

Selwyn

The magazine
for Alumni and Friends
of Selwyn College,
Cambridge



22

Issue 22 Autumn 2015

Security, surveillance, Snowden & freedom	10
A revolution in lighting	14
Become a Friend of Selwyn	17
Selwynites' SwiftKey success	18
40 Years of Women celebrations	22



Transforming communities

Sustainable development
in Mozambique **page 8**



Development Director
Mike Nicholson
(development-director@sel.cam.ac.uk)
Magazine Editor
Shona Winnard (alumni-office@sel.cam.ac.uk)
Development Officer
Andrew Flather (arf37@cam.ac.uk)
Telephone: 01223 767844
www.selwynalumni.com

Cover illustration: Smith (www.smithltd.co.uk)
Design: Smith (www.smithltd.co.uk)

Editorial
Roger Mosey, *Master*



Since I underwent my Oxford to Cambridge conversion course, and now that I've been here for almost two years, I've come to know how special the month of June is in this city. 2015 was particularly memorable in Selwyn because it included the triumphant revival of the May Ball – complete with a Ferris Wheel in Old Court and 1600 guests savouring the music, entertainment and food. In the following week, there was the graduands' dinner – always one of the most relaxed and fun evenings – before the procession a couple of days later to the Senate House for graduation itself. I find the ceremony deeply moving: the moment, in front of family and friends, when achievements here are confirmed. And just after we've said farewell to some of our undergraduates, we have the pleasure of welcoming back alumni to Commem and the College Garden Party.

The golden days of summer are a reminder of the beauty of Cambridge, and the way that we combine hard work with the ability to celebrate. But they're also a time when we take stock: reviewing how we've done in the past twelve months, and getting ready for the academic year ahead. We're confident about the College's strengths, which are manifest, but also aware that times are going to be tough for Higher Education; and we need to guarantee that we are world class. A new senior tutor, Mike Sewell, will lead our academic and pastoral efforts in succession to James Keeler. In the development area, Mike Nicholson and his team are planning the major endowment campaign that will help secure the College's long-term financial future. Right across the College, discussions are taking place about next year's commemoration of 40 years of co-education at Selwyn – which will be a wonderful opportunity to applaud the pioneers and to debate the challenges still facing women in the 21st century.

It all adds up, we believe, to a winning combination: a College with a clear purpose and a powerful sense of community. Nothing can beat coming back to visit and reacquainting yourself with Selwyn, but in the meantime I hope you enjoy the flavour of College life you'll find in the rest of this magazine.

Alumni news

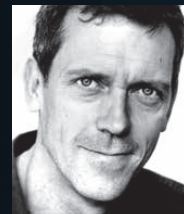
New Generation thinking

In May BBC Radio 3 and the Arts and Humanities Research Council (AHRC) unveiled the 10 academics – and their research – who will be *New Generation Thinkers 2015*. The scheme is a nationwide search for the brightest minds who have the potential to share their cutting edge academic ideas through radio and television. One of the 10 is Selwyn postgraduate, **Clare Walker-Gore**. Clare researches disability in Victorian literature, especially novels by Charles Dickens, Wilkie Collins, Anthony Trollope and George Eliot, and the biographies of the period, exploring the ways in which the lives of disabled people were portrayed. Clare studied



Clare Walker-Gore

English at Selwyn as an undergraduate and is now working towards her PhD.



Selwyn on screen

Two of Selwyn's alumni are due to co-star on TV screens around the world next year. John le Carré's novel *'The Night Manager'* is being made into a mini-series, to be released in 2016, and will feature Selwyn's **Hugh Laurie** (SE 1978) and **Tom Hollander** (SE 1985) in leading roles alongside Olivia Colman (Homerton) and Tom Hiddleston (Pembroke).

David Rose



Selwyn's alumni are far flung



Steve Otto (SE 1961) read History as an Affiliated Student in the early 1960s and has lived in his hometown of Toronto since. There, after heading the Province of Ontario's heritage conservation programs for several years, he founded the Friends of Fort York in 1994. It's a dedicated group of volunteers who support and protect the city's 43-acre birthplace of 1793. Toronto has been experiencing an extra-ordinary wave of redevelopment throughout its downtown the last two decades. Nowhere has this had more impact than around the fort, where thousands of condos have transformed the neighbourhood. A new \$25 million (Cdn.) Visitor Centre opened in September is designed to re-position the site. This autumn the Durham Magna Carta will be displayed there, one of only four venues it will visit during its tour of Canada.

www.fortyork.ca

Students visit Bahrain

During the Easter vacation a number of women students travelled to Bahrain. They spent a week at the Royal University for Women (RUW) and took part in two debates with RUW students, which were televised on Bahraini TV, about the role of women in society and about wearing veils.

They attended classes at RUW where they learned about Bahraini law and arbitration, and Muslim culture. During the week they were also entertained by a member of the royal family at her palace and visited a number of places relevant to their course including a camel farm, the National Museum and the historic fort. The students who are reading Land Economy have particular interests in food security, land use, energy and water security.

Share your news!

If you have been involved in projects or events that you would like to share with fellow alumni – please tell us. We would love to hear from you – as would lots of Selwyn alumni around the world!



Honours & awards

Congratulations to **Simon Hughes** (SE 1970) who received a Knighthood for public and political service and **Alan Finch** (SE 1985) and **Christopher Gilligan** (SE 1978) who each received a CBE. **David Pickthall** (SE 1978) was awarded an MBE and **Francis Rangarajan** (SE 1987) received a CMG.

HNR senior clinician scientist **Dr Sumantra Ray** (SE 2008) has been honoured by the British Dietetic Association (BDA) at their annual awards ceremony in Birmingham, where he was named BDA Honorary Lifetime Associate 2014. It is in recognition of Dr Ray's contributions to nutrition and dietetics at national and international levels through leadership of the UK Need for Nutrition Education/Innovation Programme (NNEdPro), which seeks to translate evidence based nutrition knowledge to medical/healthcare practitioners.

Simon Hughes



TRIBUTE



Owen Chadwick

We heard on July 17th about the death of **Owen Chadwick**: our former Master, and a giant of Cambridge and the wider world. He was one of the most distinguished theologians and historians of the 20th century; a member of the Order of Merit; a great international rugby player; and the Master who transformed Selwyn into the College we know today. But more than that he was a man of enormous kindness, with grace and humour and a love of life. We have been touched by the reminiscences of countless alumni who remember Owen with such fondness and gratitude.

For me as the new Master in 2013, it was a particular honour that Owen was present at my Installation; and I used to love visiting him, often with David Harrison and my dog YoYo. Her presence was welcomed because she brought back memories of the canine contributions to Selwyn during the Chadwick era.

Owen and his family members came to a lunch we gave in his honour in the Lodge for his 98th birthday, and on his 99th in May we gave a tea party – at which he enchanted us all over again. He never lost the charisma that set him apart throughout his long and glorious life, and we shall miss him as a great Selwynite and as an inspirational figure who meant so much to so many.

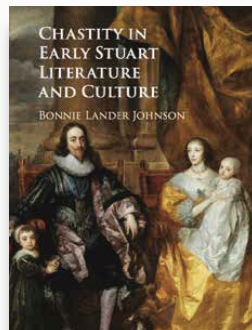
Roger Mosey

Fellows' news

An active fellowship

Selwyn has some 55 Fellows and when they're not involved with teaching, marking or giving supervisions to their students, many are involved with the running of the College or the work of their departments and faculties within the University.

Despite this busy agenda, they still find time to undertake scholarly and detailed research into an astonishing variety of subjects, the results of which are often featured in the media and published internationally. Add to this their various commitments to give lectures and support to other organisations and learned institutions and it all makes for a very busy and prestigious Fellowship, every member of which is committed to maintaining the very highest standards of education. We asked some of our Fellows to tell us more about their year ahead...



Published this autumn is a new work by Lecturer and Director of Studies in English **Dr Bonnie Lander Johnson**. 'Chastity in Early Stuart Literature and Culture' will be published by Cambridge University Press.

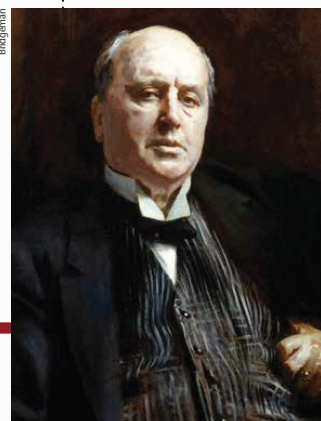
Still eager to learn, College Lecturer in Pharmacology, **Dr Gavin Jarvis**, graduated last March with Distinction from St Mary's University, Twickenham as a Master of Arts in Bioethics and Medical Law. He has subsequently presented his dissertation research on "Natural Human Embryo Mortality" in Selwyn and Notre Dame University, Indiana. It is currently being written up for publication.



Early in 2016, Oxford University Press will be publishing **Dr Philip Connell's** new book 'Secular Chains: Poetry and the Politics of Religion from Milton to Pope'. Dr Connell is Senior Lecturer in the Faculty of English, and a Fellow and Director of Studies in English at Selwyn.



Bridgeman



2016 is the centenary of the death of the novelist Henry James (below). **Dr Jean Chothia** (Reader Emerita in Drama and Theatre) has edited a new edition of James's last completed novel, *The Outcry* (1911) which will be published by CUP next year.

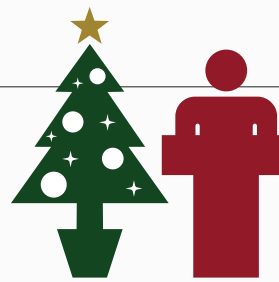
In response to demand from prospective students as well as industry, **Dr Anita Faul** and other colleagues are establishing a new stream within the MPhil in Scientific Computing that will focus on Machine Learning. Dr Faul's new book 'A Concise Introduction to Numerical Analysis' will also be published on 15 March 2016 by Taylor and Francis (CRC Press).



OPEN DAY

As part of the College's and University's programme to broaden recruitment and extend outreach **Dr Mike Sewell** will be busy this September leading a Cambridge team at an event that has recruited over 150 teachers from schools.

Bridgeman



Sir Colin Humphreys (whose article on LED lighting can be found on page 14) will be giving the Inaugural Annual Christmas Lecture at the Plymouth Institution in December. (This is a revival of the prestigious lecture programme that originally counted individuals like Faraday and Brunel as guest speakers.) Colin will be speaking on "Gallium nitride materials and devices". He will also be talking to Selwyn alumni and friends at the Armourers and Brasiers Hall, London in November - see p17.

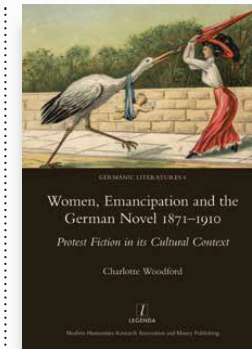
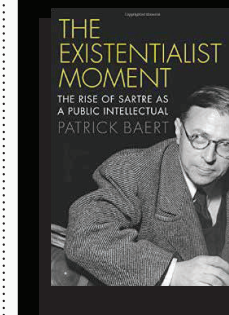


This autumn, a new book by **Filipe Carreira da Silva** (Affiliated Lecturer in Sociology) will be published. Entitled "Sociology in Portugal: a Short History", the publishers are Basingstoke: Palgrave Macmillan.

Dr Chander Velu (University Lecturer in Economics of Industrial Systems) and his colleague **Arun Jacob** are studying the relationship between owner-managers, business model innovation, and competition. Their paper "Business model innovation and owner-managers: the moderating role of competition" will be published later this year in the journal, *R&D Management*.

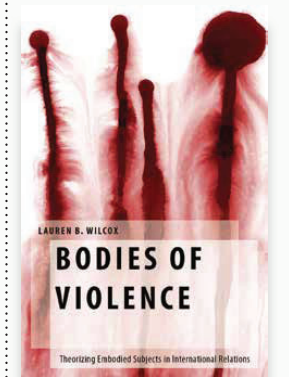
Getty

Just published is **Professor Patrick Baert's** book "The Existentialist Moment; The Rise of Sartre as a Public Intellectual" (Cambridge: Polity, 2015). The book explains Jean-Paul Sartre's rise to prominence and how, in a very short time in the 1940s, he emerged from obscurity to become an intellectual celebrity. Patrick is Professor of Social Theory at the University of Cambridge and Fellow and Director of Studies at Selwyn College.



Published too late to feature in our last issue of *Selwyn* was **Dr Charlotte Woodford's** book (left) "Women, Emancipation and the German Novel 1871-1910: Protest Fiction in its Cultural Context". The book (left) explores how, in the late nineteenth century, women in Germany and Austria engaged with some of the most pressing social questions of the modern age. Charlotte is Fellow in German and Director of Studies in Modern Languages.

Dr Lauren Wilcox, (University Lecturer in Gender Studies and the Deputy Director of the Centre for Gender Studies at the University of Cambridge) has also just published her new book "Bodies of Violence: Theorizing Embodied Subjects in International Relations" (OUP 2015) which develops her work exploring the intersections of international relations, political theory, and feminist theory.

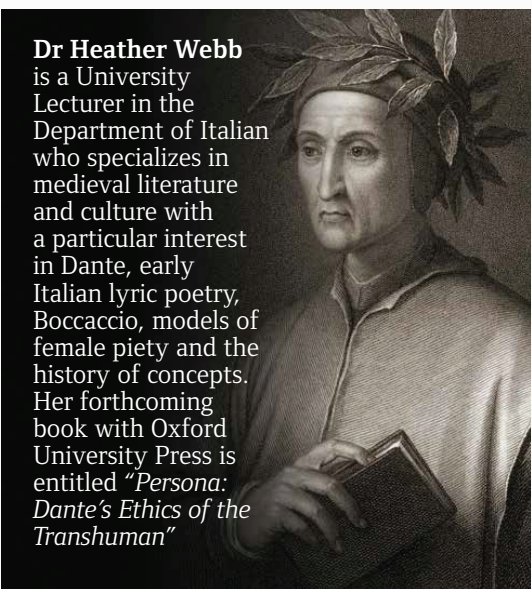
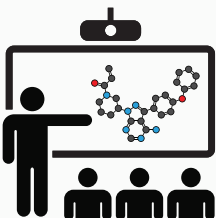


Robin Hesketh has been a member of the Department of Biochemistry and a Fellow of Selwyn for over 30 years. His research is concerned with several areas of cancer and he has recently embarked on writing a series of popular science books for non-scientific readers. The next, "The Secret of Life" - an anthology about cells, molecules and cancer - will be published in spring 2016.

Director of Clinical Studies at Selwyn – **Dr John Benson** – is also Consultant Surgeon at Addenbrooke’s Hospital, Cambridge and a recognised world authority on breast cancer. In December 2015 he will be moderating one of the main sessions and acting as panellist for the Career Development Forum at the San Antonio Breast Cancer Symposium. This is the world’s premier breast cancer meeting with more than 8,000 attendees from 100 countries. Dr Benson is one of only two panel members from outside the USA.

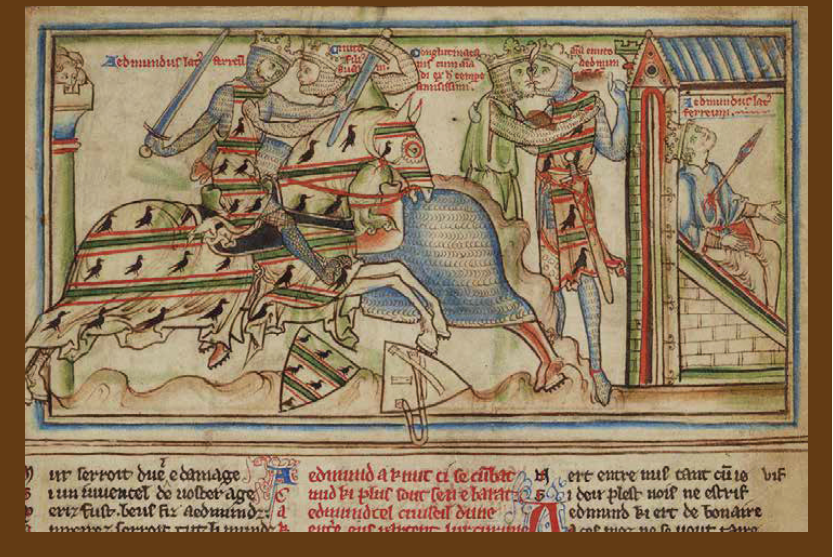


Following his appearance earlier this year on the BBC documentary “*The truth about fat*”, **Dr Fabian Grabenhorst** of the Department of Physiology, Development and Neuroscience will, later this year, be publishing the results of further experiments that investigate the brain mechanisms underlying decision-making under risk and decisions in the context of social learning.



Dr Heather Webb is a University Lecturer in the Department of Italian who specializes in medieval literature and culture with a particular interest in Dante, early Italian lyric poetry, Boccaccio, models of female piety and the history of concepts. Her forthcoming book with Oxford University Press is entitled “*Persona: Dante’s Ethics of the Transhuman*”

Dr Chris Briggs, Lecturer in Medieval British Social and Economic History, is the co-organiser of September’s conference *Thirteenth Century England* that will be hosted at Selwyn College. The papers will be deliberately diverse but there will certainly be something for those whose appetite for Magna Carta is not yet satiated.



Cambridge University Library

Dr Mike Sewell (Senior Tutor), **Dr James Keeler** (Deputy Head of the Department of Chemistry and the Walters Fellow in Chemistry) and **Dr Amer Rana** (The British Heart

Foundation University Lecturer in Regenerative Medicine) all feature prominently in the University’s new films on admissions interviews – as does Selwyn student **Natalie Sinha** (SE 2013).



The above information gives you some idea of the rich mix of interests and expertise that make up the Fellowship at Selwyn. But it is far from exhaustive and a full list of current Fellows of Selwyn, together with their contact details, may be found in the ‘About Selwyn’ section of the college website: www.sel.cam.ac.uk



SELWYN’S ENGINEERS

Supporting the next generation of innovative engineers

Two Selwyn alumni who matriculated in 1987, **David** and **Annabelle Ball**, are behind an imaginative new initiative – *The 1987 Fund* – which provides generous and significant funding for Engineering students.

The aim is to encourage enterprise and achievement in engineering and to encourage students to undertake extra-curricular engineering projects.

The project proposals for this year, its first, have been of an excellent standard and the Engineering Fellows selected three winners:

- **Anahita Prahan** (SE 2011) to follow up her interest in manufacturing engineering by spending time with a newly founded company in New York which is a fashion incubator-cum-fabspace whose aim is to bring manufacturing back to cities in the countries where the products will be bought;
- **Logan Vasudeva** (SE 2012) to design and construct a self-balancing electric motor

driven human transportation device which he says may look like a Segway or skateboard;

- **Nirali Patel** (SE 2002) to participate in the *TIMES Case Study International Semi-Final* at Dresden University of Technology in Germany.

The semi-finals consisted of solving two case studies and then presenting the recommendations to a panel of judges consisting of university academics as well as industry experts.

The 1987 Fund also provides support for a new College prize for overall excellence across the four years of the Engineering Tripos. This year, its first, has been awarded to **Liam Carter** (SE 2011) who fulfils the criteria as perfectly as it is possible to do, having got a First in each of his first three years and a distinction in the MEng in the fourth year. Congratulations Liam!

The Engineering Fellows are delighted by the opportunities these inspiring awards provide.

And not least, we hope they will encourage the next generation of leading Engineers to apply to study at Selwyn.

Finally, we should also record that *The 1987 Fund* also generously supports the Cambridge Bursary Scheme, whereby the College and the University are able to provide additional funds to help students from lower income families.

We look forward to developing *The 1987 Fund* over the next few years. David and Annabelle would be very happy if other alumni wanted to join them and contribute to *The 1987 Fund* in the future, for the benefit of the next generation of students.

If you would like to discuss this further please contact: **Mike Nicholson**, The Development Director. E: mgn24@cam.ac.uk T: 01223 330403

Bridging the years

One of **Tony Gee’s** (SE 1956) first projects as a structural engineer was to design a bridge across the Parramatta River west of central Sydney, Australia.

When the Gladesville Bridge opened on 2 October 1964 it was, at 1000 feet (305 metres), the largest (longest span) concrete bridge in the world. An amazing achievement in itself, but not only that, it’s the first time that the designer of a bridge has been around to celebrate its 50th anniversary!

Right: Titan floating crane in use erecting deck beams for the roadway on the Gladesville Bridge (November 1963).



Roads and Maritime Services

Stay in touch

Twitter



There are now lots of ways to keep in touch with Selwyn and to reserve places for events. Don’t forget the telephone – it’s good to talk **01223 767844** – or better still, drop by and see us! or... **follow us on Twitter @Selwyn1882**

Facebook



If you would like to keep up with day-to-day news from Selwyn, including pictures and videos of College life and events, then ‘Like’ us on Facebook. www.facebook.com/Selwyn.College.Cambridge

Online



To book events, update your details, read the latest news from College and find old friends, join us on the Selwyn Alumni Online Community at: www.selwynalumni.com

Transforming communities

Two Selwyn scientists are working at both ends of the development spectrum in Mozambique. Joanne Beale (SE 2005) manages a water, hygiene and sanitation programme in rural communities. Andrew Beale (SE 2005) mentors and supports African university academics and researchers, raising the profile of their work.

We met at Selwyn as fresh-faced undergraduates – and, thanks to the intervention of a friend, became a couple within the first term. Little did we know that ten years down the line we would be married and living and working in Mozambique.

Joanne: I first came to Mozambique in 2007 with 3 friends, in the summer following my 2nd year at Selwyn. I was supported on that trip by a Selwyn College bursary because, as well as doing some travelling, I came to learn about an innovative and amazingly effective community development project run through the Anglican Church of Northern Mozambique (the Diocese of Niassa). On that trip I learnt how to build a bamboo structure for a latrine, that sleeping on a straw mat on a concrete floor is not conducive to a good night's sleep, and that I wasn't done with Africa! It is for that same project that I now work, managing a new water, sanitation and hygiene programme.

Andrew: My introduction to Mozambique came later than Joanne's. It was actually when we moved to live here in early 2014. A former Portuguese colony in Southern Africa, Mozambique is one of the ten poorest countries in the world. Though this year marks 40 years since independence, progress has only been possible in the last 20, after a brutal civil war stymied the early celebratory and positive post-independence attitude. I didn't speak any Portuguese when we first moved here and, to be honest, I underestimated the effect that not being able to communicate by myself would have on my settling. However, our friends and colleagues, particularly in the villages, were extremely welcoming and helpful, something that I've learned is a refreshingly normal character trait of the people of this country.

Within the first couple of months in Mozambique we went on a number of field trips to villages and communities that would be the scene of Joanne's work. In one trip Joanne and I, with

two colleagues, went to observe and encourage the work taking place in a remote group of villages in the north of the Mozambican shore of Lake Malawi. There is no road access to this group of villages, so we went by bicycle. The total trip was no more than 30 km, but took us 7 hours as we battled the swollen rainy-season rivers that cut our path, sheltered from rainstorms and carried our bikes through deep sand. Though we were all exhausted, our colleagues still went out of their way to help us cross each river. In general the infrastructure in Mozambique is still limited: there are no tarred roads out of the town we live in and very few villages we are working in have access to schools, health centres or safe water.

Joanne: Whilst you often wouldn't know it from the joyful dancing and beautifully sung harmonies, life is difficult here. Mozambique has one of the highest child mortality rates in the world and the province of Zambézia where we live has the highest rate in the country: 141 children in every 1000 die before their fifth birthday¹. It is thought that 12% of these deaths are caused by diarrhoea and stopping these easily preventable deaths is one of the main objectives of our project.

The biggest aspect of my small team's work is to harness the skills and aspirations of the communities with which we work, to facilitate their own transformation through emerging natural leaders. My staff are becoming skilled facilitators, able to lead activities and discussions which enable people to learn for themselves. The staff work initially with hygiene volunteers from different communities; these volunteers then teach neighbourhood representatives; these representatives then teach door-to-door. Through this network of volunteers we've reached 36,500 households and 30 schools, with key hygiene messages around hand washing, storage and household treatment of water, latrine construction and treatment of diarrhoea.

"This project is seeing great changes: latrine coverage (households having their own latrine) has gone from 39% to 86%; we've seen a thirty-fold increase in knowledge about the causes and ways to prevent diarrhoea; five times more mothers knowing how to treat diarrhoea; and, most importantly, a 80% reduction in diarrhoea in children under 2 and a 90% reduction in diarrhoea in mothers. The whole team is really excited by the progress we have made and the transformation we are seeing in the communities."

A few weeks ago we were in a community called Chimbilo where we were shown to a disused hand pump hidden by tall grass which we were informed had been out of action for 15 years after just 2 years of operation. We opened it up and luckily, perhaps because of its hiding place behind the grasses, all the parts were still in place. We replaced a small rubber seal, which had simply reached the end of its 2-year design life, and for the first time in 15 years we pumped safe drinking water from the ground. A major goal for our team is not to let this happen again: this year our project has trained 40 hygiene committees



Top left: the whole community must help in the construction of new wells. **Bottom left:** Joanne shows the well committee the petrified rubber seal that stopped this pump from working for 15 years.

Top right: we encourage people to build these simple taps near to their latrines for easy handwashing. **Bottom right:** Andrew in Milange market: this is how we buy all our day-to-day food.

in basic maintenance and repairs to fix problems before they take pumps out of action. These committees are also in place at the 8 new wells and 3 rainwater-harvesting tanks we've constructed across the Diocese.

Andrew: While Joanne has been busy in the field, I have been busy at home, keeping up to date with the latest biological research and communicating with nearby universities. I volunteer for TReND, a multinational charity connecting European and African universities, founded by two Cambridge alumni, and AuthorAID, who support researchers from developing countries in publishing and communicating their work. I am an academic mentor for AuthorAID, and help two scientists with aspects of manuscript planning and writing. This role has spilled over to my position in TReND: at the beginning of September I will be delivering a week long training course on scientific writing and communication to 30 students from all over Africa. This will help them learn the key communication skills necessary in the research environment, increasing the impact of African research on the global scale, and furthering sustainable development through scientific innovation.

Joanne: Living in community has been a blessing for us here: we're constantly inspired by people's resilience and their innovative ways of addressing challenges and we hope we're learning from them. We have got to know our Mozambican neighbours very well, often being visited by our neighbour's singing and dancing 4-year-old daughter Mira who loves asking us questions. In May another neighbour asked us to name their new-born son. While it seemed very strange at the time, responsibility like this is common between friends, but we felt very privileged nonetheless. We chose the name Jonah which works in both English and Portuguese, but Mira gets a little confused by the pronunciation and calls him Joana, the name I go by here!

This year we have been grateful to receive support from Selwyn Chapel, which is a wonderful way to stay in touch with College when we're physically so far away.

¹ http://www.who.int/maternal_child_adolescent/epidemiology/profiles/neonatal_child/moz.pdf?ua=1

For more insights into day-to-day life we keep a blog at <http://handstolearn.wordpress.com>. To donate visit: www.justgiving.com/WASH/



WikiLeaks timeline

June 1971	June 2010	November 2010	6 June 2013	July 2013	June 2013	July 2013	August 2013
New York Times publish extracts from the leaked Pentagon Papers about the US's political-military involvement in Vietnam.	WikiLeaks, the Guardian and The New York Times publish details based on 90,000 leaked secret US military records relating to the war in Iraq and Afghanistan.	WikiLeaks, the Guardian and The New York Times publish details based on more than leaked 250,000 classified cables from US embassies.	Guardian publishes first story based on the Edward Snowden disclosures - about how US telecoms giant Verizon handed over call data to the FBI.	Chelsea (formerly Bradley) Manning convicted of 20 counts relating to the transmission of state secrets to WikiLeaks; sentenced to 35 years.	Guardian publishes first GCHQ focused stories based on the Edward Snowden disclosures.	Overseen by GCHQ technicians, Guardian editors destroy hard drives and memory cards on which encrypted files leaked by Edward Snowden had been stored.	David Miranda, partner of Guardian journalist Glenn Greemwald detained at Heathrow.

The fine line between surveillance, security, & freedom

Gill Phillips (SE 1977) talks about *The Guardian* newspaper's publication of the Edward Snowden WikiLeaks, from a lawyer's perspective.

Illustration: Alex Green

In May 2013, I was coming to the end of a three-week working stint in Australia. The *Guardian* was just launching its Australian website and I, as the head of the *Guardian's* Editorial Legal Department, had gone out there to help them put in place external lawyers to carry out their pre-publication legal reading – Sydney being, after London, the libel capital of the world. Before flying back to the UK, I was taking a quick trip to the Blue Mountains, a couple of hours by train from Sydney. It's a very remote, peaceful, and wild part of Australia. A place to relax and chill out. Not long after I got there, I took a call from Alan Rusbridger, the then editor of the

Guardian. He was very brief and very cryptic – there was something big coming down the line, bigger than WikiLeaks, but he couldn't discuss it on the phone, his call might be being tapped; could I give him the names, urgently, of some good US lawyers on national security issues. I duly obliged. A couple of similarly short and cryptic calls followed and a few days later, I was reading with amazement, like so many others, the *Guardian's* extraordinary revelations about the US's National Security Agency and Verizon, about how an April 2013 order of a US secret court established under the US Foreign Intelligence Surveillance Act 1978 had required one of the largest US telecoms providers, Verizon, to give the FBI metadata about all telephone calls on its systems over a 3-month period. This was followed by the explosive story of the existence of the NSA's PRISM programme that tapped into the user data of big US corporations such as Apple, Google, Facebook and others in order to collect material for the purposes of searching it. Instead of flying back to London, via Hong Kong, as scheduled, it was suggested that I should stay over in Hong Kong for a few days. Putting two and two together, I realised that Hong Kong was where the story was at. Fortunately, I'd had some previous experience of this sort of story, with WikiLeaks. When the first WikiLeaks material arrived in the *Guardian's* newsroom in mid 2010, I have to confess my heart

sank. I'd dealt with tricky multi-jurisdictional stories in my career before, you don't work at the BBC and the *Times* and the *Sunday Times* without being presented with challenges, but the Wiki logs and cables were whatever I had come across before, multiplied a thousand fold. They threw up the whole range of media law headaches, from possible breaches of the Official Secrets Act to privacy issues, defamation and even copyright. Dealing with WikiLeaks had taught me the tactical and legal value of cross-jurisdictional, collaborative reporting: the *Guardian* had agreed to run the WikiLeaks stories in conjunction with a number of other titles around the globe, including *The New York Times*, *El Pais*, *Le Monde* and *Der Spiegel*. This ameliorated significantly the risk of a pre-publication injunction stopping the *Guardian's* presses in the UK – even if the UK or US Governments might get an injunction against the *Guardian* in London, there was little point practically speaking, if the same information was going to be published come what may in America, Spain, France or Germany. This gave us the legal freedom to publish in a way that would have felt impossible 25 years ago. I arrived in Hong Kong in the middle of the night, with no local currency, no map and no idea where my hotel was. The name of Edward Snowden was unknown to me. The next morning, after four hours broken sleep, I was woken by one of the *Guardian's* journalists, Ewen

(continued from previous page)

MacAskill. He gave me 30 minutes to get dressed, told me to leave all my electronic gadgets behind in my room, and took me on a short trip on Hong Kong’s famous Star Ferry. We disembarked and went to an empty, open park, where there were no trees. There Ewen explained to me the dangers of electronic gadgets, which he told me could track your location and act as transmitters. He filled me on what had been going on. He told me about Glenn Greenwald and Laura Poitras. He told me about Edward Snowden and the data he had brought with him from the US. Snowden’s name was still not then public, though within 24 hours it would be known around the world, when, on 9 June, Snowden gave a public interview, broadcast by the *Guardian*, identifying himself as the source of the intelligence leaks and explaining why he went public. My head was swimming. It was hard to take all this in.

There were so many legal and practical issues to discuss, how to handle the data, what could we publish, how should we go about that, how could we protect Snowden, were our journalists and our journalism at risk? It was very much flying by the seat of your pants stuff. Very exciting, but very nerve racking, particularly once Snowden had given his video interview, and people knew who he was, worked out he was in Hong Kong and started looking for him.

The hotel I was staying in, along with Ewen and Glenn, suddenly found itself at the centre of an unwelcome media scrum. Snowden sensibly was ensconced in a different hotel. Our hotel decided it no longer had rooms available for Ewen or Glenn – fortunately it didn’t connect me to them. Ewen and I went off in a taxi and booked rooms in a new hotel using my name and my credit card, as we didn’t want them to make any connection to the *Guardian*.

On 10 June, after a hectic morning, avoiding reporters and camera crews, Ewen and Glenn and I were camped out in my hotel room, checking out the credentials of lawyers for Snowden. Satisfied they were who they said they were, Glenn put them in touch with Snowden and they were able to get him out of his hotel to a place of safety. The rest, as they say, is history.

Three days later I was back in London, getting to grips with the fact that the Snowden data leak wasn’t just a US story about the NSA, but was also very much about the data gathering activities of the Government Communications Headquarters (GCHQ), the British intelligence and security organisation responsible for providing signals intelligence (SIGINT) and information to the British government and armed forces. Suddenly, there were not “simply” US legal issues to consider, but some very real high profile UK legal issues around national security and the Official Secrets Act. The next few very intense days were spent working out how and what UK focused stories about the activities of GCHQ we could safely publish in the public interest.

Once we started publishing the GCHQ stories there was an enormous amount of vocal opposition directed against the *Guardian*. There was political and Government pressure on the *Guardian* to hand back the data it had. In the end,

Alan Rusbridger decided that rather than hand it back, as there were already copies of the same data elsewhere, including in the US, we would destroy the data we had in the UK.

In August, I was camping in Wiltshire and Alan was from memory taking a nostalgic canoe trip with a friend, when we received a series of calls and emails from Glenn Greenwald to the effect that his partner David Miranda had been detained at Heathrow airport. From my tent, I had to locate a lawyer to head to Heathrow and try and gain access to David Miranda.

The knowledge and the lessons we learnt, good and bad, from the WikiLeaks experience, was invaluable when it came to handling the Edward Snowden disclosures. The UK is still one of the more restrictive publication arenas, while America, with the wide protections offered by the First Amendment, is the other extreme. If we look to Europe, Article 10 which protects freedom of expression, is a qualified right, whereas the First Amendment is pretty much an absolute one. The early Snowden stories were primarily US focused – although their implications of course went far wider – but because of the First Amendment, from a legal perspective, the US was a much less risky regime to publish from than the UK. For example, in the US, the risk of a pre-publication injunction is virtually nil, because of the US Supreme Court’s decision in a case in the early 1970s known as the Pentagon papers. The US approach also allowed for a “mature dialogue” with the US Government before publication, so as to eliminate, as far as possible, real risks of harm and damage.

During the Edward Snowden disclosures, the *Guardian* partnered with a number of international newspapers, most particularly the *New York Times*. This allowed us to get the benefit of the more relaxed approach in the US to speech issues. A newspaper is no longer as vulnerable as it might once have been if it had run a story of this nature entirely on its own. It would have made a nonsense if the UK Government had sought to prevent the *Guardian* from publishing the Edward Snowden stories in the UK, if the US State Department weren’t going to, and the stories were still going to be published everywhere else, whether by the New York Times, or by Glenn Greenwald in Brazil or Laura Poitras in Berlin.

Whether you agree with the actions of Edward Snowden or not, whether you think of him as a whistleblower or a criminal, there can be no doubt that his revelations have taught us many important things: that governments and commercial organisations are sweeping up, keeping and using massive amounts of our digital electronic communications; that there is a need for balance and a proper debate as to where the line should be drawn between protecting citizens’ security, state surveillance and individual privacy. Our appreciation of concepts such as privacy has been changed forever. The public is much more aware of the dangers the Internet poses for personal privacy, and recognises that there is a price for civil society to pay if it wants increased security as part of the fight against terrorism.

SELWYN CHOIR: ON TOUR

Pacific North-West Tour

Itinerary: Seattle and Sequim, WA; Victoria and Vancouver, BC.



Over twelve months of planning, emails, press-releases, ESTA applications, insurance policies, ferry booking, fund-raising, and of course, a few rehearsals, culminated in an excited coach-load of choir members heading towards Heathrow one morning in July. About 16 hours later, we arrived in a sunny and very warm Seattle, where downtown’s Plymouth Congregational Church awaited us with a very welcome supper. After some much-needed sleep with homestay families, sight-seeing and rehearsals filled the next couple of days. Our first performance was in the church’s beautifully refurbished sanctuary, where we officially launched our latest recording, “*The Eternal Ecstasy*”, with music in the so-called Choral Ecstatic style, by the likes of Eric Whitacre, Paul Mealor, Morten Lauridsen, and Cecilia McDowall. A capacity audience and a standing ovation were gratifying recognition of the choir’s very fine singing that day. Our next stop was the tiny retirement village of Sequim (pronounced “S’quim”), on the north coast of Washington State. St Luke’s Episcopal (Anglican) Church were our hosts, and again, the food was copious, the welcome was warm, the weather was gorgeous, and a capacity audience gave us another standing ovation.

We then took the Coho ferry from Port Angeles to Victoria, British Columbia, which happens to be my home. I have toured many parts of the world with the choir, but this was a first for me, and I will admit to feeling slightly nervous about “prophet in one’s own country” syndrome. I needn’t have worried, as the choir sang spectacularly well (receiving another standing ovation), and they also all loved Victoria. Our concert, in an absolutely packed Christ Church Anglican Cathedral, was attended by the Lieutenant Governor of British Columbia (the Queen’s official representative in the province), and we dedicated the performance

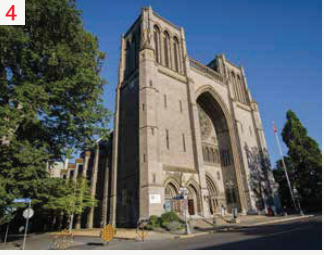


Image key
1. On the Bainbridge Island ferry.
2. In concert in Plymouth Congregational Church, Seattle.
3. Sold out in Sequim 4/5/6.
4. Christ Church Cathedral, Victoria BC.
5. With the Dean of the cathedral (far left); the Lieutenant Governor; the Master; Sarah MacDonald (far right).
6. Members of the choir before the concert in Victoria BC.
7. After our final performance, in St James Church, Vancouver BC.
8. Swimming in the sea at a “dock party” in the Saanich Inlet, Victoria BC.

to Owen Chadwick, whom the choir adored. In Victoria, we also sang two services, and did plenty of sight-seeing, but the undoubted highlight was a “dock party” at the water-front home of a member of the cathedral choir, on the Saanich Inlet. We swam in the sea, basked in the sun, went boating, inner-tubing, and kayaking, enjoyed a barbeque, and finally watched a glorious sunset over the mountains and the Pacific. I think the choir got a real sense of just how magnificent Vancouver Island is, and I will admit to wondering again just why I don’t actually live there! The tour continued with three wonderful days in Vancouver, where we had yet more glorious weather. Another sold-out concert (in the acoustically stunning Anglo-Catholic church of St James) was received with another standing ovation, and we ended the

tour with a conducting workshop for master’s degree students from the University of British Columbia, and a very beautiful service of choral Compline. The choir sang absolutely outstandingly throughout the tour, and they were rewarded on their return to the UK by finding “*The Eternal Ecstasy*” in the top ten in the Official Specialist Charts. Although I miss British Columbia daily, it is because of Selwyn Choir that I don’t actually live there – their singing was as polished, professional, and accomplished as I could ever have asked, and I am very grateful to them. I also want to thank all the Friends of the Choir, the many alumni, Fellows, and staff of the college who helped to make this tour possible. It couldn’t have happened without you. Sarah MacDonald (Director of Music).



Professor Sir Colin Humphreys pictured in the Cambridge facility for growing Gallium Nitride for LEDs. He is shown here with an unprocessed 6 inch silicon wafer on which Gallium Nitride LED structures have been 'grown'.

Professor Sir Colin Humphreys C.B.E	1960-63 Imperial College London, BSc in Physics.	1967-85 Department of Materials, Oxford and Fellow, Jesus College, post-doc then University Lecturer.	1990-present Fellow, Selwyn College and Department of Materials Science, Cambridge, Goldsmiths Professor, Head of Department and now Director of Research.	1996 Started to research Gallium Nitride grown by other scientists. Elected as a Fellow of the Royal Academy of Engineering	2000 Donated Gallium Nitride growth reactor by industry and founded the Cambridge Centre for Gallium Nitride.	2001 Awarded the A. A. Griffith Medal and Prize. 2003 Awarded a CBE for services to science as a researcher and communicator	2009 Produced the first fully processed Gallium Nitride LEDs grown on a 6-inch silicon wafer in the world.	2010-11 Set up two companies to exploit the technology. Knighted in the 2010 Birthday Honours. Elected Fellow of the Royal Society.	2012 Plessey acquires the Cambridge technology.	2014 Manufactured in Plymouth, Plessey sells 2 million LEDs based on the Cambridge technology. The first UK manufacturing of LEDs. The first commercial Gallium Nitride on silicon LEDs in the world.
--	--	---	--	--	---	---	--	---	---	---

The light fantastic

Professor Sir Colin Humphreys (SE FELLOW) is a world leader in the research into the energy saving properties of LED lights. Here he explains how future developments will improve our health, reduce cancer and improve exam performance!

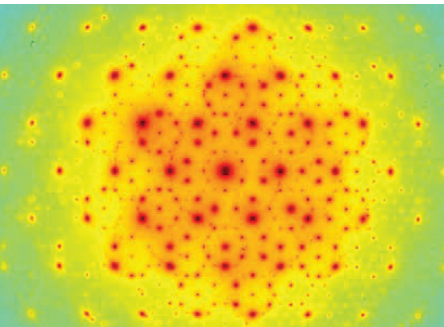
Portrait: Marcus Ginns

Right: Electron diffraction pattern from gallium nitride on germanium.

Far right: Testing gallium nitride LEDs on a 150 mm (6 inch) silicon wafer in the probe station.

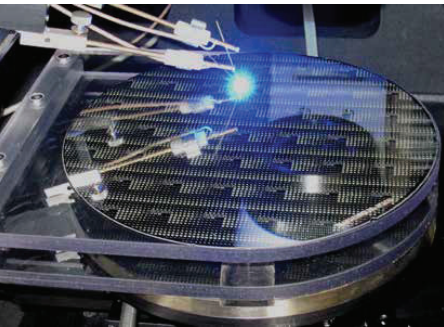
Today we take lighting for granted, but ancient civilizations knew of its supreme importance. From about 2900 BC onwards the main god of ancient Egypt was Ra, the sun god, the bringer of light and life. The main god of ancient Mesopotamia was Sin, the moon god, bringer of light at night. In the biblical creation account in Genesis, light was created on the first day, before anything else. Today, we are poised to appreciate again the importance of light.

Light emitting diodes (LEDs) are made from materials which emit light when an electric current is passed through them. All the blue and white LEDs sold commercially are made from a man-made material, gallium nitride (GaN), that I have been researching since 1996 and making since 2000. Good quality LED lamps last for about 15 years of typical household use, but may last for 60 years in the future (so some of the people reading this article may never need to replace an LED lamp once fitted!).



Lighting uses 20% of all electricity in the UK. If LEDs become widely adopted they will reduce this figure by 50%, so lighting will then use 10% of electricity. The 10% electricity saving amounts to over £2 billion per year. If this electricity is from fossil-fuelled power stations (most is) then 10% of carbon emissions from power stations will be saved. LED bulbs you can purchase now are already six times more efficient than incandescent light bulbs. GaN LEDs in the laboratory are 12 times as efficient as incandescent light bulbs and almost three times as efficient as CFLs (compact fluorescent lamps). These will be commercially available in the next few years.

About 5% of all lamps sold today for lighting are LEDs. The main factor preventing their more widespread use is cost. A 60W equivalent LED replacement bulb costs £15, which not many people will pay even though it rapidly saves money in electricity savings. My group has pioneered the development of low-cost GaN



(continued from previous page)

LEDs. Our patented research has been acquired by Plessey, which is now manufacturing our LEDs in Plymouth, Devon. This is the first manufacturing of LEDs in the UK. Plessey sold 2 million of these in 2014 to other companies to incorporate into products such as light bulbs. The cost of LED bulbs will therefore decrease rapidly in future years and they will become widespread in our homes and offices.

Today's white LEDs are made from blue LEDs coated with a phosphor, the combination producing white light. The next generation of white LEDs will not use phosphors but will be made from mixing red, green and blue LEDs in a single light bulb.

A remote control, like a TV control, will be able to tune the colour of the light emitted so, for example, you could have reddish-white light for a romantic dinner! More seriously, we will be able to mimic sunlight inside our homes and offices, having reddish-white light at dawn and dusk and bluish-white light at midday.

"...the good news is that we will be able to mimic sunlight indoors with LEDs and so produce vitamin D in our bodies when we are at home and at work."

Life on earth has developed over millions of years in natural lighting, sunlight, and there is increasing evidence that such lighting is good for our health. For example, vitamin D is manufactured in our skin when exposed to sunlight. In the UK, 90% of our vitamin D comes from sunlight on our skin and only 10% from food. Vitamin D has a protective effect against certain cancers (e.g. breast, prostate) by preventing the overproduction of cells. Two-thirds of the UK population is severely lacking in vitamin D. Vitamin D deficiency also leads to a weak immune system, fatigue and headaches. However, the good news is that we will be able to mimic sunlight indoors with LEDs and so produce vitamin D in our bodies when we are at home and at work.

Over three million people in the UK suffer from SAD (Seasonal Affective Disorder). It is mainly a winter ailment caused by lack of sunlight, leading to a deficiency in Serotonin. LED lighting can boost Serotonin levels and hence help to overcome SAD. Optimised LED lighting can also improve productivity at work. In schools it can reduce absence due to illness and boost performance. It can even improve exam results in universities! We are on the verge of a revolution in LED lighting.

See also page 5 for information about Sir Colin Humphreys' Christmas lecture.



CONFERENCE FACILITIES

Bring your event to Selwyn



Selwyn alumni receive discounted rates

Are you planning your next away day, board meeting, conference or formal dinner? Here at Selwyn we have meeting rooms and dining facilities available all year round and on offer to you, as Selwyn alumni, at a discounted rate.



Accommodation

We also offer residential bookings during student vacations, offering around **230 ensuite bedrooms** in Cripps Court and Ann's Court as well as **100 bedrooms** in Old Court.

Experienced team

With our experienced team, we offer all the help you need to make your event a success. Contact our Catering and Events Team to organise your event and also take advantage of our discounted alumni rates.

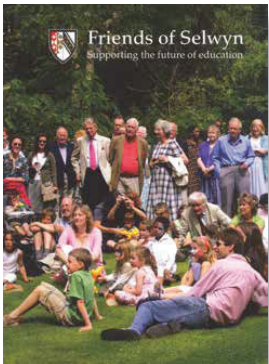
Contact us on:

**E: catering@sel.cam.ac.uk
T: 01223 335855
www.sel.cam.ac.uk/conferences**

www.sel.cam.ac.uk/conferences

'Friends of Selwyn' launched

Development Director and Fellow, **Mike Nicholson**, introduces an exciting new initiative that he hopes will lead to broader involvement and increased support for Selwyn.



Inside this issue of SELWYN you will find a leaflet – Friends of Selwyn – inviting you to be part of new initiative that aims to provide additional funds for education, teaching and the support of future generations of students at Selwyn College.

organisations in that you can choose at which level you wish to join: Friend; Patron; or Master's Circle. We hope that the minimum level of involvement – £75 p.a. (less than £1.50 per week) – will be affordable to many.

To mark the launch of the Friends of Selwyn, we will be creating additional events and opportunities to get together. Initially, many of these will take place in London or Cambridge. In time, we hope to create more events across the country and internationally – but for now, our focus will be on providing new events in London and Cambridge, where the majority of our alumni have relatively easy access. Our aim is to increase the number of regular opportunities where you can engage intellectually and socially in the best Cambridge tradition.

By creating Friends of Selwyn, we want to extend the hand of friendship to the many individuals who wish the College well and who may want to help in a practical way. Many people comment that Selwyn is one of the friendliest of Cambridge colleges; I hope that this initiative underlines that spirit and will prove successful. All Friends will be recognised in the Annual Report from 2016.

We're very grateful to everyone who supports Selwyn already, but we want to be better at recognising the valuable contribution made by alumni – and also encourage a wider group of people to join us in guaranteeing the future of the College and its educational mission. That's why we've launched the Friends of Selwyn scheme; and all alumni who already contribute £75 a year or more will automatically become a member of it. If you choose not to become a Friend, alumni privileges – such as receiving publications, notice of lectures and attending reunions – will, of course, be unaffected.

Friends of Selwyn is a simple and straightforward scheme that is open both to alumni and to anybody who supports the aims and objectives of the College: parents and families; friends and visitors. Its structure will be familiar to many of you from other charitable

Alumni & Friends events

Below is a diary of the events we have organised over the next few months. (You can also find the diary dates for the regular alumni programme on page 23 which will continue as before)

OCTOBER '15	FEBRUARY '16	MAY '16
Wednesday 28 October Richard Davenport-Hines on the subject of his new biography <i>Universal Man: the Seven Lives of John Maynard Keynes</i> Oxford and Cambridge Club, London. Drinks: 6.15pm Talk: 7pm Dinner: 8.15pm Tickets (to include refreshments) £10.	Thursday 25 February Peter Forbes on 'Dazzled and Deceived' the remarkable story of Selwyn Fellow, Hugh Cott and the invention of Camouflage. Oxford and Cambridge Club, London. Drinks: 6.15pm Talk: 7pm Dinner: 8.15pm Tickets: (to include refreshments) £10 Dinner: £60.	Wednesday 25 May Dr Robin Hesketh "The Secret of Life" in this talk based upon his new book of the same name, Dr Hesketh introduces non-scientists to cells, molecules and cancer. Oxford and Cambridge Club, London. Drinks: 6.15pm Talk: 7pm Dinner: 8.15pm Tickets: (to include refreshments) £10 Dinner: £60.
THURSDAY 29 OCTOBER	DECEMBER '15	APRIL '16
Private visit to the Royal Naval College, Greenwich. Visit includes Christopher Wren's magnificent Painted Hall, 'the Sistine Chapel of the UK'. Visit led by Conservation Director, Will Palin. 10–11.30am. Tickets: £10 Dinner: £60	Tuesday 8 December The Selwyn London Carol Service with the Selwyn College Chapel Choir. St James's Piccadilly, London. 7pm.	Wednesday 27 April 'From Soap Boxes to Tea Sets: How the Suffragette Movement got into People's Hearts and Homes'. By Antonia Byatt Oxford and Cambridge Club, London. Drinks: 6.15pm Talk: 7pm Dinner: 8.15pm Tickets: (to include refreshments) £10 Dinner: £60.
NOVEMBER '15	JANUARY '16	
Tuesday 10 November Sir Colin Humphreys 'Lighting the Future' or how the next generation LED Lighting will save energy and improve our health. Armourers and Brasiers Hall, City of London. Drinks: 6.15pm Talk: 7pm Dinner: 8.15pm	Wednesday 27 January Simon Heffer on 'High Minds: The Victorians and the Birth of Modern Britain'. Oxford and Cambridge Club, London. Drinks: 6.15pm Talk: 7pm Dinner: 8.15pm Tickets: (to include refreshments) £10 Dinner: £60.	All events subject to confirmation and full details for each event will be available on the website. Friends enjoy priority booking. Guest tickets may be purchased. RSVP advisable as places for all events are inevitably restricted. General booking opens on 28 September. To make a booking – please go to www.selwynalumni.com/eventscalendar Or for further information please contact the Alumni, Friends and Development Office alumni-office@sel.cam.ac.uk Tel: 01223 767844

Booking for Friends is now open

15/16



Left: Jon Reynolds, co-founder of SwiftKey in his London office.

work effortlessly. Not only do we use this technology to power our smartphone app, but we share it with a handful of companies. Take Samsung, who use SwiftKey to improve the keyboard on their touchscreen devices, or Intel, who we collaborated with on Hawking's new speech system.

So what's the Selwyn connection?

It was Graduands' Week and I had just finished studying law. Everyone at College was being sentimental about leaving and I ended up chatting to fellow C-staircase resident **Jon Reynolds** (SE 2004), who had decided to finish his Nat-Sci studies after three years to take up a job in the Civil Service. We were both eager for a new challenge, and agreed to stay in touch. We joked that we had mutual respect for each other and, one day, should team up to do something a bit risky and disruptive.

A couple of years later, that moment happened. Jon and I bumped into each other at a reunion of College friends in a Hammersmith pub. Whilst working in the Civil Service, Jon had noticed a growing number of his colleagues were struggling to type on what appeared to be smartphones with 'shrinking typewriters'.

Jon was convinced we could do better. He started to investigate whether using two branches of artificial intelligence – machine learning and natural language processing – would give better results on smartphones, especially as they seemed to rapidly be getting much more powerful. He had enlisted the support of another friend from Cambridge, Dr. Ben Medlock, who held a PhD in artificial intelligence from Fitz. At the pub, Jon pulled an iPhone out of his pocket and showed me the first prototype. I saw great promise. "Let me know if I can help. We should team up and make this famous," I said.

Soon after, I joined Jon (CEO) and Ben (CTO) as the "marketing guy", alongside my day job as a journalist at Sky News. And in 2010, after we raised our inaugural round of seed capital, I became one of the company's first employees. Today, we have a team of over 150 people with offices in London, San Francisco, Seoul, Hong Kong and New Delhi. We also call five Selwynites staff – the others being **Joe Osborne** (SE 2004), **Chris Carr** (SE 2004) and, until recently, **Alex Nixon** (SE 2004).

The predictable type



Founded by Selwynites Jon Reynolds (above) and Joe Braidwood (both SE 2004), SwiftKey is regarded as one

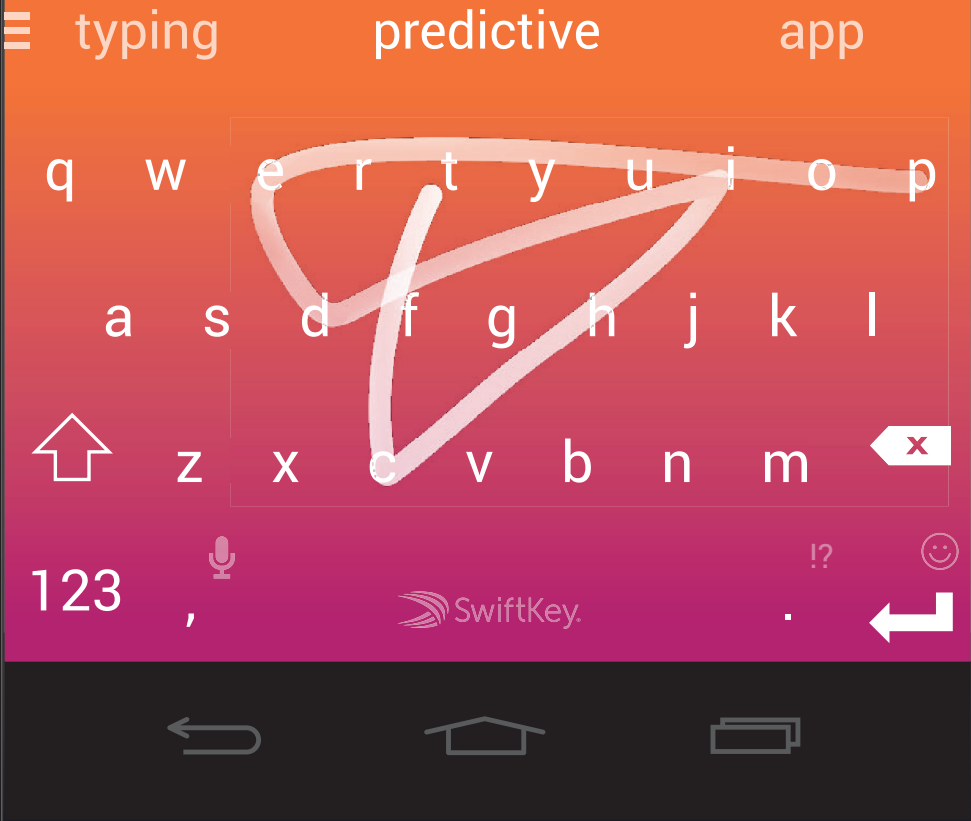
of the leading technology start-ups in Europe, having changed how over half a billion people type. We speak to Joe about the predictive keyboard phenomenon that counts both Stephen Fry and Professor Stephen Hawking as avid users.

So what exactly is SwiftKey?

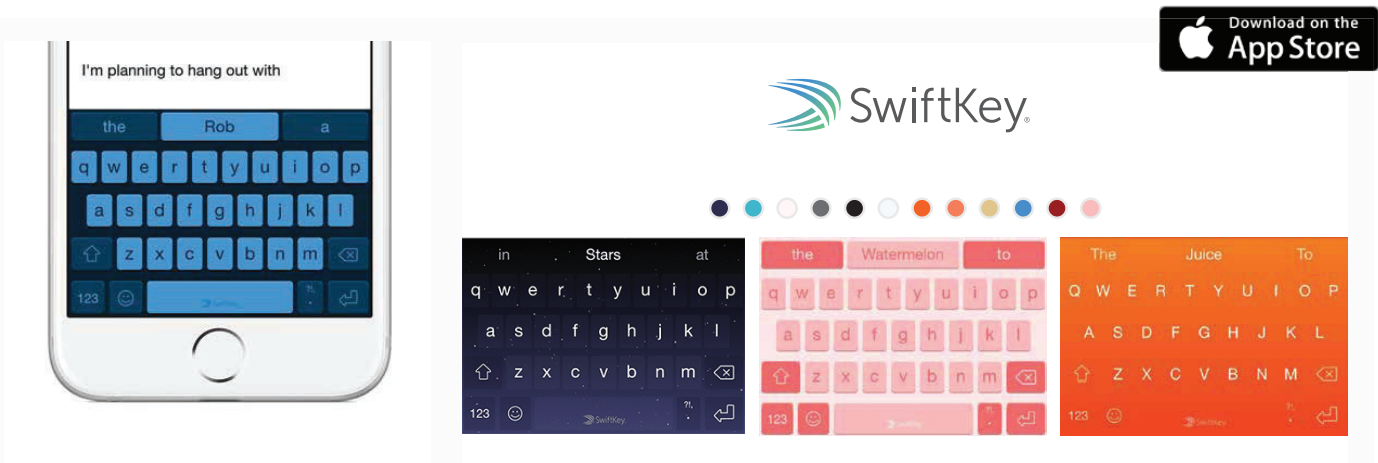
Primarily, SwiftKey is an app that upgrades the default keyboard on your smartphone's touchscreen with one that's more intuitive and intelligent. It pays attention to the words and phrases you use over time and does a better job at usefully predicting them when you type. The result is that you spend less time fussing over typos and more time being able to express yourself.

Sounds simple, except it's not. Predicting language in a way that's tailored to each of our users individually is far from trivial. So when we talk about SwiftKey, we're also referring to all of the complex technology that makes our keyboard

SwiftKey is a



SwiftKey 'Flow' enables users to type characters by gliding over the keypad screen. Its predictive functions anticipate the word in full as you type.



Above: SwiftKey predicts the next word as you type in.

Top right: With the SwiftKey app you can customise your phone's keypad selecting from a range of design 'themes'.

Below: 'Flow' – a new development from SwiftKey, enables users to type using a glide motion over the screen.

‘One of the big British successes in the apps world.’

The Guardian

With SwiftKey's technology on over half a billion phones, what comes next?

We're just getting started. There's an emerging confluence of factors that we think will make artificial intelligence a much bigger part of our everyday lives. And no, we're not talking about the sort of evil AI that spawns the Matrix. We're talking about so-called 'narrow' AI that solves everyday problems, making technology increasingly useful and applicable to people, everywhere.

Sensors, ubiquitous broadband connectivity, cloud computing, cheap storage, the internet of things and, most importantly, software that can automatically learn and improve itself... in the coming years, these elements will combine to yield quite extraordinary gains in productivity and creativity. We'll reach a new, frictionless, near-archetypal ability to eradicate mediocrity through delegating it to technology.

At SwiftKey, we see it as our mission to enhance what people gain from this revolution. That means we've still got a lot of work to do. When we started out, we chose touchscreen typing because as an experience it was riddled with difficult problems that we thought we could improve. Working on this taught us that whenever you feel technology isn't serving your everyday needs well enough, the chances are that we can do far better. Rinse, repeat, and you have a much more productive, creative world.

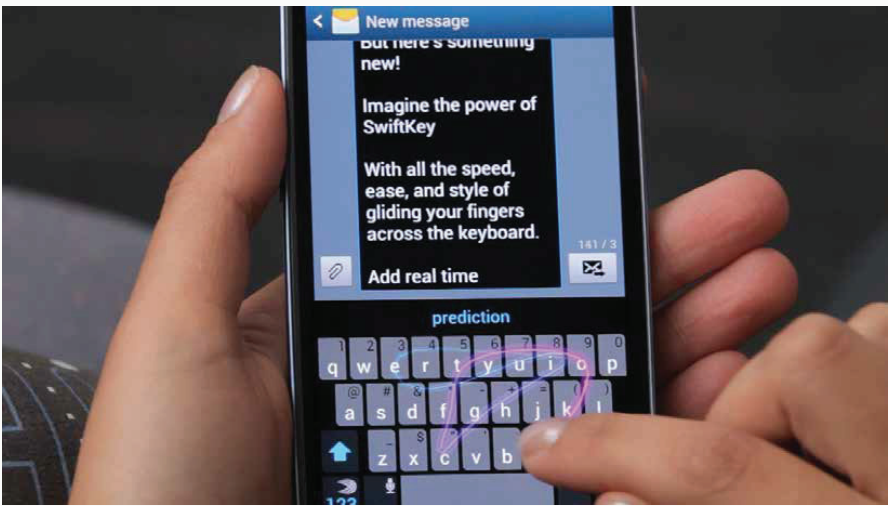
How did the project to build Prof. Hawking's new speech system come about?

When we realised that our technology could train itself on a corpus of text and then

'speak' in the parlance of a famous writer, we became excited. We built a computer programme that spun out poetry like Shakespeare. We let our users celebrate Her Majesty's diamond jubilee by typing in the real Queen's English. We even befriended Stephen Fry on Twitter with a language model trained on the complete works of Dickens.

After a while, we began to think that there was a bolder purpose to this side of the technology that we had invented. We'd been calling smartphones 'constrained devices' for some time, due to their small screens, but we all began to think. What about the user? What if they were constrained?

As a company with a Cambridge heritage, Prof. Stephen Hawking became the focal point. We commenced a campaign to get in touch with the person, wherever they may be, that was responsible for Hawking's speech system. Several months later, a team of engineers led by **Joe Osborne** (SE 2004) began work with Intel on a new solution. Our conversations came about at the perfect time. Thanks to the way SwiftKey was able to 'think' like Hawking and predict whole phrases based on his previous works, the professor was sold. When the system was announced after two years of development, Hawking's input rate was said to have doubled.



‘I don’t do money, buildings or drains’

As **James Keeler**, Senior Tutor at Selwyn, prepares to step down to take up a new position as Deputy Head of the Department of Chemistry, we asked if he would explain what it is that a Senior Tutor does and why it's such an important role for a Cambridge college.

It is a commonplace that time seems to accelerate the older one gets, but as I look back over my seven years as Senior Tutor I cannot help but feel that, commonplace though it may be, it has certainly been true for me. It seems like only yesterday that I faced the daunting prospect of following on from **Michael Tilby**'s very successful period as Senior Tutor, and now I find myself hoping that my successor **Mike Sewell** will find things in as good a state as I did. I also find myself feeling somewhat regretful, or possibly guilty, about all those things which I never quite got round to attending to over the past few years, but I can console myself with the thought that Mike will surely attend to these matters without delay.

So what exactly does the Senior Tutor do? This is a question I have had to answer many times over the past few years since, although in Cambridge people more or less understand what the role involves, outside our little bubble the title rather confuses people. My short answer to this question is generally to say that anything which is student-oriented and does not involve money, buildings or drains is the Senior Tutor's responsibility. A major part of the role is to make sure that the College is able to provide the highest quality and range of teaching that we can, so that our students have the best possible educational experience. In practice, what this means is making sure that we have a top-rate team of Directors of Studies and supervisors who are arranging and providing the teaching. The other main concern of the Senior Tutor is to oversee the pastoral provision within the College. This provision comes in many forms – in a structured way through the Tutors, the Chaplain, and the College Nurse, but then in many more informal ways such as the support offered by supervisors, the College staff and, not least, fellow students. It is the Senior Tutor's role to orchestrate and gently guide this complex web of provision so that each student will find the



support they need, in the right form, and when they need it.

Looking back over the past few years there have been some things which have been constant concerns. Perhaps most pressing of these has been maintaining high-quality teaching against a background in which teaching is seen by some in the University as secondary to research. Colleagues retire or move on to new roles, thus leaving gaps in our provision which need to be filled with the best people we can find. I have therefore had to spend quite a lot of time looking around the University for people who are interested in teaching and can provide what we are looking for, or sometimes making

some strategic appointments of our own. The environment is competitive: a new lecturer in a mainstream subject can expected to be courted by many Colleges looking to recruit them to their Fellowship, so persuading someone of the particular merits of joining Selwyn has been one of my tasks.

On the pastoral side things have, on the whole, been easier: we have a stable and experienced team of Tutors which has been added to as people have retired, and we are fortunate to have an exceptionally experienced Chaplain in **Hugh Shilson-Thomas**. The continuity which this core has provided to the pastoral team has been very helpful. I have, however, been conscious of the growing level of pressure which our students find themselves under. Partly this is financial, partly this is due to the more uncertain world we live in, and perhaps it is also due to the greater expectation that everyone has of themselves and others. Whatever the causes, it is clear that students do find their time at University increasingly stressful, and as a consequence they do need to have access to a range of support, and in this the College has an absolutely key role to play. It is worthwhile noting here that there has been an increasing recognition of the particular needs of graduate students within Cambridge – their need for good support is no less than that of undergraduates.

Successive Senior Tutors have had the benefit of working alongside the exceptional staff in the Tutorial office, and I am acutely aware of how much of the smooth running of the academic and pastoral side of the College relies on the skill and dedication of the team in the office. They make sure that everything is done, and done in the proper way, they pick up the pieces and are often in the front line of dealing with students – for all thus, and much else besides, I'm very grateful.

Thinking back over the past few years I recall two things that I was told when I started as Senior Tutor. The first was that if the Master, the Bursar and the Senior Tutor did not work well together, then any college was likely to be in trouble. I am therefore very glad to report that as far as Selwyn is concerned, these relationships have worked well – both **Richard Bowring** and latterly **Roger Mosey** have been very supportive of me, offering sage and timely advice and guidance. The Bursar, **Nick Downer**, has also been a great source of support in so many ways, and it has been a pleasure to work alongside him. The second recollection that comes to mind is being told by a colleague (who now occupies a senior administrative role in another university) that the Senior Tutorship was a “non-existent job”. I disagreed with him then, as I do now: the Senior Tutor without doubt plays a vital role in the life of the College. I am honoured to have had the opportunity to fill this office and I wish my successor, Mike Sewell, every success as the baton is handed on to him.

James Keeler (Walters Fellow in Chemistry) will be succeeded by **Dr Mike Sewell**, currently Director of Admissions for the Cambridge Colleges and a Fellow of Selwyn College.

2016 marks the 40th anniversary of Selwyn becoming a co-educational College. We will be celebrating this milestone in the College's history with a programme of special events.

Welcome to Selwyn...Miss



2016 offers an opportunity to celebrate the impact of co-education on Selwyn – from its significance for the College's pursuit of academic excellence to women's outstanding sporting successes. **Dr Jean Chothia** became the first woman to be elected a Fellow of the College in 1976, and since then over 2,000 women have matriculated as students and 44 women have been elected as Governing Body Fellows. Selwyn appointed its first woman porter, **Helen Arnold**, in the 1990s, and was also the first Cambridge College to appoint a woman Head Porter, **Helen Stephens**, in 2009. The 40th anniversary of the admission of women is also an important moment to celebrate the contributions Selwyn women have made after graduation in their careers and in wider society. Reconciling the demands of work and family life remains an on-going challenge for many women in the twenty-first century. However, in the UK in 1976 only a tiny percentage of working women were active in professional or managerial roles. In the meantime, Selwyn women in diverse areas, including journalism and the arts, medicine and veterinary medicine, education and the law, and as ambassadors, actuaries and priests, have shaped society differently through their professional lives.

Women undergraduates of pioneering Victorian institutions, such as Bedford College, London, and Girton College, Cambridge, changed the course of history with their entry into professions hitherto been reserved for men. This was despite the fact that women were first formally awarded the BA degree in Cambridge only in 1948. Nonetheless, in the early 1970s, the numbers of women active in such professions remained low, and there was an urgent need for more women to achieve equal qualifications to men. When the Governing Body of Selwyn voted for co-residency in 1974, it was against the background of other hard-fought social and legal developments which transformed women's ambitions in the 1970s: the Equal Pay Act 1970, the Sexual Discrimination Act 1975, and the beginnings of some limited maternity leave provision. Thus the 41 women who matriculated in 1976 transformed Selwyn, and also played an important role in the transformation of society.



Quick facts

1974
Governing Body votes for co-residency.

1976
First matriculation of women students.

1976
First female Fellow elected.

1998
First female Porter.



Send us your photos and stories

Archive material appeal

On our website, Selwyn's librarian, **Sonya Adams**, and **Dr Emily Charnock**, the Keasbey Research Fellow, will be creating a history of women at Selwyn with visual material and blog articles, and we would love people to get in touch with their own stories, pictures and anecdotes.

www.sel.cam.ac.uk/40-years

Celebrations



We hope that as many of you as possible will contribute to our celebrations of 40 years of women at Selwyn throughout 2016. These will include:

Saturday July 2

A celebratory garden party for alumni and families



Find out more!

More events will be added throughout the year. Keep up to date at www.sel.cam.ac.uk

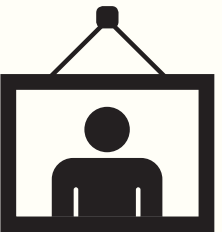
Saturday 24th September

We will celebrate the 40-year reunion with a dinner at Selwyn for the 1976 year group.



Summer 2016 at Selwyn

Exhibition of photographic portraits of Selwyn women.



We look forward very much to seeing you at the celebrations!

Diary

Note the date now!

Celebration Concert 20 November, 2016

We are delighted to announce that the acclaimed early music vocal ensemble Stile Antico will give a special concert at Selwyn as part of the 40 years of co-education celebrations. More details to follow! www.stileantico.co.uk



Eric Richmond

Other forthcoming events

2015–16

Oct 24	Old Boys/Girls Sports Day, Selwyn
Nov 12	MA Dining Evening, Selwyn
Nov 18	Talk: <i>Broadcasting past and future</i> by Roger Mosey (Master), Madingley Hall.
Dec 8	Carol Service, London
Dec 10	Varsity Matches (Men's & Women's) Twickenham
Mar 3	MA Dining Evening, Selwyn
Mar 5	1882 Society Lunch, Selwyn
Apr 2	MA Ceremony and dinner (for those who matriculated in 2009)
Apr 9	1966 and 1986 Reunion Dinner, Selwyn
May 12	MA Dining Evening, Selwyn
Jun 4	The Lyttelton Dinner, Selwyn
Jul 1	Commemoration of Benefactors (for those who matriculated in or before 1960, and in 1971, 1981, 1991 and 2001)
Jul 2	Garden Party, Selwyn
Sep 10	1996 and 2006 Reunion Dinner, Selwyn
Sep 24	1976 Reunion, Selwyn

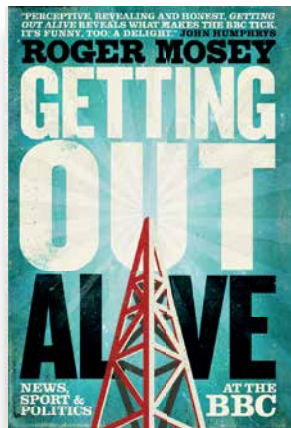
For more details and to book, visit www.selwynalumni.com/eventscalendar or telephone 01223 767844.

Choir Events 2015/16

Nov 21	Concert to mark the eve of St Cecilia, Patron Saint of Music, Tenterden, Kent. (7.30pm)
Dec 1	NSPCC Carol Service, Christ Church Spitalfields, London (7.30pm)
Dec 8	Christmas concert, Bury St Edmunds (1.10pm)
Dec 12	Charity Christmas Concert in Selwyn (Slater & Gordon Cambridge Law Firm) (7pm).
Dec 13	Christmas Concert, Lamberhurst, Kent (7.30pm).
Jan 16	CUMS joint choirs' concert in King's (with Clare, Caius, Trinity, Jesus) (Verdi Otello Act 1, cond. Richard Farnes, Opera North, King's (1983) (8pm).
Mar 14	Choral Evensong, York Minster (5.15pm)
Mar 16	John Armitage Memorial Concert, St Bride's Fleet Street, London (7.30pm).
Jun 17-20	Mini-tour to Sheffield for concerts/services
Jul 11-15	Short tour to Ireland
Jul 16	John Armitage Memorial Concert, Kent (JAM on the Marsh Festival) (7pm).

Selwyn in print

A selection of books published this year...



Roger Mosey
(Master of Selwyn)

Getting Out Alive:
News, Sport and Politics
at the BBC
Biteback Publishing, 1 July

"Perceptive, revealing and honest, Getting Out Alive reveals what makes the BBC tick. It's funny, too. A delight."

John Humphrys

"A hugely enjoyable book. Roger Mosey was a good and unflinching companion on the road to London 2012 and witnessed the Games from a unique perspective. He is a believer in the power of sport to inspire and the importance of critical friends in enduring partnerships."

Sebastian Coe

"His book paints a wonderfully accurate picture – sometimes painfully so – of the inner workings of the BBC: its high hopes and petty jealousies, its triumphs and disasters."

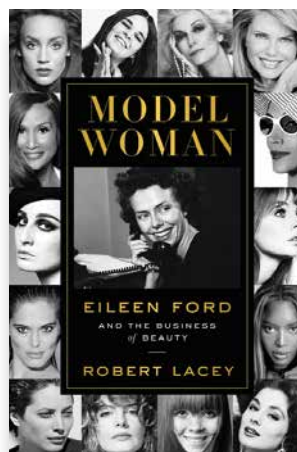
Robin Lustig,
New Statesman

As well as his career at the BBC, Roger Mosey's

book covers his relocation to Cambridge and his first year as Master of Selwyn. All royalties from the sale of the book have been kindly donated by Roger to Selwyn for Student Support. Copies are widely available from book stores and the Porters' Lodge.

Robert Lacey
(SE 1963)

Model Woman:
Eileen Ford and the
business of beauty
Harper, 16 June

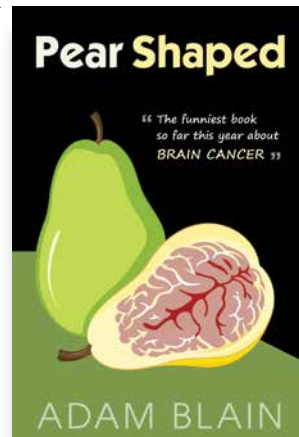


"A fascinating look at the woman who, perhaps more than anyone, shaped our ideas of what it means to be a sophisticated American beauty."

People

"Ford's status as a controversial, demanding figure isn't ignored in Lacey's portrait of one of the hardest working women in fashion. The juicy details of a tell-all are met with the nuance of a memoir in this portrait of the woman he recalls as the 'matriarch of modeling.'"

Hunter Harris,
New York Observer



Adam Blain
(SE 1989)

Pear Shaped:
The Funniest Book
So Far This Year About
Brain Cancer
CreateSpace Independent
Publishing Platform, 23 June

"This book is funny, moving and inspirational. I read some of it and had to get him on my radio show."

Christian O'Connell
Absolute Radio Breakfast
Show DJ

"No self pity, no wallowing, no Woo 'cures' (although he has plenty to say about the latter), just a hilarious journey through a set of circumstances Adam Blain and his family have found themselves in, unfortunately."

Richard Davenport-Hines
(SE 1972)

Universal Man:
The Seven lives of John
Maynard Keynes
William Collins, 15 March

"Succinct, lively and well-written biography ... Done with great panache, in a volume that will introduce Keynes and his strange world to a new generation of readers"

Evening Standard

"An amusing, elegant and provocative writer ... great fun. By focusing on Keynes as a private man and public figure rather than an academic economist, it is possible to see him as the last and greatest flowering of Edwardian Liberalism"

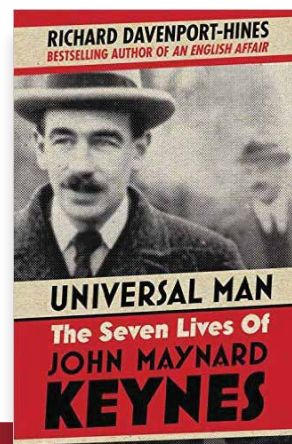
Dominic Sandbrook
Sunday Times

"A treat... We read endlessly about Keynes the economist. But he was so much more and this unputdownable book explores the man"

Independent

"Treating Keynes's lives as interesting and valuable for their own sake, and not just as a means to his economics, gives them extra vividness ... With a keen eye for telling detail and social connections, Davenport-Hines brilliantly conveys what one might call the peripheral atmospherics of Keynes's existence ... Done with grace and insight"

Robert Skidelsky,
Observer

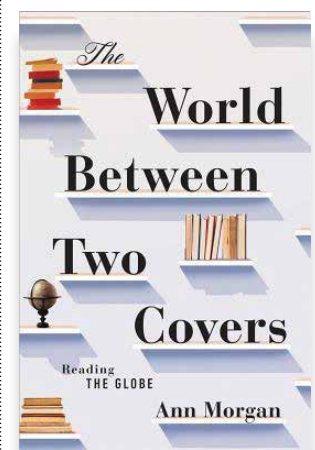


Ann Morgan
(SE 2000)

**The World Between
Two Covers**
– Reading the Globe
Liveright, 28 April

Only a writer like Morgan could make reading about reading so sublimely fascinating: over a year, she immerses herself in a book from every country on the globe, and shares the profound fruits of her pursuit.

Entertainment Weekly



In her lively, debut book, journalist and blogger Morgan, regretting that she has been 'a literary xenophobe,' recounts her project to spend a year reading one book, translated or written in English, from every country in the world... Morgan's intrepid literary project underscores the crucial importance of stretching the boundaries of one's aesthetic and intellectual worlds.

Kirkus Reviews