Catz had three representatives at The Varsity Matches - Matt Geiger (2014, Geography), Katarina Martinovic (2014, Physics) and Fergus Taylor (2015, Continuing Education). Among the spectators was Catz rugby hero Phil de Glanville (1990, Social Studies). We took some time away from the games to chat about his own Varsity experience and life since then...

When did you first develop and interest in the game?

From an early age I was interested in all sports – cricket, hockey and football, as well as rugby, and played a lot of them. As a child my father played for Rosslyn Park, in the days before leagues, when they were one of the dominant clubs in the country. So usually on a Saturday I was kicking a ball around behind the stand, waiting for my packet of crisps and lemonade as my treat! That's where it began for me.

Did you have any idea then that rugby would play such a big role in your life?

Absolutely not! And actually I never played any representative rugby until quite late. It wasn't until my

*Above: Phil de Glanville,
Katarina Martinovic and
Stephen Barclay*

late teens when I started playing for county and divisional teams – prior to that I was just playing for school. I really had no idea it would have such a huge influence on my life at that stage. Physically I grew late, so I was always one of the smallest on the pitch. And also because I played other sports too, I didn't really stand out – I played cricket to quite a high standard as well. Rugby didn't really become a serious option until after school when I went to play in Australia for a year, and at that point people around me commented “you're not too bad son” in the classic Aussie accent! That was probably the springboard as far as rugby is concerned. I came back from Australia and went to Durham University as an economics and politics undergrad and went straight into the first team, and it took off from there. After Durham I came to Oxford as a postgrad, with Wilfred Knapp as my tutor in social sciences and a very famous American tech entrepreneur Trevor Traina (m. 1990) as my fellow student.

While I was at Oxford I spent time with Neil Chugani (1987, Geography) who was the cox for the blues rowing squad and also Matthew Pinsent (1989, Geography) who was there around the same time. We would compare notes on commitment levels! It was a good group of people to be around. Around the same time I had joined Bath Rugby and I'd go down from Oxford and train there too. My uncle loaned me a car so I could do the journey twice a week.

That sounds quite full on. How did you manage the work/life/study balance?

If you ask any committed sportsperson they will tell you that is the hardest thing – balancing it all! You don't

get too many quiet moments. It was enjoyable, and it's different when you're a postgrad – there's a different mentality, particularly compared to when you're a first year undergraduate. You've grown up a bit. I lived in hall at Catz, and there was a group of seven or eight guys doing the same course scattered throughout the University – an eclectic group of people but we really bonded and that was a good support.

We had three Catz students at this year's Varsity matches – Matt Geiger, Katarina Martinovic and Fergus Taylor. What advice would you give to them and others who find themselves representing the University?

It is a truly unique experience. Normally you'd be playing in leagues and other games that you play in to get through to the final, but with the Varsity you spend three months preparing for just one match. My advice is treasure the experience and enjoy it. For most people it's their first time playing at Twickenham – that in itself is a great experience. It goes in a bit of a blur – you're full of adrenaline and time always goes so fast. It's a challenge getting into the game quickly, and playing it tactically and technically the way you want to. You can get tense and make mistakes, so it's all about concentration. The side that can establish their own pattern in the first ten minutes will do well in the game.

For the few days before the match it's pretty much all you can think about. I remember the weekend before my Varsity game – it had snowed, which really hampered training. I was staying with a couple of the other guys while we were preparing for the game, and

If you ask any committed sportsperson they will tell you that is the hardest thing - balancing it all! You don't get too many quiet moments.

I slipped on the footpath on the way into the house. For a second I thought I'd twisted my ankle! That was a pretty scary moment, thinking I'd injured myself three days before the match. Fortunately it was okay! There's a lot of pressure. But it's a great experience – not many people get to represent Oxford, whatever sport they play, so it's a privilege.

Your career has taken a different direction now, what is it that you're up to?

I work for Hanover Fox International in 'executive search', which most people would recognise as head-hunting. I think I've had four different careers – all connected somehow through opportunities I've had and people I've met. My professional rugby career was about five years, after working in sales and marketing for a manufacturing company when I left Oxford. Then I moved on to an IT consultancy firm which I worked for part-time while rugby was professional, before joining Sport England for seven years. After that I was Hartpury College as Director of Elite Sport and then into my current role. It's been a varied career – not for me the one job!

What were your reflections on the matches?

The women's team defended magnificently against Cambridge and you don't see too many 3-0 scorelines that are as exciting as this one was. The men made a few mistakes in the first half, but the game came to life in the second half and it ended up being a nail biter down to the last play. It's a shame that the 'other team' won. On reflection they deserved it however.

From the player's perspective...



FERGUS TAYLOR,

Men's Captain

I can't remember not playing rugby. I used to play for my local side, and I've played in every age group – and to be honest I wasn't even that good a player at school!

I remember being in the C-team for under 14s, but I still really enjoyed it, but worked hard and obviously got better! I decided to come to St Catherine's to study a Master's degree in Literature and Arts because it's a really good course here. I think it's good to balance academic studies with other stuff so I got involved with the rugby club. I fell in love with the club as soon as I started.

I've played over 30 games for the blues - I had some injury problems in my first year so was out for six weeks, but I've played every game I've been fit for. I allowed my name to be put forward for Captain and I was elected by the Varsity squad. Training was really good, and I think we prepared well. We had a pre-season tour – we got a lot covered and played some good opposition. I think as a team we were the fittest we've been for a few years. Things just didn't go our way at the match itself.

We played well, but for the first 20 minutes we didn't get anything for it. We gained points but we also gave some away, and ended up losing by five points. It's frustrating because I genuinely feel the first 40 minutes were the most comfortable of any Varsity match I've been a part of, and I've been in a game before when we won 43-6! I remember thinking 'we'll be okay, we're playing some good rugby, it will come'. Unfortunately when it did come it was late in the first half. I looked up at the scoreboard at half time and I think that got to us. We played well in the second half but it wasn't enough.

This was my third Varsity match, and though it didn't go the way we wanted, playing at Twickenham was still amazing. It's an incredible pitch and there's something about the ground which resonates with the history of the game. Now it's over I'm not sure what's next – so much of my life this year has been preparing for the game and doing all the other things the Captain is responsible for – organising training, making decisions about the club and looking out for the other players. It's like looking after a family, so it's a big part of your life.

Sport is essential for leading a balanced life at University. Most of the things I've learned about myself and my potential have come through sport, team sport in particular. I think a lot of people have some fear about playing sport for Oxford, especially Blues sport, because it takes a lot of commitment and dedication. But my experience has been that the busier I am with rugby the more motivated I feel about the academic side. All in all it's been a great experience.





Rosie Finn

**KATARINA MARTINOVIC**

Rugby is not very popular in my home country, Montenegro, so I decided to use the opportunity to try it out at university. I joined the team in Michaelmas Term; I turned up to the first training session without knowing any of the rules. The club was welcoming from the start and I was able to participate in rugby matches within the first couple of weeks. After playing for the second team at the start of the term, I was asked to play a few games for the first team and was later picked for the Varsity Squad.

Getting thrown into the deep end really allows you to learn fast. Throughout training I could see people getting more comfortable with tackling just after a few sessions, and soon enough no one was holding back. After our first match things started to make more sense and I fully appreciated everything we did in training. Our coaches are brilliant and they inspire us to get involved and invest our hearts fully into this amazing sport. Besides regular training twice a week, there are strength and conditioning sessions twice a week that significantly help our fitness.

Actually being at Twickenham was surreal! We had a tour of the stadium the day before the Varsity Match and I felt extremely honoured to be a part of something so special. The build up to the match indicated that it is all bigger than us; we play for each other but also for the generations of women who had worn the dark blue shirt before us. Everyone had worked so hard towards this event and to see it all pay off was the most rewarding thing.

I am often told I am too small for rugby, but there is so much more to rugby than size: speed, technique, thinking fast on your feet. The stereotypes are most easily broken by seeing examples of women who play rugby. Having someone from your College who plays it and enjoys it is likely to inspire you to try it out, be it only for a day. I hope to set an example to Catz girls who are unsure about joining because they don't think they are the rugby type. There is no rugby type! You can do anything with the right amount of enthusiasm. ■



Rosie Finn

Finals Results 2016

Biological Sciences

Katie Burns - II (i)
 Susannah Gold - I
 Isaac Kitchen-Smith - I
 Holly Sadler - I
 Jessica Saville - II (i)
 Charlotte Stokes - II (i)
 Natsumi Sugimura - II (i)
 Jae Won Suh - I

Biomedical Sciences

Morio Hamada - I
 Hannah Partington - II (i)
 Charlotte Redmond - II (i)

Chemistry (MChem)

Nicole Evans - I
 Michael Jones - I
 Christopher Mason - I
 Benjamin Saward - II (i)
 Tamara Shaw - II (i)
 Matthew Short - II (i)

Computer Science (BA)

Cameron Alsop - II (ii)

Computer Science (MCompSci)

Kristian Kostadinov - II (i)

Economics & Management

Nguyet Anh Nguyen - I

Engineering Science (MEng)

Samuel Bainbridge - II (i)
 Nicholas Cooper - II (i)
 John Hendrick - II (i)
 William Honey - I
 Alex Maxwell-Keys - I
 Owen Morgan - II (i)
 Nikul Vadgama - I

English Language & Literature

Thomas Bain - II (i)
 Liam Carson - II (i)
 Anna Corderoy - II (i)
 Philippa James - I
 Lily McIlwain - I
 Thomas Wells - II (i)

Experimental Psychology

Phoebe Barnett - II (i)
 Phoebe Corker-Marin - I

Fine Art (BFA)

Olivia Rowland - II (i)
 Louise-Ann Williams - II (i)

Geography

Naryan Branch - II (i)
 Sarah Clarke - II (i)
 Oliver Glanville - II (i)
 Alexandra Grime - II (i)
 Grace Kneafsey - II (i)
 Hibba Mazhary - I
 Lucy Roberts - II (i)
 Chloe Rutland - II (i)
 Liam Saddington - I
 Joanna Thompson - I

History

Alexandra Hampton - I
 Aoife Hyde - I
 Alice Pickthall - I
 Matthew Rose - II (i)

History & Politics

Thomas Holker - II (i)
 Daniel Minister - I
 Adam Weston - I

History of Art

Thomas Barrie - II (i)
 Lucy Byford - I
 Sarah Mathews - II (i)

Human Sciences

Alexa Bish-Jones - II (i)
 Thomas Gaisford - II (i)
 Lauren Moulst - I
 Peter Woods - II (i)

Law

Christopher Casson - II (i)
 Jasper Gold - I
 Rebecca Jenkins - II (i)
 Keng Yi Kwek - II (i)
 Adrian Lee - II (i)
 Zahida Manji - I
 Alec Young - II (i)

Law with Law Studies in Europe

Marielena Doeding - I

Materials Science (MEng)

Yiyun Chen - II (i)
 Sam Eardley - II (i)
 James Plummer - II (i)

Mathematics (BA)

Patrick Shammas - II (i)

Mathematics (MMath)

Melissa Oatham - I
 Sumitra Ratilal - II (ii)

Mathematics & Computer Science (BA)

Vincent Wang - II (i)

Mathematics & Computer Science (MMathCompSci)

Carol Mak - I

Mathematics & Philosophy (MMathPhil)

Victoria Barrett - I

Medical Sciences

Rosemary Barker - II (i)
 Rebecca Lenihan - II (i)
 Miranda Stoddart - I
 Sophie Taylor - II (i)
 Emma Vidler - I
 Katy-Louise Whelan - II (ii)

Modern Languages

Niamh Furey - II (i)
 Kate Robinson - II (i)
 Emily Scorer - II (i)
 Sarah Shepherd - I
 Rosie Snowball - II (i)
 Jessica Sutherland - II (i)
 Gabriel Tiplady - I

Modern Languages & Linguistics

Mhairi Crinean - II (i)
 Rebecca Meier - II (i)

Molecular & Cellular Biochemistry (MBiochem)

Joseph Bell - II (i)
 Joshua Biggs O'May - II (i)
 Emily Mills - I

Music

Joshua Hagley - II (i)
 Hannah Scott - II (i)
 Daniel Shao - I

Oriental Studies

Grace Mayhew - I

Philosophy & Modern Languages

Matthias Steiner - I

Philosophy, Politics & Economics

Jinu Choi - II (i)
 Ayako Fujihara - I
 Jack Hampton - II (i)
 Dylan Lynch - II (i)
 Sarah Lyons - I
 Siew Ng - II (i)
 Amy Symons - II (i)
 Daniel Walker - II (i)

Physics (BA)

Alistair Adams - I
 Samuel Khodursky - I
 Alexander Newton - II (i)
 Alexander Ruszkowski - II (ii)

Physics (MPhys)

Alexander Brown - II (ii)
 Thomas Nicholas - I

Psychology & Philosophy

Jake Berger - II (i)

SCHOLARSHIPS & EXHIBITIONS

Scholars

Molly Atkinson (*Biomedical Sciences*) Rose Scholar
 Sarah Attrill (*Biological Sciences*) Rose Scholar
 Chan Bae (*Mathematics & Computer Science*) ATV Scholar
 Alex Benn (*Law*) David Blank Scholar
 Jeremy Bosatta (*Modern Languages*) Baker Scholar
 Jacob Boswall (*Oriental Studies*) Kaye Scholar
 Nathan Caldecott (*Fine Art*) College Scholar

Kaiyi Chen (*Materials Science*) Geoffrey Griffith Scholar
 Christopher Coombs (*Mathematics*) College Scholar
 Siyao Du (*Materials Science*) ATV Scholar
 Marc-Andrea Fiorina (*Philosophy, Politics & Economics*) College Scholar
 Emma Goddard (*Geography*) Clothworkers' Scholar
 Paul Guy (*Molecular & Cellular Biochemistry*) Sembal Scholar
 Paul-Stefan Herman (*Computer Science*) College Scholar
 Aoife Hyde (*History*) College Scholar
 Philippa James (*English Language & Literature*) College Scholar
 Samuel Khodursky (*Physics*) College Scholar
 Min Seok Kim (*Geography*) College Scholar
 Amelia Lias (*Molecular & Cellular Biochemistry*) Sembal Scholar
 Zahida Manji (*Law*) David Blank Scholar
 Katarina Martinovic (*Physics*) College Scholar
 Lily McIlwain (*English Language & Literature*) College Scholar
 Emily Mills (*Molecular & Cellular Biochemistry*) Sembal Scholar
 Matthew Newton (*Engineering Science*) Goldsworthy Scholar

James Orrell (*Music*) ATV Scholar
 Kieran Paterson (*Chemistry*)
 F M Brewer Scholar
 Thomas Pausey (*Law*)
 David Blank Scholar
 Daniel Payne (*Chemistry*)
 College Scholar
 Chloe Rooke (*Music*)
 Répétiteur Scholar and ATV Scholar
 Grace Roper (*Chemistry*)
 College Scholar
 Lauren Sabin (*Geography*)
 Clothworkers' Scholar
 Sally Schwartz (*History of Art*)
 Brook Scholar
 Faith Scott Deuchar (*History & Politics*)
 Philip Fothergill Scholar
 Akash Sonecha (*Law*)
 David Blank Scholar
 Peter Stephenson (*Physics*)
 ATV Scholar
 Guan You Tan (*Philosophy, Politics & Economics*)
 College Scholar
 Sophie Taylor (*English Language & Literature*)
 College Scholar
 Michael van de Noort (*Engineering Science*)
 Goldsworthy Scholar
 Emma Vidler (*Medical Sciences*)
 Sembal Scholar
 Hannah Webb (*Molecular & Cellular Biochemistry*)
 Sembal Scholar
 Fraser West (*Philosophy, Politics & Economics*)
 College Scholar
 Joseph Wood (*History*)
 Garret Scholar
 Nicholas Yung (*Mathematics & Statistics*)
 College Scholar

Exhibitioners

Joseph Bell (*Molecular & Cellular Biochemistry*)
 College Exhibitioner
 Lucy Byford (*History of Art*)
 College Exhibitioner
 Matthew Clements (*Geography*)
 College Exhibitioner
 Lotte Coppieters (*Psychology & Linguistics*)
 College Exhibitioner
 Louise Dandy (*Geography*)
 College Exhibitioner
 Katharine Gardner (*Mathematics*)
 College Exhibitioner
 John Hendrick (*Engineering Science*)
 College Exhibitioner
 William Honey (*Engineering Science*)
 College Exhibitioner
 Lucjan Kaliniecki (*Human Sciences*)
 College Exhibitioner
 Persis Love (*Modern Languages*)
 College Exhibitioner
 Hibba Mazhary (*Geography*)
 College Exhibitioner
 Kirill Mikhaylov (*Physics*)
 College Exhibitioner
 Siew Ng (*Philosophy, Politics & Economics*)
 College Exhibitioner
 Holly Sadler (*Biological Sciences*)
 College Exhibitioner
 Andrea Sisko (*Physics*)
 College Exhibitioner
 Nikul Vadgama (*Engineering Science*)
 College Exhibitioner

PRIZES AND AWARDS

University Prizes Undergraduates Biochemistry

Departmental Prize for Second Best Performance in Prelims

Alyssa Hummer (*Molecular & Cellular Biochemistry*)

Braker Prize for Performance in Prelims

Daniya Aynedinova (*Chemistry*)

Commended for Performance in Medical Sociology

Jonathan Drake (*Medical Sciences*)

Gibbs Book Prize

Wilfred Diment (*Chemistry*)

Gibbs Book Prize

Maya Shahor (*Human Sciences*)

Gibbs Prize for BA Group Project Presentation

Samuel Khodursky (*Physics*)

Gibbs Prize for Best Team Design Project

Theo Windebank (*Engineering Science*)

Gibbs Prize for Performance in Prelims

Faraaz Khan (*Biomedical Sciences*)

Gibbs Prize for Performance in Prelims

Rosemary Shakerchi (*English Language & Literature*)

Gibbs Prize for Second Best Performance in FHS

Susannah Gold (*Biological Sciences*)

G-Research Prize for Best Computer Science Project in Mathematics & Computer Science

Carol Mak (*Mathematics & Computer Science*)

Inorganic Chemistry Part II Thesis Prize

Nicole Evans (*Chemistry*)

Law Faculty Prize in Copyright, Trade Marks and Allied Rights

Jasper Gold (*Law*)

Red Mansion Prize

Olivia Rowland (*Fine Art*)

Ronald Victor Janson Prize for Best Project in Electronic Communications

Owen Morgan (*Engineering Science*)

Sir William Dunn School for Pathology Art Award

Virginia Russolo (*Fine Art*)

Slaughter & May Prize in Criminal Law

Alex Benn (*Law*)

White & Case Company Law Prize

Adrian Lee (*Law*)

College Prizes

The Burton Prize for the best academic performance during the year in an area covering Psychology, Sociology, Geography and Human Sciences was awarded to Lauren Moul (*Human Sciences*).

The Cochrane Evidence-Based Medicine Prize for the best critical appraisal of evidence answering a practical clinical question was awarded Selali Fiamanya (*Medical Sciences*).

The Francis and Caron Fernandes Music Prize for contributing towards the musical life of the College was awarded to John Kenny (*Politics & International Relations*) and Jingjing Wang (*Government*).

The Frank Allen Bullock Prize for the best piece of creative or critical writing was awarded to Naomi Poltier (*Continuing Education*).

The Gardner Prize for outstanding contribution to the life of the College was awarded to Marc-Andrea Fiorina (*Philosophy, Politics & Economics*).

The Hart Prize for the best essay on a historical subject by a first- or second-year undergraduate was awarded to Antonio Gottardello (*History*).

The Harold Bailey Prize for Asian Studies was awarded to Grace Mayhew (*Oriental Studies*).

The Jonathan Bailey Prize for debating was awarded to George Hames (*Modern Languages*).

The Katritzky Prize for the best performance in Chemistry Part I was awarded to Wilfred Diment (*Chemistry*).

The Katritzky Prize for the best performance during the year in History of Art by a second-year was awarded to Sally Schwartz (*History of Art*).

Leask Music Scholarships were awarded to Melissa Morton (*Music*).

The Michael and Lily Atiyah Prize for the best performance in Mathematics by a second-year was awarded to Christopher Coombs (*Mathematics*).

The Michael Atiyah Prize in Mathematics for the best mathematics essay or project written by a St

Catherine's undergraduate in his or her second year reading for a degree in Mathematics or joint school with Mathematics was awarded to Nicholas Yung (*Mathematics & Statistics*).

The Neville Robinson Prize for the best performance in Physics Part B was awarded to Alistair Adams (*Physics*).

The Neville Robinson Prize for the best performance in Physics Part C was awarded to Thomas Nicholas (*Physics*).

The Peter Raina Prize for the best essay by a second-year reading History was awarded to Alexandra West (*History & Modern Languages*).

The Rose Prize for the best academic performance during the year in Biological Sciences was awarded to Susannah Gold (*Biological Sciences*).

The Rupert Katritzky Prize is awarded for the best performance in the Final Honour School in History was awarded to Aoife Hyde (*History*).

The Smith Award for services to Drama within the College was awarded to Alexander Newton (*Physics*).

The Smith Award for services to Music within the College was awarded to Elizabeth Buckle (*Music*).

The Stuart Craig Award given to an outstanding student who has gained distinction in a university or national sport, or cultural or musical activities was awarded to Sian Kelly (*Modern Languages & Linguistics*).

The Thomas Jefferson Prize for the North American student who has contributed most to the College academically, socially or culturally 'in the spirit of Thomas Jefferson' was awarded to Christopher Dowd and Jon Luke Watts (*Visiting Students*).

The Wilfrid Knapp Prize for the best essay by a second-year reading PPE was awarded to Fraser West (*Philosophy, Politics & Economics*).

College Travel Awards
Wallace Watson Award
William Hartz (*Chemistry*)
Angus Young (*Chemistry*)

Patricia Knapp Award
Selali Fiamanya (*Medical Sciences*)
James Taylor (*Medical Sciences*)

Emilie Harris Award
Emma Ruskuk (*Psychology & Linguistics*)

Bullock Travel Award
Joseph MacConnell (*Philosophy, Politics & Economics*)
Till Wicker (*Economics & Management*)

Bullock Career Award
Sian Kelly (*Modern Languages & Linguistics*)

Philip Fothergill Award
Emmanuelle Soffe (*History of Art*)

Raymond Hodgkins Award
Jacob Boswall (*Oriental Studies*)

Environmental Travel Award
Thomas Joy (*Engineering Science*)

Antony Edwards Bursary
Sian Kelly (*Modern Languages & Linguistics*)

Mark Davys Bursary
Luke Cackett (*Law with Law Studies in Europe*)
Sanjana Canumalla (*Law with Law Studies in Europe*)

Teach First Bursary
Katherine Pears (*Geography*)
Margherita Philipp (*Philosophy, Politics & Economics*)

College Travel Awards
Michael Ahrens (*Chemistry*)
Oliver Balazs (*Economics & Management*)
Rosemary Barker (*Medical Sciences*)
Aneeka Bartlett (*Oriental Studies*)
Isabel Beshar (*Social & Cultural Anthropology*)
Lauren Blum (*Human Sciences*)
Jeremy Bosatta (*Modern Languages*)

Rachel Chan (*Chemistry*)
Lotte Coppieters (*Psychology & Linguistics*)
Imogen Downing (*Philosophy, Politics & Economics*)
Katri Eeva (*Education*)
Taylor Fields (*Continuing Education*)
Marc-Andrea Fiorina (*Philosophy, Politics & Economics*)
Oscar Hartman Davies (*Geography*)
Lilla Homlok (*Oriental Studies*)
Phoebe Jacobson (*Philosophy, Politics & Economics*)

Hannah Kelly (*History of Art*)
Hugo Leatt (*Modern Languages*)
Persis Love (*Modern Languages*)
Jamie McGowan Stuart (*History*)
Matthew Newton (*Engineering Science*)
Matthew Oxley (*Modern Languages*)

Guillermo Pascual Pérez (*Mathematics*)
Kinga Petrovai (*Education*)
Henry Richardson Banks (*Medical Sciences*)
Virginia Russolu (*Fine Art*)
Claire Sims (*History & Politics*)
George Todd (*Engineering Science*)
Jingjing Wang (*Government*)

The Charles Wenden Fund has continued to support the sporting life of the College.

Graduate Degrees & Diplomas

During the academic year 2015-2016 leave to supplicate for the DPhil was granted to the following:

Christelle Abadie (Engineering Science)

Cyclic Lateral Loading of Monopile Foundations in Cohesionless Soils

Marta Brambilla (Chemistry)

Asymmetric Syntheses of Polyhydroxylated 1-hydroxymethylpyrrolizidines

Elena Cagnoli Fieconi (Philosophy)

Ethics for Rational Animals: A Study of the Cognitive Psychology at the Basis of Aristotle's Ethics

Simon Cassidy (Chemistry) *

Structure, Properties, and Chemistry of Iron-Based Superconductors

Diana Di Paolo (MPLS Doctoral Training Centre)

Single-Molecule Imaging of Electroporated Chemotaxis Proteins in Live Bacteria

Francesco Ferroni (Materials)

Electron Microscopy and Multi-scale Modelling of Radiation Damage Recovery in Tungsten

Joshua Hill (Chemistry) *

Structural Chemistry of Transition Metal Dicyanometallates

Johnny Hunter (Earth Sciences)

Flexure and Rheology of the Pacific Oceanic Lithosphere

Hege Larsen (Medical Sciences)

Neuronal Control of Cardiac Excitability in Pro-hypertensive States

Margaret Loudon (Medical Sciences)

Understanding the Pathophysiology of Aortic Valve Dysfunction Using Advanced CMR Techniques: 4D Flow in Aortic Valve Disease

Shilan Mistry (Mathematics)

Making and Evaluating Predictions

Panayiota Ploutarchou (Medical Sciences)

Effect of Oocyte Glycoproteins on Ovarian Follicle Development and Function

Benjamin Porter (Materials)

Rapid, Electrostatic Self-Assembly of Nanoparticles with Kelvin Probe Characterisation

Christopher Prosser (Politics & International Relations)

Rethinking Representation and European Integration

Bruno Silva Rodrigues (Modern Languages) *

As Micronarrativas em Portugal: de Almada Negreiros a Ana Hatherly

Giorgio Stefanoni (Computer Science)

Evaluating Conjunctive and Graph Queries over the EL Profile of OWL 2

Leo Swadling (Medical Sciences)

Genetic and Molecular Technologies to Optimise Novel Vaccines for Hepatitis C Virus Infection

Simao Valente Baptista (Modern Languages)

Fernando Pessoa's Detective Fiction

Omar Valero Ricart (Engineering Science)

Multidisciplinary Concurrent Optimisation of Gas Turbine Blades

Andrew van Paridon (Engineering Science)

Thermal Modelling and Control of High Pressure Turbine Subsystems

Chang Wang (Mathematics)

Mathematical Modelling of Lithium Intercalation Dynamics in Battery Electrodes

Jovi Wong (Medical Sciences)

Role of Cryptochromes in Retinal Responses to Light

* indicates previous graduate of the College

The following were successful in other examinations:

Erik Abrahamsson, MBA

Swati Agrawal, MSc (C) Clinical Embryology

Ikuya Aizawa, MSc (C) Applied Linguistics & Second Language Acquisition

Adnan Al-Khatib, MBA

Najwa Al-Thani, MSc (C) Global Governance & Diplomacy

Antonio Andres Martinez, MSc (C) Water Science, Policy & Management

Rory Antcliff, MPhil Economics

Andrew Baca, MBA

George Bacon, PGCE Religious Education

Amraj Bahia, MSc (C) Mathematical & Computational Finance

Melanie Ball, MSt Creative Writing (part-time)

Michael Barton, PGCE Biology

Joao Bechara Calmon, MBA

Matilda Becker, MSc (C) Water Science, Policy & Management †

Sara Benčekovic, MSc (C) Social Anthropology

Solana Beserman Balco, MJuris

Isabel Beshar, MPhil Medical Anthropology

Ji Bian, MBA

Naomi Bick, MSc (C) Social Science of the Internet

Katharine Biddle, MPhil Oriental Studies (Modern Chinese Studies)

Ahmed Bin Shabib, MSc (C) Sustainable Urban Development (part-time)

Rashed Bin Shabib, MSc (C) Sustainable Urban Development (part-time)

Paul Booth, Master of Public Policy

Michael Bouterse, MSt Theology †

Mark Brown, MBA

Alice Budisatrijo, Master of Public Policy

Katherine Casey, MSc (C) Mathematics & Foundations of Computer Science

Charles Cavness, Executive MBA (part-time) †

Joseph Chadwin, MSt Study of Religion

Shan Chang, MSc (C) Comparative Social Policy * †

Rose Chantiluke, MSt Modern Languages †

Zenan Chen, MSc (C) Computer Science

Annamarie Clay, MSc (C) Theoretical & Computational Chemistry

Vikram Dalal, MBA

Edward Davies, MSc (C) Learning & Teaching (part-time)

Patrick Dowd, MBA

Georgina Edwards, MSt Modern Languages †

Kareem Edwards, MBA †

Tegan Ekanayake, MSc (C) Clinical Embryology

Tarek El Banna, MBA

George Entwistle, MSt History of Design (part-time) †

Faidra Faitaki, MSc (C) Applied Linguistics & Second Language Acquisition †

Jessica Fure, MSt Literature & Arts (part-time)

Martin Garthwaite, MSt History of Design (part-time)

Geeva Gopal Krishnan, Master of Public Policy †

Gary Greer, MSc (C) Experimental Therapeutics (part-time)

Gustavo Haber Filho, MBA

Anushka Halder, MSc (C) Social Anthropology

Claudia Hartman, MSc (C) Migration Studies †

Taku Hatano, MSc (C) Mathematical Finance (part-time) †

Alice Hawryszkiewicz, MSc (C) International Health & Tropical Medicine

Mark Herring, MBA

Mark Hew, Master of Public Policy

Evangelene Hibbs, MSt Creative Writing (part-time)

Alexander Hinkson, 2nd BM *

Mathias Hoeyer, MSc (C) Financial Economics

Victoria Howells, PGCE Physics

Ximeng Hu, MSc (C) Applied Linguistics & Second Language Acquisition

Heather Huddleston, BCL †

Kelsey Inouye, MSc (C) Education (Higher Education)

Owain James, MSt Theology

Rebecca Johnstone, MSt History of Design (part-time)

Ananya Joshi, MSc (C) Financial Economics

Ignacio Juarez Martinez, MSc (R) Zoology

Matthew Judge, BCL

Dilraj Kalsi, 2nd BM *

Moctar Kane, MPhil Development Studies

Dinesh Kapur, Master of Public Policy

Arsalan Karim, MSc (C) Experimental Therapeutics (part-time)

Callum Kelly, MSt History of Art & Visual Culture * †

Jelle Koopsen, MSc (C) Integrated Immunology

Yasmin Kumi, MBA *

Jonathan Lachance, MSc (C) Sustainable Urban Development (part-time)

Misa Lazovic, MBA

Audrey Lemal, MJuris

Ruoyu Li, MJuris

Louise Linnander Obermayer, MBA

Man Luo, MSc (C) Applied Statistics

Zhongyi Mai, MSc (C) Radiation Biology

Mantas Malys, 2nd BM *

Nicholas Martinez, MBA †

Musata Matei, MSt Diplomatic Studies (part-time) * †

Lauren McKarus, MSc (C) Social Science of the Internet

Philip McKeown, MSc (C) Experimental Therapeutics (part-time)

Sean McLaughlin, PGCE Religious Education

Mike Mehta, MBA

Alberto Meneghello, MBA

Arpita Mitra, MSc (C) Criminology & Criminal Justice

Ian Moore, MSc (C) Applied Linguistics & Second Language Acquisition

Hangwani Muambadzi, MBA

Marlin Mubarak, MSc (C) Experimental Therapeutics (part-time)

Amena Munshi, PGDipl Evidence-Based Health Care (part-time)

Mudasser Musaoir, PGDip Diplomatic Studies

Valentina Ndolo, MSc (C) International Health & Tropical Medicine

Lakshmi Neelakantan, MSc (C) Evidence-Based Social Intervention & Policy Evaluation

Yihan Ng, MSc (C) Financial Economics

Sherry Ngai, MBA †

Marten Norlin, MSc (C) Sustainable Urban Development (part-time)

Laura O'Connor, MSt Creative Writing (part-time)

Freddie O'Farrell, MSc (C) Comparative Social Policy

Yijing Pan, MSc (C) Financial Economics

Bo Pang, MBA

Martin Pastor, MJuris

Katie Paul, 2nd BM

Jessica Penberthy, MBA

Avril Perry, MBA

Francesca Perry, MSt Music (Musicology) †

Sean Peters, MBA

Carey Pike, MSc (C) Pharmacology †

Aeden Pillai, MPhil International Relations †

Katherine Porter, MSc (C) Learning & Teaching (part-time) *

Angelos Prastitis, MSc (C) Computer Science †

Sachhyam Regmi, MBA

Miguel Renteria Rodriguez, Master of Public Policy

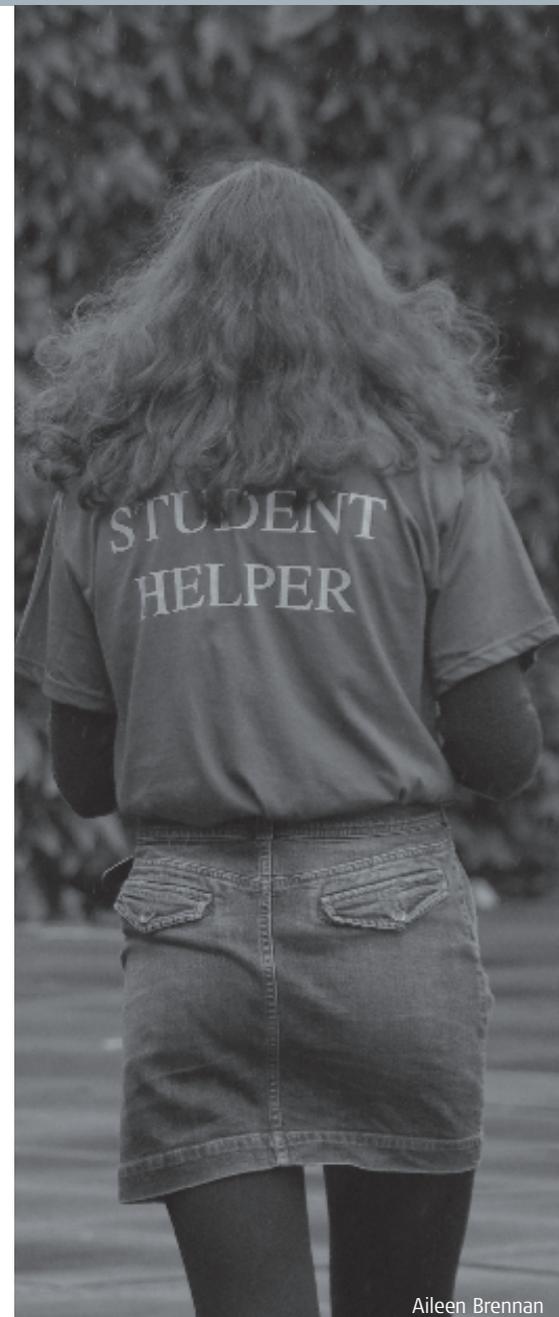
Mabel Rubadiri, *MSc (C) African Studies*
Nikhil Saigal, *MBA*
Emily Savage, *MSc (C) Criminology & Criminal Justice*
Hannah Schaller, *MSt English (1700-1830) †*
Carina Schwarz, *MJuris*
Sanvit Shah, *MSc (C) Contemporary India*
Ankita Shanker, *BCL*
Jay Shiao, *MSc (C) Radiation Biology*
Yang Song, *MSc (C) Latin American Studies*
Maria Springer, *MBA*
Nora Turoman, *MSc (C) Psychological Research*
Mikesh Udani, *MSc (C) Computer Science †*
Rama Varma, *MSt Creative Writing (part-time)*
Irene Veng, *MSc (C) Contemporary Chinese Studies*
Efim Voinov, *Executive MBA (part-time) †*
Cara Volpe, *MBA*
Jingjing Wang, *Master of Public Policy * †*
Yixin Wang, *MSc (C) Financial Economics*
Joel Ward, *2nd BM **
Emily Wilkes, *MSt Archaeology †*
Zhaoli Xu, *MBA*
Assma Youssef, *MSt Women's Studies*
Feifan Yu, *MSc (C) Applied Statistics †*
Qiankai Zhao, *MSc (C) Applied Statistics*

* indicates previous graduate of the College

† indicates candidates adjudged worthy of distinction by the Examiners

Graduate Scholars

Benjamin Abraham (*Government*) Overseas Scholar
Francois-Xavier Ada Affana (*Interdisciplinary Area Studies*) MCR Overseas Scholar
William Beuckelaers (*Engineering Science*) Light Senior Scholar
Serkan Birgel (*Geography & the Environment*) Light Senior Scholar
Christoph Dorn (*Computer Science*) College Scholar
Philip Earp (*Materials*) Light Senior Scholar
Ayako Fujihara (*Economics*) Kobe Scholar and Foundation College Scholar
Louis Gardner (*Medical Sciences*) Light Senior Scholar
Juan Gutierrez Rodriguez (*Government*) Light Senior Scholar
Anjul Khadria (*MPLS Doctoral Training Centre*) Overseas Scholar
Catherine Laporte-Oshiro (*Politics & International Relations*) Henfrey Graduate Scholar
Luigi Marchese (*Physics*) Light Senior Scholar
David McCaffary (*Medical Sciences*) Glaxo Scholar
Matthew McMillan (*Philosophy*) Light Senior Scholar
Matthias Mergenthaler (*Materials*) Leathersellers' Company Scholar
Robert Oppenheimer (*MPLS Doctoral Training Centre*) Overseas Scholar
Benjamin Page (*Theology*) Light Senior Scholar
Allison Roth (*Zoology*) Overseas Scholar
Martyn Rush (*Oriental Studies*) Ghosh Graduate Scholar
Thomas Scott (*MPLS Doctoral Training Centre*) Leathersellers' Company Scholar
Stefano Soleti (*Physics*) Leathersellers' Company Scholar
Arturo Soto Gutierrez (*Fine Art*) College Scholar (Arts)
Miranda Stoddart (*Medical Sciences*) Foundation College Scholar
Jae Won Suh (*Medical Sciences*) Foundation College Scholar
Chika Terada (*History*) Kobe Scholar
Emma Vidler (*Medical Sciences*) Foundation College Scholar



Aileen Brennan



Angus Young

Mechanical nomad: across Central Asia by bike

Angus was one of two winners of the 2016 Wallace Watson Award. He shares his experience of cycling across Asia.

After attending the previous year's Wallace Watson Award lecture, I felt inspired to take up a challenge myself and plan my own expedition. I knew that I wanted to cycle, but I did not yet know where as it is

such large world with so many places to see. Eventually I decided on Central Asia, as it was a place that had always interested me, yet knew very little about it. After countless hours studying maps I planned my route and, on 19 July, I left Bishkek, Kyrgyzstan, and started my 4,500km journey to Ulaanbaatar, Mongolia.

Before landing in Bishkek I really had no idea what to expect. What I found was a bizarre blend of rural housing, a 'Western' style city, and what one could only describe as a Soviet relic. I spent two days in the city and tried to soak up as much culture as possible, however the open road was beckoning. From Bishkek I headed north across the border into Kazakhstan. Five minutes over the border I was pulled over by a couple of Kazakhs, and though they spoke no English they were still very clear that they thought (quite rightly so) I was a mad Englishman on a bike. I was given a few tomatoes and a bottle of coke; this became a regular occurrence over the next few weeks.

The following day I arrived in Almaty, a diverse city dominated by looming mountains. From here I headed east across the dessert into China. I decided to enter China earlier than I originally planned as I'd spotted a road on the map that I couldn't pass up the opportunity to follow. Crossing into China took four hours in total at the border with countless checks. I headed south east to Yili, which turned out to be quite a large city, and then carried on until I could finally turn north and head on the road through the mountains. The next few days were some of the most mind-blowing of my life! The road and the scenery were amazing – it turned

The road and the scenery were amazing – it turned effortlessly from desert, to forest, to mountain passes.

Left: In front of the Parliament of Mongolia.

Right: Making new friends.

effortlessly from desert, to forest, to mountain passes. The highest pass was 3,500m which meant I had a day of climbing over 3,000m before a long descent back into the valley. I spent the evenings with local farmers who had all offered me a warm bed in which to sleep.

I was now bound for Mongolia. As soon as I entered, there was a dramatic change in the road quality and my pace dropped considerably. I entered from the south east and headed north towards Ulaangom, Mongolia's second city. Here I spent two nights with Tulkas, a hairdresser, while I sorted my life out. I had lost two days and was rather behind, so I had some motoring to do! The road would be pleased with itself if it got marked as a bridleway on a UK OS map! This meant that I had the six longest days of my trip, cycling from dawn to dusk, however it was simply the most amazing road that I have ever seen.

As I travelled closer to the capital more and more people were on the road and they improved in quality. On my last day I was able to cover 246km and arrive in my hostel before dinner.

And there I was, after 40 days on the road my journey was complete. It was a surreal experience ending, and if I would have had the time I would have gone straight through Ulaanbaatar and out the other side. I was taken aback by the overwhelming generosity of the local people wherever I went which, coupled with the awe inspiring landscape, will remain with me always.

I would like to say a massive thanks to Teddy and Ruthie Watson for enabling me do this, and every person that cheered me up a mountain, or gave me some food and a place to sleep. ■



The Wallace Watson Award encourages students to undertake expeditions or travel of a challenging nature, by providing financial assistance. The objective of the initiative is to foster an inner strength of character, an appreciation of other cultures and a broadening of the mind, through helping to ensure opportunities for St Catz students to travel the world.

William Hartz

Spitsbergen retraced

Our second Wallace Watson Award winner takes us on a journey across the Arctic, following in the footsteps of the 1923 Oxford Arctic Expedition.



Endre's pulling a hammer and chisel out of his rucksack.

"Can you take the GPS coordinates please?"

I take the GPS out of my front pocket, I see that we are just sixty-two metres shy of the summit. Now isn't the time to stop. The wind is howling and operating the GPS without gloves is taking its toll on my fingers.

We're climbing on the south east ridge of Mt Irvine in Svalbard at seventy-nine degrees north. It has taken nine months of planning, two planes, a twenty hour boat journey and fourteen days skiing across the ice cap to get here. We're the second people to ever climb the ridge. The first were Noel Odell and Merton College undergraduate chemist Andrew Irvine, in 1923. The following year Odell was the last person to see Irvine alive as he set out with George Mallory from Camp 6, to climb Everest.

"Seventy-nine degrees, six minutes and fifty-seven point nine zero seconds north. Seventeen degrees, three minutes and nineteen point seven three seconds east."

Endre has finished taking his rock sample, it will later go for exposure dating in Tromsø. We carefully scramble the remaining ridge to the summit. The cloud is setting in and there isn't any time for repeat photography. We call it a day and begin our descent back to camp.

I think it is fair to say that it hasn't been a normal year at University. One night, over a year ago, my friends and I found ourselves in the Lamb and Flag making plans to retrace the 1923 Oxford University Arctic Expedition. Several emails, hours of training and our Finals over, we found ourselves on the east coast of the Arctic island of Spitsbergen. We had 32 days in which to cover 184 miles of challenging terrain, and 465 freeze-dried meals ahead of us.

This same route had been taken 93 years ago by a team of four from Oxford University. They became the first to cross this island and, in doing so, they made several ascents, created a geological map and photographed the region. We unearthed the records of the original expedition in the Royal Geographical Society, Scott Polar Research Institute, Merton College Library and private archives. Inspired by these records we developed our own plans. Firstly to retrace their crossing and



retake their photographs. Secondly to undertake drone mapping, take DNA plant samples, repeat their first ascents and put up our own new mountaineering routes. Alongside this, the whole expedition would be recorded in film.

We are happy to report that we all returned safely. Working as a team, we retraced the original expedition 93 years to the day and took over 20 repeat photographs. Additionally we created three digital elevation transects of the Bear Bay Glacier, undertook the second plant survey of the area, climbed seven mountains, including repeating all the 1923 ascents, and putting up one new route on the west ridge of Svalbard's highest mountain, Newtontoppen. On two occasions, quite unexpectedly whilst undertaking some repeat photography, we chanced upon some original artefacts

Above: Recreating photos from the original expedition (1923 left, 2016 right)

This same route had been taken ninety-three years ago by a team of four from Oxford University.

from the 1923 expedition, including a note left by the party at a beacon. Here we added our own message.

One of the things I enjoyed the most was using their records, including diaries, to navigate the landscape through their eyes and provide us with an intimate insight into the 1923 expedition. Using this tool, we could return to the original sites where they took their photographs. Here we would then take our own. The repeat photography offered an engaging way to tell a story of how the landscape had changed, and a glimpse into the hardship of the 1923 expedition.

Despite, of course, more sophisticated clothing and equipment, life wasn't always straight forward. Ski boots got wet, batteries froze, and we constantly had to be alert in case the largest land predator turned up – the polar bear. One night we encountered a force 11 storm that meant we couldn't erect the tent, despite digging in for six hours. We had to sleep in the survival shelter that night.

None of this would have been possible without the passionate and motivated team I had the pleasure of working with, both on the ice and back in the UK. An expedition like this needs to overcome great logistical and financial challenges, and we are grateful to everyone who helped us achieve the aims of the expedition. Chancing on a scrap of phone signal as I stood on Svalbard's highest mountain, I left the Watson family a voicemail to update them on our progress. Having their help and support in the lead up to this summer was of huge importance and for which I am very grateful. ■

Georgios Ntentas & Matt Smith

Rowing Club exchange trip to Japan

In August 2016 the St Catherine's College Boat Club hosted a squad from Tsukuba University, Japan, while they competed in the Oxford City Royal Regatta. A month later the Japanese club returned the favour when SCCBC visited Tokyo for the return leg of the exchange. Georgios Ntentas (2014, Medical Sciences) and Matt Smith (2014, Computer Science) share their experiences of their summer of international rowing.

Kicking off a couple of weeks just after summer eights, we began training in earnest, with our first goal being the Oxford City Royal Regatta. We trained six times a week being sure to make the most of the sunny evenings. Under the coaching of ex-club president David Zimmer, we moved towards being race-ready by winning the 1k and 500m IM3.8+ races at Oxford City. Our Japanese visitors from Tsukuba University put down an impressive performance in both events, winning WNov2X and W1! After a wonderful weekend, our next stop was Japan!

After about 24 hours on buses and planes (and feet!) we arrived at Toda rowing lake – the Olympic rowing venue from Tokyo in 1964. After a quick setup paddle and being bamboozled by a supermarket, we got into our routine of early-to-bed, early-wake. We were racing

After a quick setup paddle and being bamboozled by a supermarket, we got into our routine of early-to-bed, early-wake.



Toda rowing lake

SCCBC

in the Oxford Shield Regatta as part of the All Japan Universities Championships – something akin to British Universities and Colleges Sport (BUCS) in the UK. The regatta we were competing in allowed entries from non-university crews, so we saw a mixed field of companies and universities entering.

With a couple of outings under our belt, we hit the race weekend, starting with our heat. We came second (6:33.13), behind an exceptionally strong Tokaido crew, who went on to win the A Final. This put us into the repechages, in which we placed first and booked ourselves a slot in the semi-finals on Sunday morning (6:31.09). The semi-final turned out to be a bit of a race-of-death; we again faced the strong Tokaido crew from the heats, but each of the other two crews posted times within three seconds of us, and were competing for one slot in the B Final. Although we had a good

race, it wasn't enough, seeing us come third by half a length, setting the seventh quickest time overall in the semi-final (6:31.33).

After racing we had a number of visits from members of the Toda rowing community – from the Japanese Rowing Association and Saitama prefecture newspaper, to a rower who had raced against an Oxford crew in the 1950s (and beaten them by a bow ball, apparently!). We spent the evening meeting Tsukuba Alumni handing over a little bit of SCCBC, after which George brought out his best Japanese for a speech. We didn't understand a word of it, but apparently it was very good! Racing and training done, we set about exploring Tokyo for a few days, before flying back to the UK.

Hopefully the experience has put us in a strong place for the current season.■

Below: The Catz Rowing Squad in Japan @SCCBC

Below right: Leaving a bit of Catz in Toda – thanks to Caitlin Armstrong for painting the spoon



SCCBC



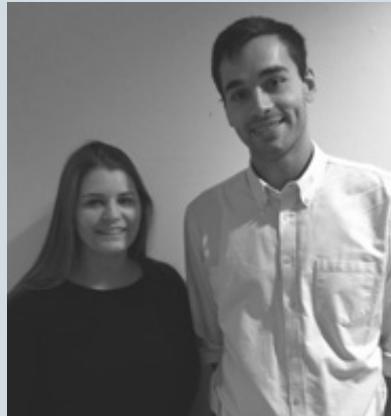
SCCBC

Clare Smedley & David Rowland

Montgomery and Me conference

A recent change in the law regarding medical consent has caused big changes in the way healthcare options are presented to patients. Following the 'Montgomery Judgement' the Collaborating Centre for Values-based Practice and The Nuffield Department of Surgical Sciences convened a conference at St Catz to discuss the wide-ranging implications for obtaining consent in medical practice. Clare Smedley (2012, Medical Sciences) and David Rowland (2011, Medical Sciences) reflect on the conference *Montgomery and Me: Implementing the New Standard for Consent to Treatment in Medicine and Healthcare*.

The Montgomery case dates back to 1999 when Nadine Montgomery was giving birth to her son, Sam. There were complications during labour and Sam was deprived of oxygen. He was later diagnosed with cerebral palsy. Doctors had agreed that, due to pre-existing factors, the risk of this occurring was 9-10%, but this warning was not passed on to Nadine and she was not given the opportunity to consider a caesarean section. She brought a claim against Lanarkshire Health Board stating that she should have been informed of the risk and that the option of a caesarean would have prevented Sam's



Clare Smedley and David Rowland

injury. The Supreme Court upheld her claim, and the new practice of patient consent came into being.

The Montgomery and Me conference at St Catz gave doctors, lawyers and philosophers the opportunity to unpick the issues surrounding the judgement. An initial talk by Jonathan Herring, Professor of Law at Exeter College, discussed the consequences of the ruling, which are often misinterpreted. The Montgomery case ruled that a doctor had acted negligently when not informing a patient fully of the risks associated with a given procedure. Professor Herring summarised how the ruling has changed the process of consent; it is the relationship between patient and doctor and an understanding of patient values that should guide the consent process.



Above: The UK Supreme Court



Aidan Melville

The ruling has really brought to the fore the importance of values-based practice. Edward Peile, Fellow of the Academy of Medical Educators, described this as promoting balanced decision making in a shared framework of values. This was expanded on by Professor Ashok Handa, Tutor in Clinical Medicine at St Catz, and founder of the Collaborating Centre for Values

Based Practice. He discussed how it is vital to find out what is important to the patient and ascertain their values, to help inform their decision making. It is no longer acceptable to encourage a patient to take the treatment with the greatest evidence base without first establishing what is most in-keeping with their values and beliefs. We heard a first-hand account from James Taylor, a vascular patient, about how values-based practice improved his healthcare experience.

The highlight of the day was the keynote lecture from Baroness Hale, Deputy President of the Supreme Court, and one of the Montgomery Judges. She gave a fascinating insight into the legal basis of consent and how the 'definition of capacity tells us what consent is'. It was pleasing for a room of healthcare professionals that Baroness Hale noted the difficulty in practically applying the ruling at a time when a clinician's time is already limited. The day closed with a fascinating panel discussion chaired by Sir Andrew Dillon, Chief Executive of the National Institute for Health and Care Excellence.

We are fortunate in Oxford to receive teaching in values-based practice as part of our clinical course. This conference was a valuable opportunity for us to develop a greater understanding of this ruling and the increasing importance of values-based practice. It is also fortunate that the Centre for Values-Based Practice is based here at the College!





Hannah Webb

Hannah Webb

Gold medal winner at the iGEM competition

The Oxford team at the 2016 iGEM (International Genetically Engineered Machine) competition won a gold medal for their innovative proposal for a potential treatment for Wilson's Disease. Hannah Webb (2014, Molecular and Cellular Biochemistry) shares her experience.

The iGEM competition is an annual synthetic biology competition held in Boston that attracts high school, undergraduate, and graduate teams from all over the world. The ethos of the competition is to inspire young

scientists to collaboratively and innovatively tackle 'real-world' problems with synthetic biology. Synthetic biology itself is an emerging area of life science research that can be somewhat broadly described as the design and construction of novel artificial biological pathways, organisms or devices, or the redesign of existing biological systems.

I was inspired to apply for the 2016 team in October 2015, whilst looking for lab work for the following summer. The iGEM competition presented opportunities rarely seen at the undergraduate level: to conceive of and conduct a project entirely of our own design, carry out a summer of research, and present at an international conference. Once being accepted onto the team of 11 in December 2015, research began into a potential project.

In April 2016 we decided to research a potential probiotic treatment for Wilson's Disease. This is a genetic disorder in which the body lacks the mechanisms to properly metabolise copper. When a person ingests copper, it is normally transported to the liver, and once here it follows one of two potential routes: the majority is secreted into the bile for excretion, and a small amount is loaded onto proteins in the blood for transport to other organs. In Wilson's Disease, there is an absence of the functional version of the protein required for both of these functions. This means that copper builds up in the liver, where it may react to form damaging free radicals, or compete with other ions for binding sites. After some time, the liver

The iGEM competition presented opportunities rarely seen at the undergraduate level...

becomes so damaged that free copper leaks into the blood and is deposited in other organs. These deposits can cause a range of symptoms such as brain, liver and kidney damage.

We were inspired to investigate Wilson's Disease after one of our team members received a lecture on the subject and was subsequently inspired to research the disease. After contacting the Wilson's Disease Support Group we were shocked to learn of the intense and limiting treatment regime. Current treatments must be taken four times a day, have severe and frequently reported side effects, and have a huge associated cost. Over the last two years the average cost of treatment has risen by 600 per cent, such that 25 days of treatment costs £3,400. This led us to consider a bacterial therapeutic as an alternative treatment to address these three concerns. In theory, our probiotic bacteria could be consumed by the patient to form a stable colony in the small intestine. These bacteria would contain a self-designed system genetic system that would allow the production of copper-binding proteins. Upon ingestion of copper, copper-sensitive promoters (essentially genetic switches) could be activated to allow the production of these proteins. The excess copper would then be bound and sequestered before being absorbed by the body, and excreted as the bacteria die.

We spent the summer modelling this system and carrying out 'wet-lab' experiments to characterise our various copper-sensitive promoter and copper-binding proteins, as well as investigating a potential delivery method for

the bacteria. In addition, the iGEM competition places a large emphasis on human practices. This refers to the need to consider the impact of our project in the larger scheme of things. We spoke to a large number of Wilson's Disease patients in order to determine what they desired from a novel treatment, in addition to discussing the feasibility of our project with experts in the field and even discussing how policy would need to change to accommodate such a therapeutic.

In October 2016, the project came to a close and we flew to Boston to present our findings. The conference spanned four days and over 300 teams were competing, all of whom had to produce a poster and 20-minute presentation summarising their projects. Whilst there we saw a huge range of inspiring research: from bacteria capable of degrading waste plastics, to novel ways of printing human tissue. And we met a huge number of other enthusiastic young synthetic biologists. The trip ended with a closing ceremony in which the medal-winning teams and the five nominees for the coveted special prizes were announced. We were delighted when our eight months of hard work were rewarded with a gold medal and nominations for Best Therapeutics Project, Best Presentation, Best Wiki, and Best Education and Public Engagement. ■

...our 8 months of hard work were rewarded with a Gold medal and nominations for Best Therapeutics Project, Best Presentation, Best Wiki, and Best Education and Public Engagement.



Hannah received a grant from the Master's Fund to help cover some of the costs of the competition expenses. The Master's Fund exists to support exceptionally talented students in their academic and wider endeavours. We are grateful to our donors who enable these kinds of awards to be made.

Helena Horsburgh (2010, Modern Languages & Linguistics)

Partner Account Manager at Dropbox

Helena Horsburgh (2010, Modern Languages & Linguistics) is Partner Account Manager at Dropbox, the world's largest cloud-based storage and collaboration platform. She was nominated in the 'rising star' category at the 2017 Women in IT Awards. We caught up with Helena to ask her some questions on her career so far.



Helena Horsburgh

How did Catz prepare you for your career in the IT industry?

I attended a small state school in Suffolk (Holbrook High School) and then a Sixth Form College in Essex (Colchester Sixth Form College) before studying German and Linguistics at Catz between 2010 and 2014. I also worked part-time in the Catz Development Office for three of the years I was in Oxford, which was great fun and gave me a great professional grounding as I got to work on some very interesting fundraising and engagement projects.

I think the main thing I gained at Catz was confidence. Coming from a small school, I was quite intimidated when I first came up to Oxford. Everyone around me seemed so much smarter than me and it took me a while to adapt. Over time, I started to feel much more comfortable both socially and academically. A real turning point for me was my year abroad,

which was part of the Modern Languages course. I spent nine months living in Düsseldorf and two months in Berlin. This helped me to expand my horizons, never having lived abroad before, as well as helping me gain work experience and my first insight into the tech industry.

I was always interested in technology while growing up, but wasn't really sure what I wanted to do after Oxford. I did an internship at the hotel search company Trivago during my year abroad and gained an understanding of key concepts in a tech company, like how they're structured, how they monetise their user base, how new products are developed and so on. When I came back to Oxford for my fourth year I had to start making some decisions about what to do afterwards and stumbled across Dropbox at one of the Careers Fairs. Straight away it seemed like a great fit;

I think the main challenge is encouraging young women and girls to consider a career in technology and to break down the barriers that are stopping them from pursuing this.

they were just opening up their first European office in Dublin and needed graduates to help get things started. Since getting the job, I've worked in a few roles across inbound sales, outbound sales and partnerships. I'm also involved in our diversity and inclusion efforts, and in recruiting.

Many people think that the IT sector is dominated by men. Is there any truth in that? What are the challenges and opportunities that women face in the industry?

Yes, there is definitely a shortage of women in the IT industry and you see it most when you visit partners or attend conferences. I think the main challenge is encouraging young women and girls to consider a career in technology and to break down the barriers that are stopping them from pursuing this. Organisations like CompTIA (the IT trade body) are doing great work in promoting this cause through their #MakeTechHerStory campaign. I've been able to grow my career at Dropbox thanks to the support of great managers, mentors and peers. When I think back to what I knew coming into the company around two and a half years ago,

it's amazing to see how much I've learned and grown professionally. And more importantly, how many opportunities are still ahead.

You've been nominated for a Women in IT award. Can you tell us more about it?

I was very fortunate to have been nominated for the award by a colleague, Colin Chesterman. We have a great working relationship and he's a fantastic mentor and supporter. Colin put me forward for the award speculatively to try to help me feel confident about my achievements and raise my aspirations of what could be next in my career. I don't think he really expected me to be shortlisted but we were both thrilled when we received the email! The other shortlisted women are all incredibly impressive and are doing great work.

It's a fast moving industry. What do you think the next big thing in IT is going to be?

A trend that we're seeing a lot at Dropbox is the so-called 'consumerisation of IT', where people no longer want to use clunky IT-sanctioned tools to get work done. They're coming to expect the same ease of use from

the tools they use at work as they get from technology in their personal lives. You just have to look at the proliferation of the iPhone as well as solutions like Dropbox Business to see this movement in action. For example, Dropbox has been taken into eight million businesses across the world by users who want to use it for work purposes, and today we have 200,000 paying business customers.

What advice would you want to pass on to someone contemplating a similar career path?

I would encourage anyone considering a career in tech to think about which teams and roles they're excited about. The options within a tech company are vast, from engineering to sales to finance and beyond, so focusing in on a particular space is quite important. If you can find a company offering a rotation programme or graduate scheme, that's a great way to try out different roles and find which ones you'd like to pursue. The biggest thing I've learned is that it's very important to be used to change and being able to adapt: start-ups move very fast, so being able to accept that and thrive on that ambiguity is very important. ■

Johnny Latham (2015, Continuing Education)

Co-founder and Director of Extended Service at One-Eighty



Johnny Latham

Johnny Latham (2015, Continuing Education) is the co-founder of One-Eighty, a psychology behaviour support charity for children, young people and families. He has recently completed his research Masters at St Catz in applying cognitive behavioural therapies to families with complex needs. He shares the story of his childhood, why he founded One-Eighty and how he came to win the Vice Chancellor's Social Impact Award.

What is One-Eighty all about?

One-Eighty is a psychology behaviour support service. Any young person aged four to 18, and their family, can receive support from us if they are identified as struggling in their school, family or community. This might manifest as struggling behaviourally, emotionally or socially, or as an emerging learning difficulty. We do an assessment to identify what the struggles are and then put in a plan of what they need. We're quite intensive - over a period of six to 12 weeks we usually see our clients twice a

Social workers tend to only be able to support through monitoring and intervening if something happens where as we are there to resolve things before they develop.

week, individually and also as a family. Three caseworkers are assigned to each family to make sure we are able to apply all the necessary skill sets to them. It's very different to what they get through the normal avenue of children's mental health services in the NHS. As we're a charity it allows us to really spend time exploring the issues and making it a sustainable change. Plus, it's not just therapy, they can get tutoring and other skills through our service – anything we think the family needs to help them turn things around.

What are some of the challenges that young people you work with face?

Things have changed so much in the last few decades. Young people these days are exposed to all sorts of stimuli and face social pressures that didn't exist for those in the previous generation. There are lots of unforeseen side effects of these which require

a different, innovative approach. We interact with social services, who are appreciative for the work we do – their caseload is so high. For some families we look a lot like social workers, but in reality we are much more. Social workers tend to only be able to support through monitoring and intervening if something happens. We are there to resolve things before they develop.

What makes One-Eighty unique?

As far as we know, through the statistics released each year, the work we do we has the highest success rate in the south east. In 2015 we won an award for our cutting-edge approach into integrating cognitive behavioural therapy into family work. That means 70 per cent of those who come through our service see change, and for most it is sustainable change which we see over two years. We believe that we may be

the most effective family provision service in the country – but it's hard to make a statement like that when not every service produces statistics measuring their success.

We're limited to working in Oxfordshire, Buckinghamshire and West London because of funding. The grants and donations we receive usually only give funding for short-term projects, and so this means we can't do much planning with regards to future growth. Ideally we would like more support towards our longer-term cases and development.

Why did you set One-Eighty up?

When I was younger you could have described me as one of the young people who we aim to support now. I remember being quite a moody child, who didn't have lots of positive social interactions, as well as uncontrollable hyperactivity. These behaviours pretty much masked everything else going on underneath. I didn't have a bad childhood, and my parents did want to do the right things, but I don't think they knew what to do to help.

I wasn't a criminal, but I did have behavioural management problems that could have led toward criminality. I was fortunate that I had some help, but if that had not have happened then I doubt anyone would have seen the resilient and academic potential in me that would have enabled me to eventually study at Oxford. I had an NHS psychiatrist, and she gave me a lot more time than she should have. I've since spoken with her to thank her for all her support, and she has acknowledged that there aren't enough resources any more to do this kind of intense work, and that's why charities like ours are so important. But my own experiences have enabled me to see that, no matter how complicated the behaviours are or what the challenges might be, there is always a seed of greatness in everyone, even if it hasn't bloomed yet. That's what has driven me on.

I did some volunteering with the youth offending service and I realised that there were a lot of well-meaning people, many of whom had training. But when I asked



what their 'formula' was for changing the lives of those they worked with they quite often replied that they 'play it by ear'. They were skillfully pulling their experience together to try and help the young people, but they didn't have any

plan of where to get to or how to get there once they thought about it

Six years ago I started One-Eighty to work out if there is a formula for changing behaviour. There's lots of research out there, but it



hasn't had chance to be applied. What it says is that everyone comes to a point in their lives where they face a situation and, either consciously or unconsciously, they do some mental maths and ask 'is this going to benefit me?'

So often those young people who are choosing which path to take haven't seen the bigger picture, or have no awareness of there even *being* a bigger picture! And lots of people just look at their behaviour, and don't take into account the rationale behind it. That's what we are about – that's the key for us.

Do you want to increase the scope of what you're doing?

It costs us about £250,000 to run a service, and we've got three at the moment in Buckinghamshire, West London and Oxfordshire. Each year we need to find the funds to keep those going. We sometimes get so preoccupied with that that we don't have the capacity to think about whether other parts of the country need services like this. It needs people who have passion in this area, and those who want to support it in order for it to grow. We've got 16 people working for us, most of them part-time. We've got about 20 volunteers on top of our staff who are trained up to deliver our services, but they have to buy in to what we are about, our methods and ethos. Our team includes

therapists, teachers and social workers – it's a broad mix which means we can work out what our young people need and give it to them. If we can grow that then that would be great.

Your work has earned you the Vice Chancellor's Social Impact Award. What's that like?

I was nominated by someone in the service and then I was invited for an interview, which was quite tough because obviously they wanted to be absolutely sure we were doing what we said we were! It was a bit of a surprise! I won the award and it was presented by the Vice Chancellor during a ceremony at the Blavatnik School of Government. So that was nice! It happened very quickly – you're whisked to the front, they talk to you for a bit and then you're whisked back down again. It's only afterwards that I've had chance to savour the moment and let it sink in.

One final question, why One-Eighty?

Simple. We're about helping turn people's lives around – 180°. We nearly called it Three-Sixty, but then you're just facing in the same direction. Thankfully we spotted that! ■

Dr Rustam Stolkin (1993, Engineering)

Senior Research Fellow in Robotics at the University of Birmingham

Safely disposing of nuclear waste is one of the most significant challenges facing today's society. Remediating the Fukushima nuclear disaster site in Japan is expected to take 30 years. The UK alone contains 4.9 million tonnes of legacy waste from power stations and weapons production, which will take at least 100 years to clear, at an estimate cost of £220bn. Due to radiation hazards, much of this work will be performed remotely by robots. However, in many cases, the necessary technologies and control methods have yet to be developed. This has become a major research focus for Dr Rustam Stolkin (1993, Engineering) and his research team at the University of Birmingham.

Rustam conceived and leads the RoMaNS project (Robotic Manipulation for Nuclear Sort and Segregation), the largest robotics project funded by the European Commission's H2020 programme, spanning five labs in three countries. RoMaNS is developing advanced robotics technologies for 'sorting and segregating' nuclear waste, in which storage containers, some of which are over 50 years old, are cut open to examine and sort their



Doctor Rustam Stolkin (1993, Engineering)

(often uncertain) contents. This reduces the need for more expensive, manual processing and containment methods, which would only be needed for the most hazardous materials. This, in turn, reduces the financial burden on the tax payer.

There is an enormous variety of nuclear objects and materials stored in highly unstructured and uncertain environments. This challenge requires progress beyond current

state-of-the-art robotic vision, machine learning and AI, as well as novel engineering designs of robot arms and hands. Research into this will enable a new generation of smart robots to assist their human operators to overcome these extreme challenges safely and efficiently.

Much nuclear decommissioning work still relies on humans, wearing protective suits and respirators, entering radioactive zones to

carry out potentially hazardous work, such as the remediation work at the Fukushima plant. The aim of Rustam's research team is to use robots to safely remediate the environment for future generations, thus protecting people from hostile environments.

In recognition of his efforts Rustam has recently been awarded a Royal Society Industry Fellowship, which will fund him for the next four years to be part-embedded within the UK nuclear industry to help lead its development of a new generation of robots. Rustam also leads the major robotics component of the UK-South Korea Civil Nuclear Collaboration, and a new £1.75m

project with the University of Essex, who develop radiation resistant electronics and software. He also works with the NASA Jet Propulsion Lab, which has unique facilities for testing robots and their sensors under radiation, and the Japan Atomic Energy Agency (JAEA). Rustam also co-leads a consortium with University of Manchester, a leader in nuclear research, and Bristol Robotics Lab which has won a new £10m project to develop robots for a variety of nuclear applications.

After gaining his MEng in Engineering at Oxford, Rustam earned a PhD in Robot Vision, undertaken between University

College London and industry. After a period in the USA, Rustam returned to the UK to work at Birmingham, where he has recently established the Extreme Robotics Lab (ERL) devoted to robotics for 'extreme environments' which are too hazardous for human workers. ERL has grown rapidly to reach a steady state of around ten post-doctoral research fellows, and a similar number of doctoral research students. The University of Birmingham is now investing in a major new laboratory facility to house the ERL team.

In addition to his research, Rustam has been active in educational innovation and outreach for many years, both in the UK and internationally. He now collaborates extensively with the Royal Institution of Great Britain, running week-long robotics summer schools for school children, and training young engineers from both academia and industry to deliver robotics workshops to schools across the UK.

To see more about Rustam's developments in robotics you can watch videos of his early experiments at <http://bit.ly/year16robots> ■

Below: Robotic hand



Andrew Molyneux

Andy Triggs Hodge OBE (2004, Geography and the Environment)

Olympic rowing gold medalist



Aileen Brennan

It's been a busy year for Andy Triggs Hodge! After winning his third Olympic gold medal at the Summer Games in Rio, he started a new job and he welcomed his second son into the world. We caught up with Andy to ask him about it...

2016 was a significant year for Team GB – its best performance at a Summer games. What was it like for you to be a part of it?

Being part of Team GB is always awesome – the ethic of it is 'one team, one dream'. Whenever you delve into that as an athlete you become part of something bigger, and it's a great thing to be part of. As a rower, I'm usually in my British Rowing gear, but stepping into Team GB kit is a special time in the four-year cycle. Rio was an exciting Olympics and to be able to perform at such a high level, and to be a part of such a successful team, has been a real highlight of my career.

This was your fourth Olympics and you've won three Gold medals. Did you ever imagine you'd reach that level when you first started out?

No, and in fact I was talking about this with a group of kids at a school recently. When I first started out I had no idea what I was letting myself in for, or really what I was capable of. I hadn't really had much interest in rowing beforehand – I was more into rugby and cycling. I actually got a good physiological base for rowing from both sports – the strength from rugby and the endurance from cycling. To be honest

I got a little bored of playing rugby after a while, so a friend suggested that I try rowing. I started in my second year at Staffordshire University in 1998. There wasn't much of a rowing presence, but it was a nice group of people, and there was an emphasis on fitness so it seemed like a good match. I persevered and it soon took off. Little did I know then where it would take me!

Then I got involved with Molesey Boat Club in Surrey, and that's where I started my progression to the team. It was a very fortunate series of events that led me into rowing – things could have been very different, but I'm glad it worked out the way it did.

Rowing has played a significant part of your life and career so far. How did your time at St Catz help you along the way?

The College supported me in my rowing venture and was helped wherever it could to facilitate my rowing with Team GB and, of course, the Boat Race. I remember doing summer eights and it was a very humbling experience. The guys had been training all winter, and two of them – Chris Liwski (2004,

Geography and the Environment) and Colin Smith (2003, Geography) – had just come back from a world cup race on the Sunday afternoon, just before Catz were about to race. They offered me one of their seats in the boat! They were really supportive and were keen for me to help. My experience at Catz show how you can marry the lighter side of the sport with the dedication and passion needed to win. On one side it was ruthless, cutting edge performance and the other side was absolute enjoyment! To have the opportunity to have both so close together was a real gift and I look back on my time at Catz as one of my most favourite times.

It requires a lot of your time, energy and effort to train and compete at this level, but you're also a family man. How do you strike the balance?

It can be tough. Rowing, or indeed any sport, is easier when you don't have dependents. It affects the amount of rest and recovery you can get. There are all the typical pressures too – finances, family responsibilities and other things. But you also do it for your family – they are part of it, be they parents, siblings, partners or children. You're there to

perform, and they get a big kick out of it – it's a part of their life too.

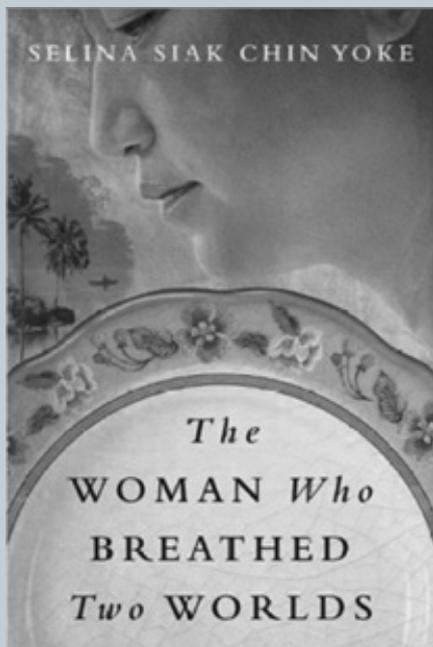
However it is also a sacrifice – I didn't get to spend as much time with them, and there were times when I had to make some hard decisions. But they were very supportive in my choice to carry on, and they invested a lot in my career too. I carry that responsibility on to the water every day. It gives me an emotional fuel to do the best I can.

What have you been up to since Rio?

My wife had our second child, Euan, on 25 October, so that has changed things a bit! And I've also started a new job working for Thames Tideway Tunnel. They are building the super sewer in London, which is a huge engineering project. I'm working with them on their legacy planning. It means I've gone from one environment which is highly focussed, with passionate and professional people in rowing straight into another highly focussed environment with people passionate about building a tunnel under the nation's capital. It's certainly helped me manage the transition so far. ■

News in Brief

The Woman who Breathed Two Worlds (AmazonCrossing, 2016) is the first novel from **Selina Siak Chin Yoke**, a former Atlas Research Fellow at the College. The book tells the story of Chye Hoon, a rebellious young girl who must learn to embrace her mixed Malayan-Chinese identity as a Nyonya, and her



destiny as a cook, rather than following her first dream of attending school like her brother. It has already received positive reviews, rating 4.6 out of 5 on Amazon's US website. It was also included in Goodreads best book of the month list in November 2016.

Commenting on the publication of her novel, Selina said, "I began writing seriously while recovering from chemotherapy in 2010 – writing saved my life. It took me two years to complete the writing of this work, another year to secure an agent, who subsequently sold my novel to an American publisher".

"The genre is historical fiction, the setting British Malaya, the protagonist a feisty woman who eventually starts a business. Family, education and identity are key themes. There's a lot about Malaya in it and also plenty of food!"

• • •

Sashenka Lleshaj (2012, Russian & East European Studies) has been appointed as an advisor to the Albanian Minister of Foreign Affairs. The appointment has been made through the LEAD Albania fellowship

programme which aims to provide Albanian professionals with first-hand government experience.

• • •

William Marshall (1963, Biochemistry) has published *Clinical Chemistry* (Elsevier, 2016). The text, now in its eighth edition, considers what happens to the body's chemistry when affected by disease. Each chapter covers the relevant basic science and effectively applies this to clinical practice. It includes discussion on diagnostic techniques, patient management and makes regular use of case histories to emphasise clinical relevance. It summarises the key points in each chapter, providing a useful starting point for examination revision.

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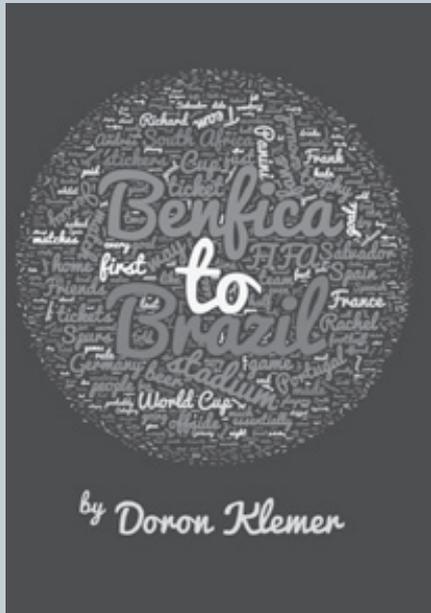
After spending many hours in the JCR bar and the excellent pubs of Oxford, **Trevor Jeffrey (1982, Chemistry)** thought it was inevitable that he would get into a career in brewing. He has opened Billericay Brewing,



a microbrewery specialising in a range of craft beers which he sells in its shop and micropub, as well as shops, pubs and bars across Essex.

• • •

Doron Klemer (1996, Modern Languages) has released *Benfica to Brazil* (2016, CreateSpace) in which he charts his travels in the 16 years since he graduated from Catz, mainly following football and the World Cup around the world whilst doing various jobs and learning a dozen languages.



• • •

Commuters in the home counties had their traffic jam frustrations soothed by the wit and charm of Catz Alum **Olly Mann (2000, English Language & Literature)** in the summer. Olly was covering the drive-time slot on BBC Three Counties radio while the usual presenter was away. He also covered the same slot for BBC Northampton in September.

Olly also landed a spot on BBC Radio 4's Monday evening schedule in December. His show, *The Male Room*, covered issues relating to male emotional intelligence, insecurity and what manliness means in the modern world. Episodes covered topics such as inadequacy, anger and heroism. ■

If you have news that you want to share with the College and the wider Catz community then we would love to hear from you. Visit www.stcatz.ox.ac.uk/tell-us-your-news to get in touch.



Guy Bell

College Events 2017

<i>Saturday 11 March</i>	Parents' and Freshers' Lunch
<i>Thursday 23 March</i>	Hong Kong Dinner
<i>Friday 24 March</i>	Singapore Drinks Reception
<i>Saturday 29 April</i>	Dean Kitchin Circle Lunch
<i>Saturday 20 May</i>	Society Gaudy for pre 1962 Matriculands*
<i>Thursday 8 June</i>	London Party
<i>Saturday 17 June</i>	Parents' and Second Years' Garden Party*
<i>Saturday 24 June</i>	Gaudy for 1993 - 2002 Matriculands*

*Invitations for these events will be sent out nearer the time

To book your place on any of these events, please contact the Development Office.

Email: development.office@stcatz.ox.ac.uk

Tel: +44 (0)1865 281 596

**For more details and updates on further events check the college website
www.stcatz.ox.ac.uk/events**

The College Time Capsule

The College Enigmatist, **Chris Maslanka (1973, Physics)**, offers the next clue, in a series of 50, to the contents of the time capsule buried underneath St Catherine's College...

Boys – and their toys

The clues so far:

1. Two thirds of my number is one and a half times what I am.
2. Pooh in 1927, true of us today?
3. Do they belong to longevity?
4. The first 6000 flowers.
5. A good hiding...
6. Six of one and half a dozen of the other.
7. Initially he found like an insect...
8. Bovine comes to river
9. To each his own
10. Do men gather grapes of thorns...
11. List: Order half a dozen pears. Ordered.
12. Entry will cost you 32.5p – in old money
13. Twelve characters alternate around a wheel
14. Boys – and their toys

Data Protection Laws are changing

How will it affect communications from St Catherine's College?

The College is fortunate to have a thriving community of students, Fellows, Alumni, Parents and Friends. It is part of what makes St Catz the wonderful place that it is today. We always enjoy welcoming people back at our gaudies, reunions and parties, and we are thrilled that so many read our publications, including *The Year* and *CatzEye*.

We do, however, face a major challenge in the coming years. The Data Protection Laws are changing, and a time is coming soon when we will only be able to invite you to our events, inform you of our achievements, let you know about our latest news and products, and invite you to support the College, if you have formally consented to being contacted. The new law is called the General Data Protection Regulation (GDPR) and it is expected to come into effect in May 2018.

It is a wide-ranging law, which will govern how organisations use the personal data of their supporters. Although it is some time before the GDPR comes into effect, we are acting now to gather permission from our Alumni and Friends to ensure that we don't lose contact with you when the law changes. If you haven't already done so, please fill in the contact permission form on the St Catz website at **www.stcatz.ox.ac.uk/contact-permission**

On that page you will also find a link to the Information Commissioner's Office website, where you can find out more information about the GDPR. If you have any further questions please contact the Development Office by calling +44 (0) 1865 281 591 or emailing development.office@stcatz.ox.ac.uk



Family Day 2016



Gaudy for 1983-1992 Matriculands 2016



Parents and Second Years' Garden Party 2016

Paul S Davies

Fellow, Tutor and Associate Professor in Law

Paul read Oriental Studies (Japanese) and then Law at Downing College, Cambridge, and spent a year in Poitiers studying French Law. After graduating, Paul worked in the Property and Trust Law Team at the Law Commission, and was called to the Bar by Lincoln's Inn. Paul came to Oxford in 2013, where he teaches Contract and Trusts at undergraduate level, and Commercial Remedies and Restitution on the BCL. Here shares some of his research highlights from the last year.

My primary research interests lie broadly in private law. I am interested in the obligations that private parties owe to one another, especially in the context of commercial litigation. The law in this area is largely developed by judges through decided cases, rather than legislation, and the somewhat piecemeal development of the common law can sometimes produce confusing and inconsistent decisions. Much of my work tries to identify the principles that underpin

liability, and suggest sensible ways for the law to develop.

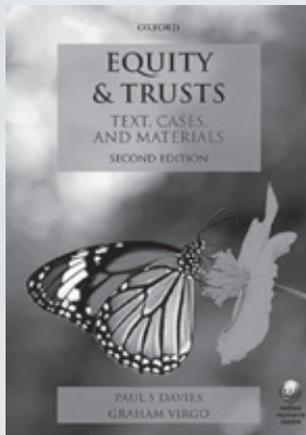
Some of my publications are aimed towards practitioners and judges, and in 2016 articles or books I have written were cited by appellate courts in England, Canada, Singapore, New Zealand and Australia. Such work helps to inform the teaching that I do, and fits well within a system of “research-led” teaching. But I also find “teaching-led” research to be very helpful, and I enjoy writing for a student audience. In 2016 I published the second edition of *Equity and Trusts: Text, Cases and Materials* (with Professor Graham Virgo) and the first edition of *JC Smith's The Law of Contract*, both with Oxford University Press. Both books have been informed by teaching undergraduate tutorials in both Trusts and Contract.

One of the advantages of being a tutorial Fellow in law at St Catz is the opportunity to discuss difficult problems with some



exceptional students. For example, between the first and second edition of *Equity & Trusts*, there were no less than seven major decisions of the Supreme Court that required much of the text to be entirely re-written. My thinking on all those cases developed through analysing them in their immediate aftermath with some very talented students. Both the *Equity & Trusts* book and the *Contract* book have similar aims: to set out the law as clearly and concisely as possible, without over-simplification which would make the text misleading. They also intend to challenge the

reader to develop his or her own views on whether the law is currently in a satisfactory state. Leading tutorials, and testing chapters on students, helps me to identify which ideas are especially difficult or not presented particularly clearly, and hopefully to produce



books which will influence the next generation of lawyers. At a time when textbooks are not looked upon favourably within the Research Excellence Framework, I think it is nevertheless important that academics do not shy away from writing good books for students.

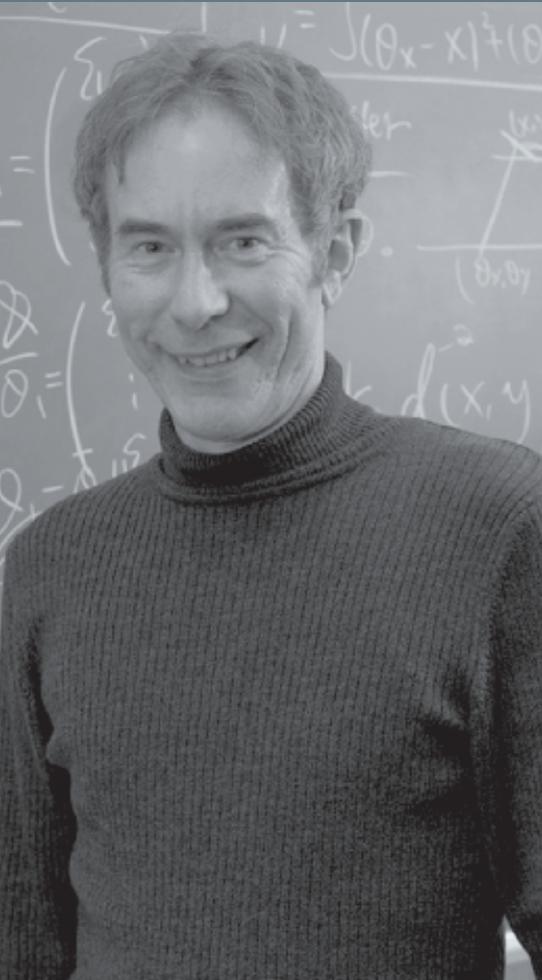
Writing these textbooks has also helped other areas of my research. Not least because they have forced me to think about topics I would otherwise brush over, and by highlighting areas which are hard to explain or particularly unclear I have been able to identify further avenues of research. This was one factor that led me to organise, together with Professor James Penner, a conference on Equity, Trusts and Commerce, which was held at the Supreme Court of Singapore and the National University of Singapore in April 2016. Experts from across the common law world came together to discuss a range of issues currently troubling the courts in these difficult areas of equity and commercial law, and an edited collection of the essays presented at that event will be published early next year.

I have also continued to work on a major project concerning the liability of third parties in private law. For example, it is clear that a person may be liable for committing a breach of contract, a breach of trust, or a tort, but when should a third party be liable as an accessory for assisting, encouraging or inducing that private law wrong? This is an area which judges have often failed to tackle in a convincing way, and my monograph on *Accessory Liability* (Hart Publishing, 2015) sought to highlight some of the difficulties and propose a coherent way forward. A lightly revised paperback version of this book will be published in Spring 2017, and over the last year I have enjoyed collaborating with others who have engaged with my work. In particular, it was a privilege to write with Sir Richard Arnold, a High Court judge, on authorisation liability in intellectual property law, and with Sir Philip Sales, a Lord Justice of Appeal, on conspiracy in private law. I hope that my work will continue to lead to collaborations with both practitioners and other academics. ■

One of the advantages of being a tutorial fellow in law at St Catherine's is the opportunity to discuss difficult problems with some exceptional students.

Ian Shipsey

Fellow by Special Election in Physics and Professor of Experimental Physics



Professor Ian Shipsey is an experimental particle physicist. He seeks to understand how the universe was born, how it will evolve and how it will end by using particle accelerators and telescopes. The cameras that he works with have allowed scientists to capture evidence of the Higgs Boson particle, a landmark development in the scientific community.

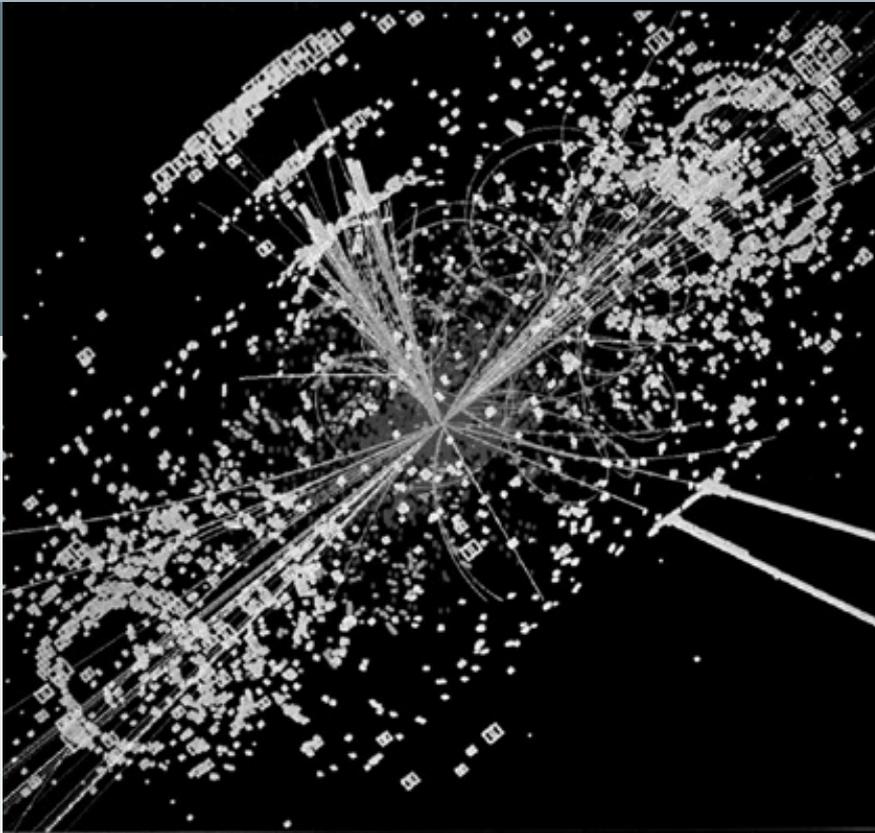
The principles behind Ian's cameras are the same as an everyday smart phone or digital camera. Light particles, or photons, pass through the lens of a camera and hit a small sensor made from silicon. This sensor is made up from a grid of tiny electro-sensitive cavities. After the exposure finishes the electric charge generated in the cavities is converted into the digital information used to generate an image.

Ian's cameras work in the same way, but instead they capture the energy that is released when particles collide in a particle

accelerator. His experiments give an insight into what was happening at the very beginning of the time – mere fractions of a second after the universe came into being. Scientists can then begin to understand how all the matter and energy in the universe came to be.

At the beginning of time, there was physically not enough space for all the matter in the universe that exists now. As the universe expanded mass was created. According to Einstein's Theory of Special Relativity, mass and energy are interchangeable – one can be created from the other. This is expressed in what is possibly the most famous equation: energy equals mass, multiplied by the square of the speed of light, or $E=mc^2$.

This equation demonstrates that mass has energy and that 'something tangible' (mass) can be created from 'something intangible' (energy).



The Higgs Boson is believed to be responsible for giving mass to particles which, according to the Standard Model of physics, should be massless

In a particle accelerator when two particles of matter collide, the energy released from each particle upon collision counts as 'extra energy' meaning more mass is made. The Large Hadron Collider is just one of these particle accelerators. Scientists track

the movement trajectory of the particles produced in the collisions. The momentum of the particles is determined by their charge/mass ratio. The shape of the path tells scientists what this charge/mass ratio is, and therefore the identity of the particles.

The Higgs Boson particle (pictured) was captured on camera in 2012 using the Large Hadron Collider. It is believed to be responsible for giving mass to particles which, according to the Standard Model of physics, should be massless. Its presence indicates that mass has, or is about to be, made, giving us a snapshot of what would have been happening at the beginning of time.

As well as studying the smallest particles in the universe, Ian's cameras are being used to capture images of the universe itself - the very opposite end of the size scale! The Large Synoptic Survey Telescope, currently under construction in Chile, will be the most powerful ground-based optical survey telescope ever built.

Every 35 seconds the cameras will capture images of the universe at a level of detail never seen before in history.

Scientists will be able to study changes in the composition of the universe as they take place, and the general public too will be able to see the images from the telescope in real time online. ■

Tom Phillips CBE RA

Honorary Fellow and Alum



Roger Ainsworth

Fifty years after he purchased his second-hand copy of W H Mallock's *A Human Document* for threepence, Catz Alum and Honorary Fellow Tom Phillips CBE RA (1957, English) has completed his long-standing literary art project *A Humument*.

It's one of the most unusual, beautiful and artistic pieces of literature ever conceived. It took half a century for the final version to be completed, but at 367 pages long *A Humument* stands as one of the most intricate and detailed literary arts projects of recent times.

Author and artist Tom Phillips began work on the project after being inspired by William Burroughs innovative use of the cut-up technique. Words from text are lifted out and rearranged in such a way that a new story, narrative or thought is created. Burroughs had used the technique on his novels *The Soft Machine* and *Nova Express*. After

experimenting with the cut-up method on copies of the *The Spectator*, Phillips sought an opportunity to transform an entire book into the style.

On a routine visit to Austins Furniture Repository in Peckham, Phillips bought Mallock's nineteenth century novel *A Human Document*, a fictional, anti-socialist commentary on Victorian life. Phillips set to work on his project straight away, and page 33 became the first of many to be transformed into a work of art.

Phillips discovered a story hidden among the re-ordered words of the page. He named his main character 'Bill' after the author of the original text. He then set about telling Bill's story by scoring out the unwanted words from the pages. By 1973 he had completed his first full version of *A Humument*. The book inspired *Irma*, an opera based on the content,

The work is colourful, rich and painstakingly detailed. Phillips has utilised his own version of the cut-up technique and used collage and painting to bring each page to life.

which was performed at a number of venues including the Bordeaux Festival. However, not being satisfied with his masterpiece, Phillips resolved to do re-do the whole book, releasing five iterations before the final version this year.

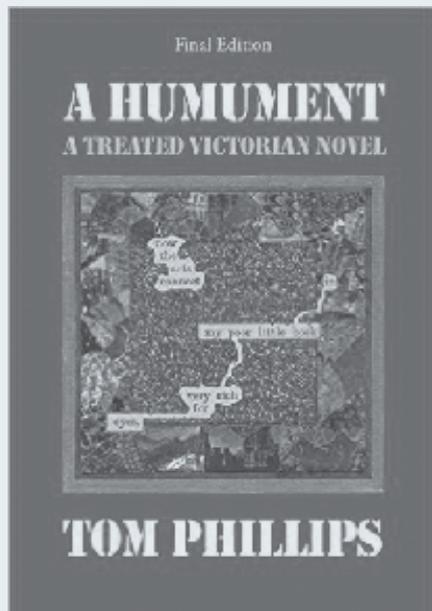
The work is colourful, rich and painstakingly detailed. Phillips has utilised his own version of the cut-up technique and used collage and painting to bring each page to life. By preserving words, highlighting them

by obscuring others, he has articulated the hidden story of *A Humument*, and has done so with grace and humour. The narrative weaves and through each page supported by surreal illustration and vibrant colour.

To mark its launch The Bodleian hosted an evening with the author and a panel of speakers including Dr Gill Partington (University of Warwick), Dr Julia Jordan (UCL) and Professor of English Literature Adam Smyth from Balliol College.

They covered the fifty-year history of *A Humument*, Phillips' inspiration for it and its legacy as a creative literary arts project.

In addition to the physical editions, *A Humument* is also available as an iPad app, and the full collection of works is available to preview on Tom Phillips' website at www.tomphillips.co.uk ■



Tom Phillips was elected to the Royal Academy in 1984 and was awarded his CBE in 2002 for his services to the arts. Among Phillips' other work are paintings, mosaics, sculptures and memorials. He has contributed towards the urban renewal of Bellenden Road in Peckham, with artistic street lighting and an archway to the McDermott Road community garden. He has also provided memorials at number of public spaces including the metalwork Armed Forces Memorial at Westminster Abbey and a painting at the Cardiff University School of Biosciences. As an Honorary Fellow Phillips is no stranger to St Catherine's – his tapestries adorn the walls behind High Table in Hall.



Bruce Levell

(1972, Geology)

Research Associate and Visiting Professor at the Department of Physics

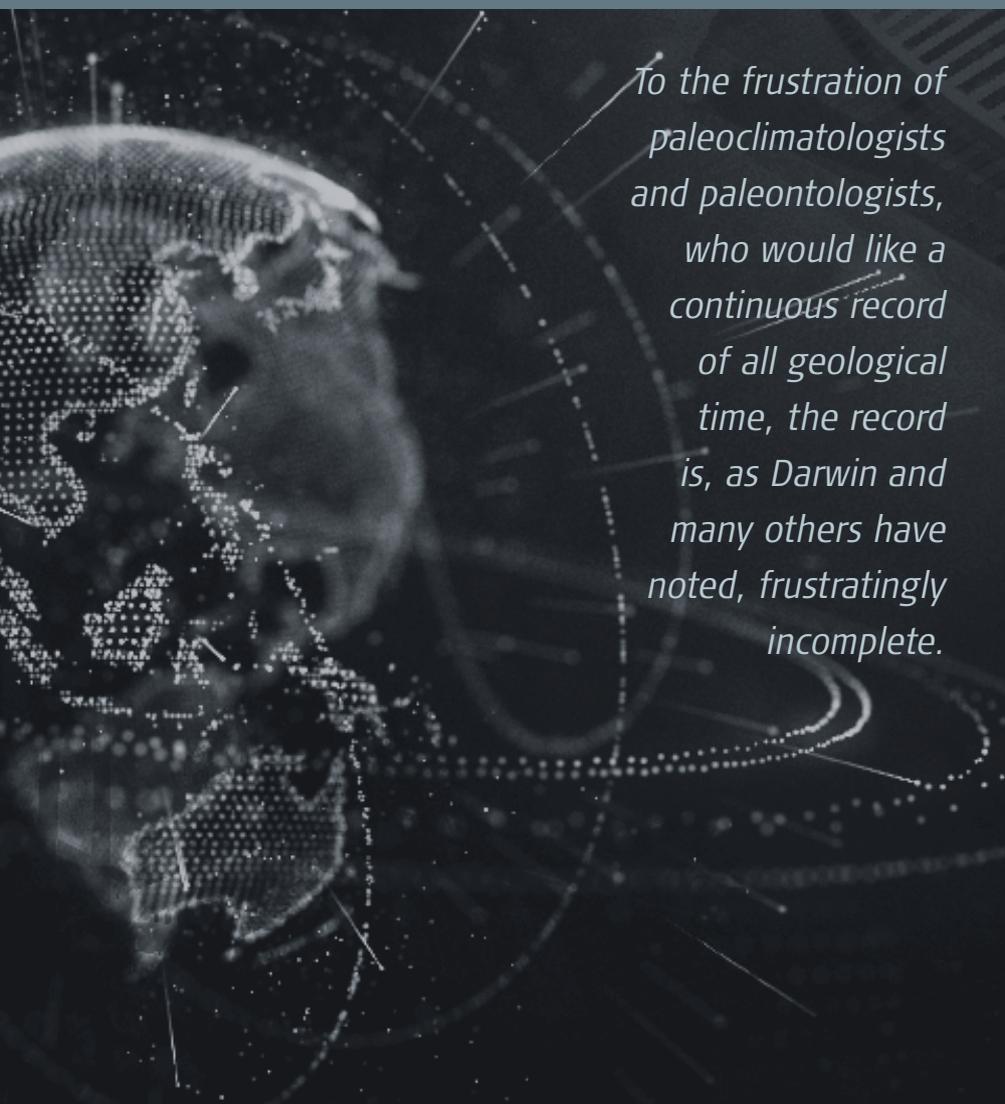


I am both a graduate and postgraduate of St Catherine's, starting my undergraduate degree in geology in 1972. After my studies, I began a career in exploration and research with Shell as Chief Scientist for geology. I ended up as VP for Emerging Technology and Alternative Energy - a very wide scientific brief with responsibility

for finding ways for Shell to deploy its capabilities in a low carbon world. This led to an ongoing interest in the transition of energy sources, in particular the technological challenges associated with the scale and timeline of the transition.

In 2013 I became a Visiting Professor at the Department of Earth Sciences at the University of Oxford. Currently popular fields of research in Earth Sciences include understanding the Earth's past climate and the processes governing it, piecing together the record of life on earth and evolution, and understanding geo-hazards such as earthquakes, tsunamis and volcanoes. Alongside that we seek to understand the physical and chemical processes driving these surface phenomena and plate tectonics in general. Somewhat less fashionable, but still important, is the understanding of the occurrence of earth resources, such as metals, fuels, water and heat. The first two of these primarily use the archive of earth's history found in sedimentary rocks. My own research aims to address the question of why particular sediments ended up being preserved whereas others were





To the frustration of paleoclimatologists and paleontologists, who would like a continuous record of all geological time, the record is, as Darwin and many others have noted, frustratingly incomplete.

removed from the record. To the frustration of paleoclimatologists and paleontologists, who would like a continuous record of all geological time, the record is, as Darwin and many others have noted, frustratingly incomplete.

The work-around for scientists is to assemble a composite record from the most complete sections available. However this doesn't address the question as to whether, for the bulk of sedimentary rocks, the incomplete records are random or systematically biased (or both in different circumstances). I'm looking at this problem in a general sense across a range of depositional environments and specifically with field work on examples of extreme preservation bias. For example, I am examining 'monotonous' sequences of only one rock type, using it to represent the more easily preservable parts of an ancient depositional environment and establishing how the remainder were erased from the record. I'm also using a knowledge of oil industry data and techniques to help researchers combine offshore seismic and onshore outcrop data in the study of tectonic problems in Oman. ■

Laura Tunbridge

Fellow, Tutor and Associate Professor in Music



Laura studied music at The Queen's College before completing an MA at Nottingham and a PhD at Princeton. Before joining St Catz in 2014 she taught at Manchester and Reading universities. Now she teaches 19th and 20th Century music to undergraduates and postgraduates.

Her research concentrates on German Romanticism, and she has a particular interest and expertise in the work of the composer Robert Schumann. Her work on his late style considers Schumann's compositions from the 1850s and how their interpretation and evaluation has been informed by his biography – Schumann suffered from mental illness in his later years and subsequently died in an asylum.

Schumann's late works differ significantly from the compositions for which he is most famous – *Carnaval* (1834), *Kreisleriana* (1836) and others. His musical style became far more varied as he experimented with

different genres. Many have speculated that his divergence from his usual style is evidence of 'creative failure' brought on by his mental health. Laura argues that his late style changes were deliberate – an attempt to satisfy the musical fashions and trends of the day. She goes on to suggest that to fully appreciate his final works we must cast aside any prejudices or preconceptions based on his state of health. Instead Schumann's late works, such as *Mädchenlieder* (1851), *Der Rose Pilgerfahrt* (1851) and *Missa Sacra* (1852), should be evaluated, and appreciated, on their own merits.

Laura's most recent research project is an investigation into vocal recitals in London and New York during the 1920s and 30s examining transatlantic relationships, the politics of singing German-language song during the interwar period, and the links between live concert practices and early recordings, radio and sound film. ■

News in Brief

The future of energy production has long been a source of concern for scientists. Now, following a recent discovery by a team including Catz



Fellow **Professor Peter Edwards**, one answer could lie in the safe use of hydrogen for powering vehicles.

The main obstacle facing scientists working on hydrogen-powered fuel cell vehicles has been finding a storage method that does not put drivers and passengers at risk. That obstacle could soon be overcome by using benign hydrocarbon wax as a storage medium.

The research team from the universities of Oxford, Cambridge and Cardiff in the UK, and the King Abdulaziz City for Science and Technology (KACST) in Saudi Arabia, has shown that hydrocarbon wax rapidly releases large amounts of hydrogen when activated with catalysts and microwaves. Hydrogen is extracted using a non-oxidative dehydrogenation process which means that it produces no carbon dioxide, and it is readily available utilising biomass or other renewable feedstocks, making it better for the environment too.

This discovery, published in the journal *Scientific Reports*, may help unlock the longstanding bottleneck hindering the widespread adoption of hydrogen fuel technology. Professor Edwards, who co-authored the study, leads the KACST-Oxford Petrochemical Research Centre. He commented that “this discovery of a safe, efficient hydrogen storage and production material can open the door to the large-scale application of fuel cells in vehicles. Instead of burning fossil fuels, leading to CO₂, we use them to generate hydrogen, which with fuel cells produces electric power and pure water. This is the future – transportation without CO₂ and hot air.”



Using microbubbles to transport and target chemotherapy drugs could open up new possibilities for cancer treatment. Catz Fellow and **Professor of Engineering Eleanor Stride** has been working with a cross-disciplinary team from the University to explore the opportunities the possibilities of using this method



to improve the effectiveness and of radiation and chemotherapies.

Eleanor is working with colleagues at the Old Road Campus in Oxford; Professor of Biophysics Boris Vojnovic and Professor of Experimental Clinical Oncology Anne Kiltie. With each member of the team specialising in a different area of biomedical science they are able to explore approaches to cancer treatment which may not have otherwise been obvious. They hope to find a way to deliver the treatment more efficiently while at the same time limiting the toxic side-effects when radiotherapy and chemotherapy are used in tandem.

The method being researched involves encapsulating the chemotherapy drugs in Eleanor's microbubbles and delivering them through the bloodstream or by injection into the specific area of the body. The drugs are released near the tumour by 'popping' the bubbles using ultrasound waves. They are then supplemented by using targeted radiotherapy. It is hoped that such a targeted approach will limit the harmful side effects on healthy tissue in the same area.

If their early experiments prove to be successful the team will seek the possibility clinical trials on bladder cancer patients. ■

Obituaries 2016



DEREK DAVIES

There was a thanksgiving service for Derek at the New College chapel in October. Here, we share tributes from two of the people who spoke at it:

"Derek's death in March was an occasion for the greatest sadness not only for Margaret, Philip, Ros, Andrew and all of his beloved grandchildren, but also for a host of other people whose lives he had touched. It is to his qualities as a tutor, then a colleague and friend that I shall address the bulk of my remarks today, but I shall begin with him as a family man.

One of the earliest recollections that Jean and I together have of Derek, Margaret and the three (then) small children is of when we were invited to Boars Hill for drinks and more, probably in our final year. We recall the joliness of the event, with the youngsters playing the fullest of parts – just the sort of family occasion, with others joining in, that

makes one contemplate how best to do things oneself when blessed with children. I think I remember that Philip and Ros were particularly fond of Andrew, the fairly new arrival, though I do hope he has recovered from being looked after by them rather more as though a doll than as a person!

Like so many here today, my first meeting with Derek was at my interview in St Catherine's. I recall how kind he was to me, though, unless I am mistaken, he did not ask me why I wanted to read Law – probably just as well that he did not, since my (honest) response would have been, "It was my school's idea, not mine". Perhaps he thought that I might pick it up as I went along...

Derek would not have wanted me to wax lyrical about his qualities as a tutor, but I believe that he will forgive for doing so. I know that, around me, all of his former students will support me when I say that he provided a model for what a tutor at Oxford should be. Anyway, I have, most certainly, in my 35 years as myself a tutor here in Oxford, sought to follow his example, albeit in my own way.

What, then, was it that stood out in his teaching of and care for his pupils at the College? Well, it began, but by no means ended, with his own formidable

intellectual power and authority. Though a hard taskmaster who expected a great deal of those in his charge, that never amounted to more than he would give himself. I am sure that he would have approved of the great Gary Player's response when "accused" of being a lucky golfer – "Yes, you are quite right – and, you know what, the harder I practise, the luckier I get".

To those students that did not quite make it, when they could, he was disappointed, never angry. Where a pupil did their level best, but came up short, he offered all in his power to help them do as well as they were able. Generation after generation came to recognise, because of his guidance, what they might achieve, and, even more importantly, that they really had a duty to themselves to put in the thought, work and effort required to achieve it. Every single one of them was treated as an individual. In turn, each of those individuals not only held him in high esteem, but also had great affection for him.

One piece of testimony to his efforts is the success, however measured, of so many of those that he taught, in the varied careers that they followed, usually in law, but not necessarily. Indeed, when I asked him, on his retirement, what had given him most pleasure in his career, his immediate response was, "My pupils, of course".

When I took up my Fellowship at Jesus in 1981, Derek and Margaret were first to visit us, then ourselves with a baby and a toddler. One thing Jean and I will never forget was his advice to us, when we demurred at the prospect of being able to afford to send our children to the Dragon School; it was, simply, "You never know, so just put their names down". So we did, and our son went there, in due course, and enjoyed his time there tremendously.

The movement from tutor to colleague and friend is not always easy; indeed, there are those that can never quite make that movement. But Derek did it with grace and his customary simplicity. Though our respective legal interests were different – I never really did see the point of equity, though Derek never gave up hope of me grasping it – his judgment of any legal point was that of the truly fine lawyer. When you come to a really difficult point in your own area, resist the temptation to ask another expert, going instead to someone that really understands how law works as a *discipline*.

For almost 20 years after Derek retired, he remained the first person to whom my predecessor as Editor of the *Law Quarterly Review*, Francis Reynolds, would ask for advice about a submission in the trusts/equity area, and I followed his example when I took over as Editor at the beginning of 2014.

Derek's brain remained as sharp, as discerning and as open-minded as it had been when I first came across it in 1968.

I should not neglect Derek's gifts to St Catherine's and to the University. For the College, the drafting of its incorporating charter, as well as its Statutes and By-laws, was very largely his work. I understand that he invented, and saw implemented, the committee structure by which college business was to be (and still is) conducted, in addition to defining the categories of fellowship held. Later on, he twice served as Pro-Master, first, from 1971 to 1973, during Alan Bullock's tenure as Vice-Chancellor, then during the period from 1980 to 1981, between Bullock's retirement and Patrick Nairne taking up the Mastership.

For the Faculty and the University, he served as Chairman of the Faculty from 1964 to 1968, then Chairman of the Faculty Board from 1975 to 1977. I treasure a photograph of him smiling whilst serving as Senior Proctor in the year 1963/64. The post of Proctor – Junior for me – was one that I assumed in 1989/90, and so I know why he was smiling, though I could never work out how he managed to stay quite so slim, with all of that feasting to which we were exposed.

What I do know is how conscious he would have been of the importance of *how* one

does business in the collegiate context. Indeed, he brought to all of the kinds of administrative task that he performed in Oxford an acute political sense that told him what needed to be done, and how, as well as who was likely to be difficult about it, and why. Still, though he did far more than his share of administration, his view of it remained throughout that, though the importance of doing it both efficiently and positively was very great, it must not divert him from his essential task. As he put it: "Academic life is best enjoyed academically".

I conclude with two more personal recollections. It was at the Davies house on Boars Hill that I first heard Wagner played. He was kind enough to start me and the other students there with the *Ride of the Valkyries*, which may be accounted something of a 'lollipop' by devoted Wagnerites, but I got the bug – and still have it. Secondly, he loved fine wine, especially Moselle and Champagne. So does this former student, who well remembers, with Jean, sharing a bottle of (I think) Taittinger with Derek and Margaret, on his birthday, before we set off for Florida about a month before his death.

We shall all remember him with love and affection, and miss him terribly. The mould was broken when Derek was made."

Kindly provided by Professor Peter Mirfield (1968, Law) for Derek Davies' Thanksgiving service

"Derek had a great sense of fun and mischief, which is probably why I am standing here today. I have no doubt that he is looking down on this assembled throng enjoying what is being said and particularly enjoying the fact that with a gathering of so many eminent lawyers, Professors, Judges and at least one High Court Judge, that for some reason unfathomable to me, I am the one standing here. I practise in the field of criminal law and have been called many things in my time, but rarely if ever, have I been called a lawyer. And one of the first people to have realised that I was never going to be a proper lawyer was Derek. But he never really held that against me.

Unlike many of you here, Derek was not one of the first people I met when I came up to Oxford, for back in December of 1984 when I came for interview he was on Sabbatical and so it was Eric Barendt who must take the blame for me spending three of the most enjoyable years of my life at Catz.

My year was somewhat nervous about meeting the great Derek when he eventually returned, but we need not have been. He welcomed us as if he had hand-picked us himself and told us all at various stages that he would not have made any different selections had he been interviewing. Well he certainly told us that before Finals results

were announced, whether he still felt the same afterwards, only he knew but he was kind enough, certainly in my case, never to reveal that he had changed his mind.

I was destined never to be one of Derek's star pupils. I have to confess, that rather like Professor Peter Mirfield (who gave the first tribute), Trusts and Equity never really gripped me, even when I had the assistance of the Trusts and Equity nutshell guides. But Derek persevered. He also taught me Tort and I am afraid I still feel that bead of cold sweat running down my back when I think of one particular tutorial.

As those of you who have had the benefit of the Oxford education know, there is nowhere to hide in a one-to-one or two-to-one tutorial and so it was on the occasion that we were discussing the case of *Anns and Merton Borough Council*. Back in 1986-7 economic loss was a hot topic in the field of tort and the *Merton Borough Council* had been sued after a block of flats had started to fall apart because it was said that they had allowed the building to be constructed with too shallow foundations.

The lead judgment in the House of Lords was given by Lord Wilberforce in which he set out a two-stage test. The two-stage test though was not, it must be said, given particular prominence in the head note. The day of

the tutorial came round and I remember thinking how well I was doing until Derek asked me about the two-stage test. Even now I remember squirming in my seat as I had to confess that I probably hadn't got to that part of the judgment. Derek said very little but the look he gave me said it all. I had disappointed him. Well 30 years on, still carrying the guilt of that day and in preparation for this eulogy, I have now finally read the judgment, head note and all including the two-stage test. In my defence, Lord Wilberforce didn't get to the test until 38 pages in, which back then was quite a lot of pages to read! What I have also discovered is that the case was overruled about five years after I studied it. So I like to think of myself as a far sighted visionary who saw that there was little point in reading the case as it clearly had a limited shelf life. Well, that is my version of events and I am sticking to it.

Well enough about me, what about Derek? What do I remember, well as you have gathered not a lot about the law, but that was my fault not his. But of Derek, he was generous, kind, mischievous, interested and ultimately a friend.

The earliest memory I have was of his drinks parties. Some tutors served sherry, but not Derek. Champagne or a decent Australian sparkler was the order of the day. Seaview was I recall a particular favourite which has led me on to a life-long love of Australian wine.

I also discussed with him what his favourite champagne was, Krug. I haven't drunk very much Krug, which is something I hope to rectify, but I agree whole heartedly with Derek's opinion that it is pretty good!

Next, mischievousness. At one of the early formal dinners we had, asparagus was served. I come from Coventry. I don't think I had ever seen asparagus before. Derek watched us all with interest as different people attacked it in different ways, before he finally picked his up with his fingers announcing that he always enjoyed watching how the Freshers dealt with asparagus. There was always a mischievous glint in his eye.

When I went down from Oxford I kept in touch with Derek and Margaret. They came to Gray's Inn when I was eating my dinners in preparation for my call to the Bar and Derek told me he had never dined at Gray's Inn before. They came and stayed with my wife and I in Birmingham shortly after we were married. It was a most entertaining evening with Derek and Margaret regaling us with stories about how they used to load the family up in the car and drive across Europe and Eastern Europe years before the Berlin Wall came down and other such adventurous trips.

I came to see Derek when I was appointed Queen's Counsel in 2011 and showed him the kit and talked about the day. Then last

year, thankfully, Stephen Hoyle another of his former pupils and a Saturday tutor and I came to Oxford and took Derek and Margaret out for lunch and again had a fantastic time.

Why did I keep in touch? Because I know that I would not be where I am today, QC and Leader of the Midland Circuit, without the start and encouragement that Derek gave me. He was a truly exceptional man. He saw things in his students that I am sure other tutors did not see. Nobody ever saw me as a great academic, but he saw something in me that he knew could be developed.

Peter has already mentioned the Sunday lunch that Derek and Margaret held at Boar's Hill each year on the weekend before the start of Finals. The invitation could not be refused. In 1988 it was a gloriously sunny day and we ate out in the garden. I helped Derek clear the plates away and I shall never forget the conversation I had with him in his kitchen. "Richard", he said, "Oxford has been good for you". What I subsequently realised he was saying was that my results were not going to be helping Catz trouble the top of the Norrington table. But he was right. Oxford was good for me. And in particular, Derek was good for me.

I may not have distinguished myself in finals, it was not my fault that they split

the second the year before I took them, but I hope that I made Derek proud of what I have subsequently achieved. He followed the careers of all of his former students, and it is a tribute to him that so many have come back today. He gave me confidence, he gave me self-belief and ultimately he gave me friendship and it has been real honour and privilege to be here today to share with you all and in particular Margaret and his family some of my memories of a truly great man. He shall be missed, but he shall never be forgotten."

Kindly provided by Richard Atkins QC (1985, Law) for Derek Davies' Thanksgiving service

AHMED ZEWAIL

At the ceremony in Stockholm in December 1999, when Ahmed Zewail was the sole winner of the Nobel Prize in Chemistry that year, Bengt Norden (Chalmers University of Technology), a member of the Nobel Committee introduced the recipient with the



following words: "Zewail's use of the fast laser technique can be likened to Galileo's use of his telescope, which he directed towards everything that lit up the vault of heaven. Zewail tried his femtosecond laser on literally everything that moved in the world of molecules. He turned his telescope towards the frontiers of science." To appreciate the magnitude of the advance that Zewail introduced to chemistry, one has to ponder the minuteness of the time intervals that he could routinely employ with his special lasers: a femtosecond is a millionth of a billionth of a second, or one second divided by ten to the power of 15. By brilliantly deploying such small time intervals to carry out ultrafast photography of atomic movements of both inorganic and organic molecules in the gas phase, Zewail brought about a revolution in chemistry and related sciences. He showed how to track the course of the atomic movements that take place in chemical reactions – he could explore the dynamics, in unprecedented detail, of individual atoms involved at the instant of rupture or formation of chemical bonds. To place this advance, which Zewail achieved in the 1980s and 1990s at the California Institute of Technology (Caltech), into perspective, we recall that in the late 1960s, researchers worldwide operated on time scales of micro or nanoseconds. There are as many nanoseconds in a second as there are seconds in a man's life. But a femtosecond is so much smaller: it is to a second as a second is to 32 million years.

I first got to know Zewail in Santa Barbara at the Molecular Crystals International Symposium in 1977. At that event, Zewail disclosed his strategy for tackling coherence in molecular and crystal systems. To address the questions related to spectral inhomogenities in solids he outlined how, using lasers, he could capitalise on the concept of coherence. Up until the advent of his work, chemists were convinced that it was practically impossible to monitor the atomic movements involved in the so-called transition states when reactants were converted into products. Zewail did not let this stop him. He set out to do so as a young assistant professor without tenure at Caltech, having first delved deeply into concepts of coherence previously clarified by the Hungarian-American physicist Eugene Wigner. From the late 1970s onwards, Zewail's work led inexorably and rectilinearly to his reward in Stockholm.

Being the uniquely gifted experimentalist and versatile theoretician that he was, in 1991 Zewail embarked on another major scientific venture: he designed a new type of electron microscope that, through dexterous use of ultrafast laser pulses and the photoelectric effect, created a stream of ultrafast electrons repeated on a femtosecond scale. This later enabled him to chart the movement of atoms in solids and on their surfaces, and in

biological material such as amyloid fibrils a thousand million times as fast as had been done by electron microscopists hitherto. His so-called 4D electron microscope – three dimensions of space and one of time – is now transforming the whole corpus of physical, biological, medical and engineering science. The Nobel Laureate Roger Kornberg, in commenting on Zewail's most recent book *The 4D Visualization of Matter* describes it as "a chronicle of an extraordinary journey of invention and discovery". Many believed that Zewail was on the course to win a second Nobel Prize.

Born in the town of Damamhur in the Nile Delta in 1946, as a teenager he roamed freely in that region of his beloved Egypt, and he became, within a few short decades, successor at Caltech to the greatest chemist of the 20th Century, Linus Pauling. Like Pauling, Zewail was destined to shape much of modern science. He took his initial degree in the University of Alexandria, and also gained a Masters degree there before joining the group of Robin Hochstrasser at the University of Pennsylvania. After his PhD in Philadelphia, he worked for two years as IBM Fellow in the group of Charles B Harris at the University of California, Berkeley. He was then appointed as a junior faculty member at Caltech, where he stayed for the rest of his extraordinary life.

Apart from the Nobel Prize, he was the recipient of numerous other honours, including the Albert Einstein World Award, the Robert Welch Award, the King Faisal Prize, the Franklin Prize, and the Wolf Prize. He was awarded honorary doctorates from 50 universities. Like Marie Curie, Mendeleev, and Faraday he is one of the few scientists to hold honorary doctorates from both the Universities of Oxford and Cambridge. He was a Foreign Member of the Royal Society and of most other national academies in the world. He was particularly proud to be a Fellow of the American Philosophical Society, founded by Benjamin Franklin in 1743. In 2009, President Obama appointed him to the Council of Advisors on Science and Technology and in the same year he became the first US Science Envoy to the Middle East. In 2013 the Secretary General of the United Nations, Ban Ki-moon, invited Zewail to join the UN Scientific Advisory Board.

Zewail was profoundly interested in raising the scientific and technological profiles of Egypt and other Middle Eastern countries, and he wrote numerous articles in major newspapers in the US, UK, and Egypt, advocating procedures that could be used to help young people and the 'have-nots' in the developing world. For the past several years, he took almost daily interest in the establishment of Zewail City of Science and Technology, now in the process of completion on the outskirts of

Cairo. Zewail was decorated with the Order of the Grand Collar of the Nile, Egypt's highest state honour and was appointed a member of the Legion d'Honneur by the President of France. For several years, along with the Belgian Nobel Laureate Christian de Duve, he played a leading role in the L'Oreal-UNESCO Awards for Women in Science. Author of some 600 papers and 14 books, one of which I co-authored with him, he has left a lasting legacy for generations of future natural philosophers. In the summer of 2009, I spent four whole weeks in Caltech and a week in Yosemite National Park with Zewail's extended family. It was during this period of intense interaction that I grew to learn more about Ahmed and his intellectual stature, and I can testify to two things that made him so unusual as a scientist: first, he combined in a singular manner patience, passion, pertinacity and perspicacity. Second, he described his work in beautifully elegant and memorable ways: every sentence and every illustration of every paper of his was the product of deep contemplation and lucubration.

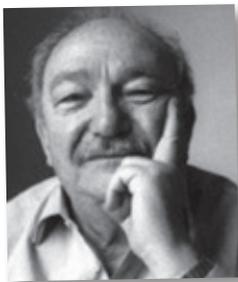
Zewail also had a profound interest in history in general, but the history of science in particular. My Eurocentric views of who discovered what were often corrected by Zewail, who reminded me that, for 700 years, the language of science was Arabic. He pointed out that, during his time in Baghdad in 1000 AD, Al Hazen (Latinised as

Alhacen) had invented the camera obscura. He also drew to my attention that Aristarchus of Samos, who had spent some time in Zewail's beloved Alexandria, had suggested that the earth circulates the sun some 18 centuries before Copernicus, and pointed out that Eratosthenes, the Librarian in Alexandria, proved that the earth was spherical and calculated its circumferences with amazing accuracy 1,700 years before Columbus sailed on his epic voyage.

In 1991, Zewail enthralled members of the Royal Institution of Great Britain with his thrilling account of his laser femtochemistry work. In the course of it he showed a spectacular image of Akhenaton (14th Century BC) and drew attention to "The first known image that depicts that light travels in a straight line". Zewail had many admirable qualities, including his prodigality of output; his general celerity of action; the technical virtuosity of his experimental methods; the profundity of thought of his theoretical exercises; his efficiency in mentoring students and scholars; his remarkably enterprising ventures in fundraising, especially for the establishment of Zewail City; and his concerns about the 'have-nots', especially the millions of children worldwide who receive no education. He discussed his activities in the latter topic, as well as the development of 4D electron microscopy in a most memorable talk at the 125th Anniversary Symposium for Angewandte Chemie in Berlin in 2013.

Zewail's unique legacy to natural science is that he made a multitude of wide-ranging, far-reaching, uplifting, and long-lasting contributions. He is survived by his Syrian-American wife Dema, who is a doctor, and his four children Maha, Amani, Nabeel, and Hani.

Kindly provided by Sir John Meurig Thomas, first published in Angewandte Chemie



ROBERT MABRO

Robert Mabro, who died aged 81, was an oil academic who became a trusted adviser to some of the most powerful figures in the energy industry.

Founder of the Oxford Institute for Energy Studies, he helped shape the debate about energy policy for half a century, and acted as a broker between Opec and rivals to cut production and stabilise oil prices after the Asian financial crisis.

"Clever, trusted, witty and light-hearted, Mabro was a brilliant diplomat who used the authority of his intellectual independence to bring conflicted parties together," said Paul Newman, a friend who chairs Icap Energy, an offshoot of the UK broker.

After oil prices slid below \$10 a barrel in 1997, Mabro was called on to draw together big producers, who were reluctant to cede market share and co-operate with nations they viewed as rivals.

After a year of back channel talks, a deal was hammered out between Opec kingpins Saudi Arabia and Venezuela and rival producers led by Mexico. This helped underpin a recovery in prices.

"It was Robert who brought us together during these secretive talks," said Abdulaziz bin Salman, who was part of the Saudi negotiating delegation at the time and is now deputy oil minister. "As our proxy he gave us the confidence. He was a realist, a deep thinker and focused minds on the art of the possible," the prince added.

But for Mabro the rapprochement was unremarkable. "At various levels he was effectively doing that sort of thing all the time," said Paul Horsnell, a former colleague and now head of commodities research at Standard Chartered. "If anybody wanted an honest broker, or wanted to broach an idea to other parts of the industry, Robert would be a natural port of call."

Information and opinions would move around the oil world via Mabro, Mr Horsnell said,

because of his integrity, discretion, lack of a personal agenda and modesty.

His ability to distil issues to their essence was noted by friends and colleagues, bringing together politics, economics and other subjects to analyse energy markets.

With his moustache and wide smile, he would peer over his glasses as he spoke about topics ranging from oil market dynamics and geopolitics to Viennese cakes and his love for the US television drama *The West Wing*. Mabro passed away on holiday in Crete with his wife Judy, daughters and grandchildren.

Born in Alexandria in 1934 to Lebanese parents, he earned an Egyptian degree in civil engineering, then studied philosophy in France before receiving a masters degree in economics in London.

He began his academic career at the School of Oriental and African Studies, then moved to Oxford university in 1969 to research the economics of the Middle East, after which his interest in oil developed.

In the 1970s he founded several energy outfits including the OIES, which focuses on the economics, politics and international relations of energy.

Mabro once compared Opec to a teabag “because it only works when it is in hot water”.

When John Kerry, then a US presidential candidate, said in a television interview in 2004 that he wanted US security “to be in the hands of Americans [...] not the Saudi royal family or others around the world,” Mabro responded: “That is a nice line but it is meaningless. You [will] have to continue to import [oil] for many years to come.”

“He always questioned the motivations behind a person’s comments,” said Bassam Fattouh, director of the OIES. “He was critical of everyone and this enabled him to be impartial.”

When talking about oil market commentators on television, Mabro once said to the Financial Times: “Everyone seems to be an expert. Who are these people? They never seem to ask me.” The comment was delivered with a chuckle.

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GEOFFREY CROOKS

Geoffrey Crooks, 59, of Suffolk, England, died on 21 March 2016, with his wife Sabrina and son Kiran

by his side. Geoff passed away in Manila, Philippines losing his battle with leukemia and complications from contracting an infection in Manila. He was born to the late Roland and Barbara Crooks, on 17 April 1956, in Bromley, Kent. Geoff attended Simon Langton Grammar School receiving numerous awards and went on to St Catherine’s College, Oxford where he received both his undergraduate degree in Biology and Forestry and an MA in Economics. He married Sabrina in 1998 and was delighted when his son, Kiran was born in 2002. Geoff is also survived by his beloved daughter Catherine.

He had a lifelong love of traveling and exploring countries and cultures. Geoff worked extensively in both public and private sectors in over 50 developed and developing countries in an extensive area of roles including privatisation and enterprise restructuring. He also had IT, knowledge management and strategic development skills gained as a director in several UK and international organisations. Geoff was committed to helping people beginning his career working for the Department for International Development in Sri Lanka and

Nepal and ending it while working for the Asian Development Bank (ADB) in Manila. He had a strong belief in development and had been working at ADB in a variety of roles including Senior Evaluation Specialist and Associate Secretary of the Compliance Review Panel.

Geoff was passionate about nature. He had bred butterflies as a child and could recognise moths and butterflies from caterpillars to full grown specimens. He was fascinated by mountains famously going on his honeymoon with Sabrina to Hawaii spending most of it exploring the mountains there. Geoff had a wide range of knowledge and was able to talk to anyone about almost anything. He would sometimes even surprise himself when able to recall some obscure fact about a football match or how to make dumplings in Kazakhstan.

Geoff had a wonderful sense of humour and was a brilliant story teller, relating with a twinkle in his eye how he had to eat grubs out in the bush in Africa or of singing with a friend celebrating his birthday while drinking champagne standing in the Bosphorus. He could be found joking with everyone from taxi drivers, market traders and security staff to heads of state. He made each person feel comfortable and at ease with him, and all considered him a friend. Geoff led a full life, loved his country and family, and was

charming and courteous to all people. In the words of Kipling's If, Geoff could "walk with Kings—nor lose the common touch."

Kindly provided by Sabrina Crooks

A book of tributes to Geoff from those who knew him at St Catherine's has been put together by Sandy Mackenzie (1975, Philosophy & Modern Languages) and can be viewed online at <http://bit.ly/year16tribute>



VIVIAN BURCHILL

Vivian Burchill was born on 13 September 1925 in Heswall, The Wirral, Cheshire, only child to Aline and Frederick (Monty and Burch). "Viv" was named after his uncle, whom he

never met, who had died in the First World War. From an early age Viv developed a lifetime love of the countryside and especially birds which stemmed from walks along the Dee Estuary with his Uncle Ernie, (mother's brother). It was going to be many years later on a visit to Ypres that Viv would piece together what his Uncle had gone through in the trenches in the Somme, consolidating

Uncle Ernie's particular connection with nature, which he had so caringly passed on to his nephew. Viv attended Wrekin College. He was a keen rugby player and his school reports (1941 and 1943) demonstrate his all round academic ability – with a special love of English Literature and Latin and also Physics, Chemistry and Mathematics. The war intervened and the Royal Engineers were offering a year's special training. Having attained good A level grades Viv was recommended by the Board to attend Manchester University for in depth training followed by a further year becoming an RE Officer in 1945. He had fond memories of shovelling coal to power the steam engines.

Viv was posted to Vienna and recalled at the age of 21 "clattering" across Austria in a train to run a skeleton operation taking over a detachment of 60 men (experienced field and rail engineers). As 2nd Lieutenant Viv had considerable responsibility and it is only recently he has talked to Chris, his son of his involvement between 1945 and 1946 of running the railways in Eastern Europe from Vienna and the decisions he had to take at a young age demonstrating great skill working with other parties including Germans, Danes, Russians and Americans in very difficult circumstances. Following his posting to Austria Viv was able to pursue his love of languages and literature reading English at St Catherine's College, Oxford. Viv's involvement with St Catherine's continued for many years as did

his love for the written and spoken word. Viv was an avid reader and latterly was rereading Dickens. During his lifetime Viv took up several linguistic challenges mastering French, Danish and Spanish. He also loved going to the theatre and listening to music. Cathie and Viv met in 1950 when they were both working in Stamford Street; Cathie for the Autocar and Viv for British Plastics following in his family's journalistic footsteps. 1953 was a special year, with the Coronation taking place and Viv and Cathie marrying in December of that year. They started married life in a rented flat in Reigate and shortly after the birth of Gillie moved to Sevenoaks and then to Tonbridge as a family of four, Chris having been born in 1957. By then Viv worked for GEC but was then offered a job at Gillette prompting a move to the Twickenham area. Cathie and Viv have lived at Strawberry Hill, Twickenham, Hampton and more recently Twickenham again – over a 56 year period. Carrie was born in 1960 at Strawberry Hill and apart from having several beloved dogs over the ensuing years Viv's family was complete. Dogs and more especially "rescue dogs" became an integral part of family life with Viv taking them for runs in the local parks, and generally forming a focus for lovely walks in the country and holidays in England. Family holidays were a very important part of life for Viv and Cathie and even when trips abroad were constrained by a £50 limit per adult, the family would set off in a succession of cars, several years running, that would regularly

break down but faithfully got the family across the Channel and down to a favourite place in the South of France in the Alps behind Nice. Visiting Teignmouth and Newton Abbot also formed important holidays visiting Monty and Burch and an opportunity for Gillie, Chris and Carrie to spend special time with Viv's parents. Visiting The Lake District added to the holiday adventures – the car loaded with Viv, Cathie and the children and pet dog with the "Puffin sailing boat" on the roof. By the 1970s sailing had become an important part of Viv and the family's life. Viv and Cathie joined Tamesis sailing club at Teddington. Viv spent many happy weekends and evenings at Tamesis, sailing first an Enterprise, and then Tinkerbell (National 18). Winning the Adelaide Cup was a high spot. Over the years Viv became more and more involved with the Club and became Rear Commodore (1986), Vice Commodore (1988-1989) and was Club Secretary in the 1990s. Even when Viv had stopped sailing he and Cathie were very involved with the Wednesday Bridge Evenings and raising money for charity. Viv's career spanned several decades working for some high profile companies. Following Gillette Viv worked for the Danish Farmers (DAP). Throughout his working life Viv made long lasting friendships and also regularly met up with friends from his Oxford and Heswall days. Viv was a member of the local Probus Club and served as President, forming further friendships. Viv retired at 60 but life for Viv and Cathie was as full as ever with days filled

with caring for grandchildren, spending time at their flat and then villa in Menorca, honing their Bridge skills with friends, enjoying Glyndebourne, seeing friends and family. Viv even sailed off Greece and Turkey with friends – a momentous experience for which he learnt navigation skills. More recently despite ill health Viv's love of life drove him on to continue making the most of every opportunity to get out and about. Life at Gifford Lodge was metaphorically sunny and even when he had to give up driving he would get out and about in his electric wheelchair. He and Cathie found new places to visit around the Twickenham area. Bridge, film nights, continuing to do the Telegraph crossword daily and taking photographs formed a pattern for his weeks/ days. Viv loved Gifford Lodge and it was only in the last five weeks of his life that he needed 24 hour care at the Princess Alice Hospice and a local Nursing Home where he died peacefully having read the newspaper that afternoon and while watching the tennis at Queen's on the TV.

Viv is survived by Cathie and their three children Gillie, Chris and Carrie, seven grandchildren and one great granddaughter.

Kindly provided by Gillian Williams, Vivian's daughter

VICTOR JOHN LEE

Victor Lee was born in Swansea in 1937 and graduated from Cardiff University with

a first-class honours degree in English. On the strength of this he was awarded a Jane Eliza Procter Visiting Fellowship at Princeton University and a Fulbright Scholarship. On his return to Britain he taught English at Skegness Grammar School then lectured at Culham College of Education and was one of the founding academics of that great post-war institution The Open University. He completed his Oxford doctorate in the late 1970s based on Bernstein's theory of restricted and elaborate codes. He was probably one of the most experienced examiners in the country having examined for all the major boards over a period of 40 years or so. He was chief examiner in English Literature for Oxford and Cambridge, London University and the Welsh Joint Education Committee. Finally he was series editor for Oxford University press, editing Oxford Student texts, a series which is still popular to this day. He was diagnosed with Parkinsons Disease in 1996 and died in 2013.

Kindly provided by Patricia Lee



HANS STRAUSS

Hans Strauss was born in Frankfurt in 1925. His father, a dentist, was far-sighted and, being Jewish, could see trouble coming. In 1933, with Hitler

already in Power and Hitler Youth parading near their house, he was already applying for permission to practices in England. Fortunately because of a shortage of dentists in London, this was granted in 1936, so the family reached London just as life in Germany was becoming increasingly difficult.

After a short period of settling down and learning English, Hans was accepted by Inversity College School in Hampstead. There he became interested in science, and chemistry in particular. He went on, in 1944, to study part-time at Chelsea Polytechnic, while also having a job in a laboratory because of wartime regulations. He then went on to Battersea Polytechnic where he gained an MSc in 1951.

Hans was then granted a Research Studentship at Oxford for a DPhil. This was in the Dyson Perrins Laboratory, then ruled by Sir Robert Robinson. His supervisor, Dr Elsner, suggested that he should apply to St Catherine's Society, as it then was, which would allow him to live independently in lodgings. This suited him well, and he was always enthusiastic about St Catherine's in spite of being non-resident.

While he was working at the Dyson Perrins Laboratory he, with Dr Elsner and others, produced reports on several research projects which were published in the Journal of the Chemical Society.

After he completed his doctorate in 1955 he decided he must earn a living in industry. His first post was with Shell at Carrington, Manchester. He then went to Courtauld's at Putteridge Bury, Luton, and from there to Spondon, Derby. There he was a laboratory manager working on celon (nylon 6) until the factory closed in 1980. After a short break he obtained a three year grant at Loughborough University Institute of Polymer Technology, with Professor Birley, and this was followed by other projects until he retired.

Kindly provided by Sheila Strauss



**THE HON MR JUSTICE
JOHN ALFRED
STEPHENS-OFNER**

"Thank you very much for your kind letter, it was very much appreciated by my family. John always had fond memories of Catz.

We moved to Germany from the UK in 1988 after John was appointed the position of Appeals Court Judge at the European Patent Office.

After 12 years we retired to Malta, where I still live and our three children are a great comfort to me now and they visit me often, especially in the summer months.

Again thank you for the kind words and also for allowing me to put an obituary in *The Year*."

Kindly written by Sonja Stephens-Ofner, John's wife, in reply to a letter of condolence from The Master

**AUSTIN PATRICK
DOWNING**

Pat died peacefully, in a caring environment, after a short illness, on 16 November.



He came up to St Catherine's in 1948, after National Service with the RAF, to read Modern History. He rowed in one of the crews each making six bumps in Eights Week 1949.

After a PGCE at Birmingham University he became a teacher in Dartford and Biggleswade, and continued his passion for rowing at Bedford Rowing Club.

His career at Mander College, Bedford began in 1959, first as a lecturer then Head of Department of Adult Education then Liberal Education then Social Service Studies.

His departments were diverse; responsible for the teaching of English, Drama, Sociology, General Studies, Music, Physical Education and more; on academic, professional and vocational courses for a wide range of

students. Managing joint ventures with other departments and colleges and coordinating a small army of visiting lecturers. He was also Liaison Officer for the Open University local study centre and a counsellor in the Humanities. All at a time when these things were new and needed developing.

He was fond of saying “you get out of education in proportion to what you put in”, and he didn’t just mean in terms of effort but spirit also.

“If you are just doing it for a qualification, that’s fine; but if you embrace it for itself it will hug you back, equipping you not just with job skills but with life skills also; If you immerse yourself in it, it will soak into you, hardening your weak points and smoothing your rough spots; If you let it, it can inspire you and reward you in ways only you can value.”

And he immersed himself in it, supported and celebrated it, all of it; the dinners, the social side, the clubs, the sport, the curricular and the extra-curricular.

And to the end; he was expecting to return to functions at Oxford and Bedford Rowing Club; and an Eric Hobsbawm book was by him in hospital.

Until her death in 1997, he enjoyed a long and successful marriage to his second wife, Diana;

based on their joint interests of teaching, travel, reading and family.

He leaves partner Margaret, children Debbie, Guy and James, step-children Colin and Lisa Jane, and nine grandchildren.

Kindly provided by Guy Downing

JOHN MASON BRAITHWAITE

John was my very good friend throughout our time at St Catherine’s and ever since. He read English and, after graduating, he studied for a DipEd at Oxford. He then pursued a career in education, teaching in schools in Birmingham and Cheshire, where he became a deputy head and local authority advisor.

John was a hard-working, good-humoured, successful yet unassuming man of the utmost integrity and greatly liked and respected by all who knew him. In April 2015 he lost his wife Ruth, who died of cancer. He bore this devastating blow with great fortitude, but was afflicted in the last weeks of his life by severe cellulitis and lymph node cancer.

John passed away on 5 October 2016 aged 81. He is survived by his son Paul, daughter Alison and three grandchildren. He would have been 82 in November.

Kindly provided by Philip Bramall (1955, Modern Languages)

NOTIFICATIONS

Mark Gerard Anderson (1974, Law)

The Revd Leslie William Barnard (1948, Theology)

The Revd Canon John Clifford Penn Cockerton (1952, Theology)

Francis Charles Dipstale (1938, English)

Donald Keith Docherty (1978, Law)

The Right Revd Ivor Colin Docker (1946, Theology)

Brian A P FitzGerald (1960, Mathematics)

Richard Grabner (2014, Mathematical Finance)

Dr James R Greaves (1962, Chemistry)

Brian Keith Hanson (1958, English)

Alexander George Harding (1938, Modern History)

Brian D Harvey (1986 Medieval & Modern Languages)

The Revd Bernard Gordon Hastings (1950, Theology)

Peter Arthur Holgate (1952, Law)

Luke Holland (2013, Management Studies)

John Byron Holt (1957, Modern Languages)

John Filmer Millen (1963, English)

William (Willie) Richard Price (1942, Modern History)

Theodore Pritchett (1951, Law)

Dr Myron Siner (1953, Physiological Sciences)

Gene Stevenson (2012, Evidence-Based Health Care)

Horace Stone (1944, Modern History)

Anthony Leslie Vann (1956, Mathematics)

Anthony James Weeks-Pearson (1952, English)

Admissions 2016

UNDERGRADUATES

Biological Sciences

Alec Bannister - Dulwich College, London
James Craig - Reading School, Berkshire
Jun Lee - Gyeonggi Academy of Foreign Languages, South Korea
Ellen O'Brien - Leicester Grammar School
Jessica Ross - Forest School, London
Jack Shepherd-Cross - Eton College, Windsor
Hollie Stringer - Esher College, Surrey

Biomedical Sciences

Matteo Broketa - Trinity High School, USA
Danielle Groves - Abbeyfield School, Northamptonshire
Alexandra Highcock - Downside School, Somerset

Chemistry

Kaiman Cheung - Loughborough Grammar School, Leicestershire
Tom Gotsman - King's College School, Wimbledon
Katie Hurman - Caterham School, Surrey
Jeremy Ingham - William Howard School, Cumbria
Yuxuan Lu - Headington School, Oxford
Timothy Nash - Bournemouth School, Dorset
Matthew Shipp - Hills Road Sixth Form College, Cambridge
Robert Smyth - Foyle College, Londonderry
Katherine Steele - Anglo-European School, Essex

Computer Science

Marilena Bescuca - Colegiul National Ienachita Vacarescu, Romania
Mihail Jianu - Tudor Vianu National College of Computer Science, Romania
Edward Salkield - Kimbolton School, Huntingdon
Yiyun Shao - King's College London Mathematics School
Hristo Venev - Sofia Mathematics High School, Bulgaria
Zihan Ye - Cambridge International Centre of Shanghai Normal University, China

Computer Science & Philosophy

Matthew Rimmer - Barton Peveril College, Hampshire
Wojciech Swzarc - XIII Liceum Ogólnokształcące, Poland

Economics & Management

Ellie Peel - St George's College, Weybridge
Nicholson Wells - King's College School, Wimbledon
Nina Wieretilo - Jam Saheba Digvijay Sinhji, Poland
Jek Jin Woo - Hwa Chong Junior College, Singapore

Engineering Science

Kumarsambhav Aggarwal - Judd School, Tonbridge
Simon Beal - Bedford School
Charles Blake - St Clement Danes School, Hertfordshire
Ruth Faherty - Kilgraston School, Perthshire
Kar Yan Leong - Taylor's College, Malaysia
Jared Maritz - Kristin School, New Zealand
Arlen McCausland - Eton College, Windsor
Teodor Totev - Sofia High School of Mathematics, Bulgaria

English Language & Literature

Rachel Craig-McFeely - St Mary's School, Dorset
Anna Elliott - Abbey School, Berkshire
Georgia Heneage - Bryanston School, Dorset
Charlotte Hyde - Beaminstor School, Dorset
Frazer Martin - St Edwards School, Oxford
Julia Pilkington - Godolphin & Latymer School, London
Georgina Quach - Royal Latin School, Buckingham
Laura Smith - Waldegrave School, Middlesex
Beatrice Udale-Smith - King Edward's School, Bath
Florence Ward - Kingsdale Foundation School, London
Harry Wragg - Magdalen College School, Oxford

Experimental Psychology

Olivia Ong - Dunman High School, Singapore
Emma Osborne - Dorchester Thomas Hardy School, Dorset
Katherine Seaborne - Red Maids' School, Bristol
Thomas Wells - Marling School, Stroud

Fine Art

Julia Michiewicz - Monnet International School, Poland
Zhiwei Xu - Beijing National Day School, China

Geography

Catherine Cooper - Sir Thomas Rich's School, Gloucester
Katherine Dennison - Wellington College, Berkshire
Daniel Hall - Thomas Telford School, Shropshire
Tiger Hills - United World College of South East Asia, Singapore
Samuel Mowbray - Neath & Port Talbot College
Eva O'Sullivan - Cardinal Vaughan Memorial School, London
Clarisse Pierre - Dulwich College Shanghai, China
Charlotte Potts - Hills Road Sixth Form College, Cambridge
Emily White - Coventry Bablake School, West Midlands

History

Benjamin Clingman - City of London School
Isabel Goodwin - King Edward VI Grammar School, Chelmsford

Jack Harrison - Inter-Community School Zurich, Switzerland
Rachel Ibbetson - Kingston Grammar School, Surrey
Lisa Kladitis - Trinity School, Croydon
Alexander Maguire - Brighton College
Molly Williams - Southend High School for Girls, Essex

History & Economics

Narishma Kotecha - Wyggeston & Queen Elizabeth I College, Leicester
Tobias Nicholson - St Paul's School, London

History & Politics

Thomas Tutton - Brighton, Hove & Sussex Sixth Form College

History of Art

Madeleine McCarthy - Aylesbury High School, Buckinghamshire
Mia Parnall - Truro & Penwith College, Cornwall
Dominika Tylcz - II Liceum Ogólnokształcące w Katowicach, Poland

Human Sciences

William Bennett - Mount Kelly School, Devon
Isla Collee - SCEGGS Darlinghurst, Australia
Samuel Kaner - Royal Grammar School, High Wycombe
Joseph Rae - John Kyrle High School, Ross on Wye

Law

Wei Jin Chan - Raffles Institute, Singapore
Yui Hin Ho - Diocesan Boys' School, Hong Kong
Harry Holmes - Greenhead College, Huddersfield
Dylan Jones - Ysgol Gyfun Gymraeg Plasmawr, Cardiff
Michelle Luo - Beauchamp College, Leicestershire
Raphaelle Petit - Lycee Francais de Singapour, Singapore
Isabella Risino - Withington Girls School, Manchester
Katie Rivers - Ysgol Gyfun Rhydywaun, Rhondda Cynon Taf
Ksenia Simongauz - ISF International School Frankfurt Rhein-Main, Germany
Joshua Tray - Yavneh College, Hertfordshire

Materials Science

Calum Cunningham - Luton Sixth Form College, Bedfordshire
Runsen Ma - Anglo-Chinese Junior College, Singapore
Luke Malone - Exeter School, Devon
Yuyang Shen - Cambridge International Centre of Shanghai Normal University, China

Mathematics

Tyler DeBarr - Spalding Grammar School, Lincolnshire
Neira Kurtovic - Sarajevo College, Bosnia and Herzegovina
Jake Lee - Mander Portman Woodward, Birmingham
Miroslav Marinov - High School of Mathematics Plovdiv, Bulgaria

Zak Watson - Monks Walk School, Hertfordshire
Julia Wons - Bruton School for Girls, Somerset

Mathematics & Computer Science

Hassan Haider - Seven Kings High School, Ilford
Denitsa Markova - Sofia High School of Mathematics, Bulgaria
Ethan Martin - Abbeywood Community School, Bristol

Medical Sciences

Cameron Beattie - Alleyne's Academy, Staffordshire
Orlaith Breen - Thornhill College, Derry
Thomas Foord - King Ecgbert School, Sheffield
Oriane Grant - Wycombe Abbey School, High Wycombe
Joseph McManners - Rochester Independent College, Kent

Modern Languages

Caitlin Gray - Hills Road Sixth Form College, Cambridge
Felicity Gush - Simon Langton Girls School, Kent
Phoebe Jackson - Brighton College
Nina Ludakens - Hills Road Sixth Form College, Cambridge
Rumaan Malik - Colchester Royal Grammar School, Essex
Delphi Mayther - Home School, UK
Anna Redgrave - St Nicholas Catholic High School, Northwich
Rosie Rigby - Rochdale Sixth Form College, Lancashire

Modern Languages & Linguistics

Alec McQuarrie - St Albans School, Hertfordshire

Molecular & Cellular Biochemistry

Peter Cullimore - Ruislip High School, Middlesex
Priyanka Harley - St Paul's Girls' School, London
Kieran Pedersen - Watford Grammar School for Boys, Hertfordshire
James Stacey - Hills Road Sixth Form College, Cambridge

Music

Daniel Cummings - St Paul's School, London
Alexander East - Langley Park School for Boys, Kent
Luke James - Trinity School, Croydon

Philosophy, Politics & Economics

Simon Church - Reading Blue Coat School, Berkshire
Ryan Davison - Portadown College, County Armagh
Konstantin Friege - International School of Stuttgart, Germany
Kieran Marray - Oundle School, Northamptonshire
Thomas Rizvi - Royal Grammar School, High Wycombe
Hedda Roberts - Bacup & Rawtenstall Grammar School, Lancashire
Joshua Steinert - Haberdashers' Aske's Boys' School, Elstree
Thomas Wernham - Parmiter's School, Hertfordshire
Millicent Wild - Chesham Grammar School, Buckinghamshire

Physics

Oliver Berry - King's School, Chester
Lukas Burakauskas - Vilnius Lyceum, Lithuania
Rogan Clark - Queen Elizabeth Sixth Form College, County Durham
Catherine Curtin - Westcliff High School for Girls, Essex
Esther Hung - St Leonard's Catholic School, Durham
Benjamin Shuker - Haberdashers' Aske's Boys' School, Elstree
Mark Todd - Queen Mary's College, Basingstoke
Calum White - Steyning Grammar School, Kent

GRADUATES

Tasnim Abdul Hadi (BA, University of Technology MARA, Malaysia), MBA
Joshua Abey (BA University of Warwick), MSc (C) Comparative Social Policy
Bethany Abraham (BA University of Kent), MSt British & European History, from 1500 to the present
Issam Abu-Aisheh (BSc London School of Economics and Political Science), MBA
Jesus Antonio Acapulco (MChem Sung Kyun Kwan University, South Korea), DPhil Materials
Francois-Xavier Ada Affana (BSc Girne American University, Cyprus; MLitt University of St Andrews), MSc (C) African Studies
Ilyone Agboraw (BA Institut d'Etudes Politiques de Paris, France), MSc (C) African Studies
Jennifer Allan (BA Somerville College, Oxford), MSt British & European History, from 1500 to the present
Lucinda Allen (BA University of Southampton), MSc (C) Migration Studies
Rita Alonaizan (BSc University College London; MSc St Catherine's), DPhil Physiology, Anatomy & Genetics *
Aalene Aneeq (BSc Lahore University of Management Sciences, Pakistan), MSt Modern South Asian Studies
Abishek Arora (BSc Amity University, India), MSc (C) Neuroscience
Wai Yin Au (BSc University of Durham), MSc (R) Oncology
Thomas Barnes (MB ChB University of Liverpool), DPhil Surgical Sciences
Nesrine Ben Brahim (MD University of Tunis, Tunisia El Manar; Lic South Mediterranean University, Tunisia), Master of Public Policy
Naomi Benjamin (BSc Birmingham City University), PGCE Geography
Ella Bentin (MEng Imperial College London; Christ Church, Oxford), DPhil Diamond Science & Technology
Isabelle Berninger (BA Universität Kassel, Germany), MSc (C) Visual, Material & Museum Anthropology
Jill Betts (MSci Sidney Sussex College, Cambridge; DPhil Wolfson College, Oxford), 1st BM (Graduate Entry)
Rahul Bhatewara (BEng Indian Institute of Technology, India), MBA

Andrew Binnington (BSc Bath Spa University College; PGCE St Hugh's College, Oxford), MSc (C) Learning & Teaching (part-time)
Francesco Bosso (MA University of Edinburgh; MPP Hertie School of Governance, Germany), MSc (C) Refugee & Forced Migration Studies
Nicholas Botha (BA, BA, MA University of Cape Town, South Africa), MSc (C) Education (Comparative & International Education)
Samuel Boudreau-Larochelle (MD Université Laval, Canada), MSc (C) Evidence-Based Health Care (part-time)
Imran Butt (BA University of Westminster; PGCE Middlesex University), MSc (C) Education (Higher Education)
Joseph Byrne (BA University of Michigan, USA), MBA
Anne Callow (MPhys University of Manchester; MSc Imperial College London), DPhil Materials
Naomi Cannell (BA Keble College, Oxford; MPhil University of Cambridge), DPhil Systems Biology
Isaac Capone (BSc, MSc Università degli Studi della Basilicata, Italy), DPhil Materials
Joanna Caytas (MA, JD Columbia University, USA; PGCert University of Oxford), MSc (C) Nanotechnology for Medicine & Health Care (part-time)
Quei-An Chen (BSc Ecole Polytechnique, France), MSc (C) Computer Science
Yi-Fei Chen (BA National Taiwan University of Science and Technology, Taiwan), MBA
Ho Yan Cheng (BSc Chinese University of Hong Kong, Hong Kong), MSc (C) Major Programme Management (part-time)
Mahbub Chowdhury (MB BS University of London), PGCE Mathematics
Kristine Clasen (BM Ch, DM Christian Albrechts Universität zu Kiel, Germany), MBA
Elizabeth Claydon (MB ChB University of Birmingham), MSc (C) Evidence-Based Health Care (part-time)
Hazal Colak (BSc Koc Universitesi, Turkey), MSc (C) Comparative Social Policy
Janet Curry (BA Williams College, USA; MA Seattle University, USA), MSt Mindfulness-Based Cognitive Therapy (part-time)
Alexandra Curson (BA Manchester Metropolitan University), MSc (C) Applied Landscape Archaeology (part-time)
Harish Dadoo Gonzalez (Dip Stanford University, USA; BEng Purdue University, USA), MBA
Yichen Dai (BSc Chinese University of Hong Kong, Hong Kong), DPhil Zoology
Akshay Dalal (BEng Netaji Subhas Institute of Technology, India), MBA
Alexander Daniel (MPhys University of Nottingham), DPhil Biomedical Imaging
Anastasia De Gentile-Williams (BSc University College London), MSc (C) Social Anthropology
Zoa De Wijn (BSc University of Amsterdam, Netherlands), MSc (C) Mathematical Modelling & Scientific Computing

Alex Deamer (BSc London School of Economics and Political Science), MSt Literature & Arts (part-time)

Charles Degrave (BSc University of Melbourne, Australia), MSc (C) Financial Economics

Eleanor Duck (MSc Queens' College, Cambridge), 1st BM (Graduate Entry)

Lynn Dudenhoefer (BA Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany; MA Uppsala Universitet, Sweden), MSc (C) Criminology & Criminal Justice

George Evans (BA University of Durham), MSt British & European History, from 1500 to the present

Alexandros Evripides (BSc University College London; MPhil Girton College, Cambridge; MSc London Business School), MBA

Daniel Fahy (BEng National University of Ireland Galway, Ireland), DPhil Gas Turbine Aerodynamics

Kate Fairlie (BEng University of New South Wales, Australia), MSc (C) Sustainable Urban Development (part-time)

Aisha Fakhroo (BA University College London), Master of Public Policy

Louis Falissard (MEng Ecole Centrale de Lille, France), MSc (R) Surgical Sciences

Paulina Fishman (BCom LLB Monash University, Australia), MSt Legal Research

Kenneth Foo (BEng National University of Singapore, Singapore), MBA

Jan Friedemann (BA London School of Economics and Political Science), MSc (C) Financial Economics

Ayako Fujihara (BA St Catherine's), MPhil Economics *

Thomas Fyfe (MSc Queen's University Belfast), MSc (C) Theory & Modelling in Chemical Sciences

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