



DARWIN COLLEGE
CAMBRIDGE

SUMMER
2024

THE Darwinian



DARWIN
COLLEGE
1964 - 2024

60 years of Darwin life

Also inside:



Beau Roberts reveals why sand trays and visiting puppies are all part of promoting student wellbeing



DCSA Presidents from across the decades discuss the pressing issues of the day, from opening hours at the DarBar to keeping the punts afloat



Karen Knight talks to us about 40 years of seeing Darwinians through from admission to graduation

NEWS FOR THE DARWIN COLLEGE COMMUNITY

A Message from the Master

Dr Mike Rands

Celebrating 60 years of postgraduate education, learning and research



I write this message a few days after the most wonderful long weekend celebrating our 60th anniversary with alumni here at Darwin. It was very special to be able to host so many former students returning from as far afield as Australia, Brazil, China, India, New Zealand, Uganda and the United States as well as many from across Europe and a great turnout from Cambridge!

Our staff, Fellows and current students did a magnificent job of organising a wide range of activities, including displays and talks on the history of the College and our connections to the Darwin family, musical recitals, exhibits of Gwen Raverat's artwork and a panel discussion on solving global challenges. We also enjoyed garden treasure hunts, honey tasting, DCBC Boat Club Outings, a Family Formal Hall and not one but two Celebration Dinners.

One of the most delightful aspects of the weekend was the number of families who joined us. Many alumni, Fellows and staff brought children, grandchildren and in some cases their parents to visit Darwin. A highlight for them was the Family Formal Hall on Saturday, first suggested by Vice-Master Fiona Karet, at which our Catering Manager Ivan Higney and his brilliant team fed and entertained 140 guests, including around 40 under tens. An hour later we experienced a more typical Formal Hall, which was equally excellent - and all the better owing to the fine wines made possible thanks to a donation from one of our generous benefactors, Marc Feigen. Family Formals will now be a regular feature in the College Calendar, so do look out for them if you would like to participate.

It was a weekend full of happy memories, fascinating stories and many typically British rain showers, which failed to dampen our enthusiasm. Talking of fascinating stories, I really welcome the special contributions former DCSA Presidents have made to this edition of the *Darwinian* and in greater detail on our website (www.darwin.cam.ac.uk/60th/) On the one hand, these highlight how special and unique Darwin was when it was first established in the 1960s: a small, intimate College with poor plumbing and no heating. On the other hand, so many of the attributes described by early DCSA Presidents remain today: the informality and lack of hierarchy between students and Fellows; the inclusive, interdisciplinary and international community; the role students play in College decision-making, management and peer support; and the family-friendly nature of the College. All these features remain despite the growth in our student population from the original 12 to over 750 this year.

The accounts from DCSA Presidents also demonstrate just how much Darwin helps to shape our students' careers and lives, be it academically through multidisciplinary interactions with their contemporaries, College Fellows and former Masters, or personally – many met their future partners here in College. I'm glad to say the plumbing and heating have improved and we hope that the latter will soon be provided entirely from renewable sources, with water-source heat pumps delivering the energy we need for the College.



The Master enjoys a reunion lunch with the first cohort of Darwinians.
Credit: David Johnson

“...so many of the attributes described by early
DCSA Presidents remain today”

Valuing our professional staff

This issue of the *Darwinian* also highlights the important role our staff play in making Darwin so special. *A Day in the Life of the Porters' Lodge* highlights the shift patterns of our Head Porter of the last 20 years Derek Scott who, while he does not admit it in his interview, has said to me that a 3am start is good, because he can open the front doors for the steady stream of students returning to College after enjoying their night out in Cambridge. Our Porters play a vital part in College life. Welcoming new arrivals, acting as the public face of the College, responding to emergencies, handling uninvited visitors to DarBar, and observing the garden's rich diversity of wildlife are just a few aspects of their daily lives, and we are so fortunate to have such a dedicated and professional team.

Dedication and professionalism are in evidence across all our staff from catering to housekeeping, finance to development and alumni relations, maintenance to the Deanery. On page 8, you can read Karen Knight's story from joining the College as a junior assistant 40 years ago to managing the Deanery for over a decade. Karen and her team are another front line for all our students, providing key support for prospective postgraduates, for admissions and through to graduations with much activity in between. I'm often told by our graduands how grateful they are for the efficiency and kindness they have received from the Deanery team throughout their time at Darwin. Forty years of such dedication is a testament to Karen's commitment to the College and hopefully reflects well on the College as a place of work.

While some staff functions have been essential from the start, as the College has grown and the needs of the community have evolved, we have recruited new roles too. One recent appointment was our first ever Head of Student Wellbeing, Beau Roberts, a vital and wonderful addition to the team who offers professional mental health care and more general support for the welfare of our community. You can see Beau's creative approach to her role on page 4.

To support our growing alumni community and secure more support for Darwin we have recruited a new development and alumni relations team, Fiona Duffy (who joined us as Development Director last year), Lindsey Pavlov (Fundraising Manager), Hannah Milne (Alumni Relations

Associate) and Karina Malets (Research and Donor Relations Manager). They are full of energy and ideas to enhance our alumni engagement with the College – both for the benefit of current students and to maintain our appreciation of their contribution to making Darwin so special.

What next? A campaign for Darwin

I began this message highlighting our 60th anniversary alumni celebrations which will, of course, continue throughout the next 12 months in various ways. Please do join us if you can. I'd like to conclude by thanking everyone who has made a gift to the College in this year. A wonderful example of your commitment to the College was the success of our recent Giving Day during which over 300 people contributed a total of £74,000. We are deeply grateful to the generosity of so many alumni and also to our Fellows, 75% of whom also made gifts during the Giving Day.

To ensure we can deliver the priorities in the College Strategic Plan (www.darwin.cam.ac.uk/plan/) and build on the success of Darwin in helping to educate and inspire over 11,000 alumni in our first 60 years, we will be launching a major fundraising campaign later this year. This campaign will focus on three of our greatest needs:

1. Providing more support for students (studentships, hardship funding and wellbeing);
2. Improving our College estate (creating a unique multipurpose Garden Room and café under the Dining Hall and building a Pump House to harness heat from the river as a major component of achieving carbon neutrality by 2032); and
3. Acting on and promoting solutions to global challenges.

As we celebrate the achievements of our first 60 years, and the people who have enabled them, we are fortunate to have a global community of people whose lives have been shaped by Darwin to turn to, to help us shape the coming decades. We look forward to what they will bring, and to sharing the future of Darwin with you.

Beau Roberts

Managing Darwin's Mental Health

The College's first Head of Student Wellbeing discusses imposter syndrome, the power of play, and why everyone needs space to talk.



With a background in theatre, a degree in Philosophy and Drama, and a Master's in Drama Therapy, Beau had previously worked in schools, as well as within the NHS supporting adult mental health, and is convinced that Drama Therapy touches on "a part of human-ness" that can't be accessed by simple talking. Its creative elements provide space to process emotion in a way that is completely distinct from the way in which people live the rest of their lives. It also taps into a mischievous streak which enjoys playing with people's prejudices.

"I kind of like that people doubt it'll work," she says. "I think when I moved my sand tray up here there was even a level of doubt within Darwin of 'what have they hired, who is this?!' And I use the sand tray, I use all of this stuff, all the time, still now."

Employed for two days a week, Beau does not take on long-term counselling commitments, though she admits some have "snuck through". Instead she offers ad hoc wellbeing sessions to students struggling with any aspect of the non-academic side of life.

"If anybody needs any emotional assistance, any support, anything that the Deanery wouldn't deal with. So any issues with feelings, relationships, supervisors – difficult, tricky things – that's where I come in."

As the self-described "face for mental health within the College", Beau Roberts has a unique role. Appointed in 2022 as Darwin's first ever Head of Student Wellbeing, she takes undisguised pleasure in overturning Darwin's sense of itself as a temple to the cerebral, gleefully extolling the benefits to be gained from play, creativity, sand trays and cute animals.

And the response of students speaks for itself.

"Beau is doing an incredible job and is very empathetic and positive," reads one recent feedback form. "I think if more people knew about the impact such conversations can have on their daily lives, even more people would use them."

“Being in an institution this old and this important can make you feel a bit wobbly sometimes.”

Speaking to a stranger about their most personal problems doesn't come naturally to everyone, but Beau sees it as part of her responsibility to ensure that all students know she is there for them.

“I think because we have such huge cultural diversity, sometimes I'm much more visible to some students than others. So that has been part of my role I think, putting the word out there that actually it's ok, it's confidential, nobody will know. So that's one part of it, making sure that they have that space.”

As well as being the first port of call for Darwinians, Beau acts as a signpost to other services, directing students to the University counselling service and recommended therapists, as well as putting them in touch with the disabilities service for support with neurodiversity, ADHD or dyslexia. She also collaborates with student groups, from the DCSA to the May Ball committee, organising events or drop-in sessions, and making mental wellbeing a visible College concern.

Her role was introduced in the aftermath of the Covid pandemic, in a time when concern about poor mental health was rising throughout the University and more widely. Beau was among the first wellbeing specialists to be employed by a College, but the others have rapidly followed suit, with a network of collegiate wellbeing staff

now meeting regularly to compare notes.

“I think that we are all taking mental health more seriously, and we absolutely should be. I've been working in this field for 15 years now, mostly with children, and I think we were taking children's mental health much more seriously and neglecting the adults. And actually this gap, this group that we work with, is lovely because you still have the ability to change how people think about mental health.”

After two years in post, the thing which has shocked her most is the prevalence of imposter syndrome among students.

“That was really shocking to me. I actually went to the Dean in the first couple of weeks to ask if anybody can get in by accident. And he wholeheartedly explained that no, they can't, everyone's earned their place. And that's been really helpful, but when I first got here I didn't know, because of the level of doubt that people have. Being in an institution this old and this important can make you feel a bit wobbly sometimes.”

The sense of belonging provided by the collegiate set-up is an important factor in addressing this, and Beau is proud, when attending inter-collegiate sessions, of being able to share Darwin's approach.

“I enjoy being able to represent College in the wider University space, because we're doing a lot. And they do take it seriously here. When I first met Duncan (Needham, the Dean) and Wendy (Godfrey, HR Manager) I could see straightaway that they believed in this slightly wild idea that I had. And it was really energising, the thought that I might be able to create something really new within a really old institution.”

It may be new, but Beau's role has rapidly become central to the way Darwin operates. From an enormously successful visit from her ridiculously cuddly dog, to colouring sessions at the College's first Families Day last summer, she ensures that she is visible and known to the community at large. But it is in the privacy of her confidential sessions that the real magic happens.

“I do a lot of one-to-one work which is really really special, and highlights happen all the time – glimmers of absolute life-changing stuff. And it's not always about the academics; it's about things that people have been struggling with for a long time and then it will all come unravelling in this space and then we build it back together. And that's so powerful.”

A Day in the Life of the Porters' Lodge

The Porters' Lodge is the 24-hour hub of the College, the welcome committee and the fount of all knowledge. From answering questions and providing directions, to distributing post and responding to unexpected disasters, it's a unique and essential role. We went behind the scenes to find out what life is like in a job where no two days are the same.



Porter Bruce Margetts delivers post to the pigeonholes

"A 3am start is not unusual," says Derek Scott, Head Porter, who after 20 years has been a Darwin stalwart for generations of students.

"I'll get a briefing from the duty porter and then start working on my emails and have a cup of coffee with a biscuit."

Each shift is nine hours long, but the precise start and finish times vary both across the team and week to week.

"A typical day shift would start about 6am and a night about 8am," says Karl Zuppinger, who joined the team in 2022. Like Derek, he has a reliable solution to getting ready for the shift.

"Regardless of the time I start the first thing I always do is get a coffee. Who can function properly without one? Then it would be a handover from one of my colleagues. I then always like to take a walk around the College and make sure everything's as it should be."

Each shift will include a mix of the predictable and the unforeseen. There are emails to be kept on top of, phones to be answered, keys to be issued, first aid to be administered, flags to be hoisted and parcels to be distributed. Seasonal variety is introduced by the Punt Club.

"During the warmer months the punts keep us busy, especially on the weekend when there is a constant conveyor belt of people wanting to hire them," says Karl.

But there are daily (or nightly) doses of the unexpected too, from fire alarms to students locking themselves out, requests for bike repair and all too frequent floods.

"It's not uncommon to have to respond to an unexpected leak in the middle of the night," says Karl. "I've had to deal with Niagara Falls on more than one occasion!"

Porters have also been called upon to rescue capsized punters – and their phones – and to pose for selfies with students completing Cambridge-wide scavenger hunts. But it's the College's neighbours on the other side of the river who have caused the most unlikely call for assistance.

"Twice now we've had a cow on the first Island," recalls Derek. "They would not walk back over the bridge, and it caused much amusement to the staff and students. We had to guide them back over the bridge and stream, avoiding their calling cards – new boots were required once."

Taking advantage of the famed Darwin catering is a perk lost to those who predominantly work nights:

"I eat my meals at home either before I leave or when I return from work," says Michael Ball, whose usual working pattern is 8pm to 4.30am.

"Plenty of fruit and snacks, and a few cups of green tea, is my staple when working overnight," says Derek.

However, even for those working more sociable hours, the demands of the Lodge preclude a leisurely lunch break.

"Meal times are literally grabbing something quick at lunchtime," explains Karl. "Or if I'm working nights I'll eat something once the bar closes, usually a roll from the café, or during the winter I love a piping hot bowl of soup to warm me up."

"I've had to deal with Niagara Falls on more than one occasion!"

But the porters' domain doesn't end with the Lodge, as Derek points out.

"I am mostly office based, but as a fire safety officer I do like to walk around, and this includes checking the security of the outside properties."

This is also highlighted by Karl.

"We're never just tied down to the Lodge. When there is more than one of us on we're always doing regular patrols of the College and the properties off-site. We also have to attend fire alarms which can happen quite often, especially in September when the new students start to arrive."

Night shifts, while quieter, offer their own distinct appeal. Michael, who joined Darwin six years ago after working as a driver for City Link, and later for Newnham Bakery, was attracted by the stability of the role.

"I like interacting with the students and staff and trying to sort out any problems that may occur," he says. "I mainly work nights and I really enjoy the role of night porter."

The opportunity to see a different side of Darwin is clearly treasured, despite the difficulty of trying to catch up on sleep during bright summer days.

"The College is a very different place at night," in Derek's view. "The gardens are spectacular at first light, or with the first snow fall."

"Nothing beats hearing the birds singing at 4am," Karl agrees. "The wildlife I've encountered is amazing. I regularly see foxes, badgers, deer and owls, as well as the odd student staggering home from a wild night!"

While the beauty of the College grounds is cited by all the porters as a perk of the job, it's the connections with people that are clearly what make the hours worthwhile. For Derek, after two decades in the role, those links go well beyond the current community.

"I enjoy talking about the old times with both the senior Fellows and alumni."

Meeting new people and being their first port of call come high on the list of highlights for Karl, who previously worked as a Therapeutic Project Worker in a residential children's home.

"And we can't forget DarBar!" he points out. "I really enjoy seeing the students letting their hair down and having fun. My favourite nights to work are when we are hosting BOPS, especially Gaydar and Oktoberfest. Those are always great nights."

The ability to stay calm, to think quickly and to problem solve come up repeatedly as the skills required to be a good porter, as well as the need to be alert and observant to maintain the College's safety and security. Derek would add one more attribute.

"You have to be very discreet. Discretion is my middle name – except when my memoirs are released!"

The student journey: Interview with Karen Knight

For many people, a junior role at the beginning of their working lives is a brief line on the CV, long forgotten. But for Karen Knight, the Deanery Office Manager, it marked the start of a 40-year career at the centre of Darwin's relationship with its students. Other than a break to have her son, Finley, 18 years ago, she has been here ever since.



*Karen talked to **Laura Kenworthy** about how Darwin has managed to hold onto her for so long, and how, while the technology, student numbers and reputation of the College may have changed beyond recognition, its unique appeal remains unchanged.*

So, rolling back the years! When did you first start working at Darwin?

I started in December 1985, on the day the old Bursar, Hugh Price, and Penny got married! I was a junior assistant within the Deanery, which had two full-time staff, one junior and one senior.

How big was the College at the time, in terms of student numbers?

I looked back on the register for October 1985 and we had 130 new students, which considering we have 300-plus now is quite a small number. But that was a good thing because we didn't have the technology to be able to cope with more! When I first started I had a golf-ball typewriter, no computer, and a very small photocopier that wasn't very good. Anything which had to be mass produced like the termly list of students had to be duplicated on a Gestetner machine.

We used to have to type a stencil on the golf-ball typewriter, load/wrap it on the duplicator, add ink and turn the handle. After which you had to manually collate the 30 or 40 copies. That's how archaic it was when I started!

And so all communication with students would have been by post and over the phone?

Yes. All hand-typed letters, signed off individually by the Dean. I think it was about five years before we had the first computer in, and that was an object that didn't really do a lot. We used to have a manual tray system for keeping track of statistics. Every student had a card with different coloured tags on, grey tags for PhDs, yellow for MPhils, and you used to have to run your finger down and manually count all these tags to find out how many PhDs we had, in the sciences or doing whatever.

How would students have found out about the College? Has its reputation grown?

We used to have information booklets and prospectuses that we used to mail out, but there was nothing like there is today; no world wide web! Prospective students would come to open days and admissions were dealt with by the Board of Graduate Studies; now the Postgraduate Admissions Office.

Word of mouth has definitely got around, with children of previous students now members themselves. Darwin's reputation outside of Cambridge has grown enormously.

Darwin would have been 20 years old when you started. Did it feel very new?

“It’s nice to be part of that journey, the beginning and the end and everything in between.”

Yes, it’s much more established now; and what it stands for. In those days it was all still very new, and very small.

And did that feel noticeable in terms of interactions with the wider University? Did it feel like it was finding its feet, or was it well respected?

No, it’s always been well respected. Darwin is unique. For students, what it stands for, staff, Fellows, everything – it is just a unique College. I know the student body has grown, but it’s still small enough to be friendly and it’s always been close-knit.

You have a distinctive connection with the students, seeing them through their journey from admission all the way to graduation. Do they put a face to you, or are you just a person at the end of an email?

We try to meet them all at the Welcome Desk so they know a face, and have a grasp of the areas we cover. Then, unfortunately, we don’t often have a lot to do with them unless they have a specific requirement and need our assistance. Often, we don’t see them again till graduation. But it’s still nice to be part of that journey, the beginning and the end, and everything in between.

It must give your year a predictable framework?

The years are predictable, and definitely follow a pattern, but the days aren’t. You never know until you come in what you will be dealing with that day; from a medical problem, exam worries, bike accident etc. You never know what your day is going to bring, which keeps it interesting.

The thing about communications now is that they make things so much easier but there’s also that expectation of an instant response to everything. It must have been in some ways more peaceful when people knew that there was a built-in delay.

Yes, you didn’t have emails and that sort of thing, so there used to be a lot more footfall. They’d come and find us, and often

bring cakes or biscuits! When you only had 130 new students you tended to know them a bit better, individually. Email, I find, is a bit impersonal, and people expect a direct response more or less straight away, and you’re not always able to provide that. With the amount now received in the Deanery it is always a case of prioritising!

Are there any particular highlights or memories that stand out when you look back over the years?

Let me think... how many Masters have I known?! Sir Arnold (Bürgen) was Master when I first came, then Professor Geoffrey Lloyd, Willie Brown, Mary (Fowler) and now Mike (Rands). The same with the Deans really – Peter Gathercole was Dean when I first arrived, and for quite a naïve youngster it was quite a shock! He was absolutely amazing, I remember when Finley was born this massive parcel arrived at home and he’d sent me a huge box of bulbs to plant to remember Finley’s birth – they’re in the garden now; they flower every year.

I remember the first week he came back after one of his anthropology trips and not long after I had started, he came in and said “Do you like my shirt?” and I said “yees?” and he said “It reverses, it’s magnificent, look!” and he stood there and took his shirt off – “look, inside and out; amazing tribal printing” – and I sat there, a rather naïve young person, thinking “ok, I’m not sure I’m going to be staying here!” No, but he was wonderful. All the Deans have been brilliant, and so have the Masters.

Another highlight is when members return, often with their families, and they still remember you!

It’s amazing longevity – what is it that has kept you?

Before I came here I did two and a half years at Trinity Hall in a similar junior role. I think it’s just the student life and Darwin itself; everybody’s... nice! Overall, it’s a lovely place to work.

Sixty years of the DCSA

Students' voices have always been central to the operation of Darwin, with much of student life run directly by them. Presidents of the Darwin College Student Association from across the decades told us why they chose to represent the student body, and what happened next. Longer versions of these interviews can be found on the College website at www.darwin.cam.ac.uk/60th/



John Clarke

DCSA President 1966–67

When John Clarke became one of the first Darwin students in 1965, he had intended to take a break from Cambridge. Born in the city in 1942, he attended the Perse School on an academic scholarship, before completing his undergraduate studies at Christ's College. Feeling the time was right for a change of scene, he applied to both Oxford and Cambridge for his PhD.

"It's incredible how things work out sometimes," he says now. "It turned out that the acceptance date for Oxford was two weeks after that for Cambridge, so I would have to turn down Cambridge and hope Oxford would accept me. I decided that was too big a risk, so I stayed in Cambridge. That was the best possible decision I could ever have made. It was a great turning point in my life."

After the first year, John learned that Cambridge's first postgraduate College

was opening on Silver Street, not far from Free School Lane, where his lab was based.

"This really piqued my interest, so I went there to meet the Master, Frank Young. He asked me about my research and then he looked at me and said 'Well, would you like to join Darwin College?' I instantly accepted his offer."

John made the transition, becoming not only one of Darwin's first students but also the first President of the newly formed Darwin College Student Association (DCSA).

"I lived in College for the entire two and a half years in this wonderful room in the Old Granary. Outside there was a balcony overlooking the Mill Pond. Darwin had a plentiful supply of punts, and I remember punting along the River Cam many times. It was just a great life."

The lack of hierarchy between the students and Fellows made for a significant change after the 500-year-old traditions of Christ's.

"One of the great benefits was that most nights I would have dinner in College. And at the time, I have a feeling there were more Fellows than research students. So we would enjoy our excellent dinner and wine and chat about all kinds of different things."

John's time at Darwin saw his development of the SLUG, a voltmeter significantly more sensitive than its predecessors.

"It was a great turning point in my life."

"After I moved to Darwin, I published a paper – my first – on this voltmeter that attracted a great deal of interest. SLUG was interpreted as 'Superconducting Low-inductance Undulatory Galvanometer'. I spent the remainder of my time at the Mond and Darwin developing the SLUG, which eventually led to the thin film Superconducting Quantum Interference Device (SQUID)."

John took up a postdoctoral position at the University of California, Berkeley in 1968, becoming an Assistant Professor in 1969. He remains there today as a Professor of the Graduate School.

"During my career I've developed many different applications involving SQUIDs. I've worked on geophysics, developing a new technique to look for minerals under the surface of the ground by pulsing the ground with a large magnetic field. I became very involved in astrophysics projects because it turns out we could make very sensitive devices for looking at stars. Something I've always been really happy about is the fact that I could take the basic idea of the SQUID and apply it to many very many fields."

While his enormously distinguished career has largely taken place on the far side of the Atlantic, John still credits his time at Darwin with setting it in motion. "Darwin had a huge impact on my life."



Bill Shea DCSA President 1967–68

As a Roman Catholic priest, a Canadian, and a PhD student at Trinity College, Bill Shea already had a firm set of identities and affiliations when he was invited to become one of the first 12 Darwin students in 1964. But 60 years on, 'Darwinian' is still key to how he sees himself.

"I've always taken a keen interest in something as serious as wine."

"It was marvellous, absolutely delightful," he recalls now. "All the colleagues had been chosen by one of the new Fellows, so it was not at random. There was a great feeling of enthusiasm, and a small group dedicated to making it work."

Fellows and students ate together daily, fed by an "excellent chef" who still looms large in Bill's memory, while he also remembers being invited by his contemporary Jack Goodison to be part of the fledgling Meals and Wine Committee.

"I've always taken a keen interest in something as serious as wine."

The size of the community also ensured personal attention in other aspects of collegiate life.

"John Oates was deputy director of the library, and every few months he'd say to me 'Bill, I've found a book I think you'd be interested in.'"

With a riverside room in the newly converted Old Granary, Bill relished both Darwin's physical site and the connections he made across the new College.

"One of the greatest human beings I've ever met was Arnold Burgen (pharmacologist and later Master of Darwin). He was my mentor, guide and inspiration. The first Master, Frank Young, was a wonderful person too – it was a great privilege to have known these two."

Darwin shaped Bill's life in more ways than one. Having left the priesthood following a gradual realisation that the life was no longer a natural fit with his view of the world, he found himself introduced by Donald West, Fellow in Criminology, to "a charming young woman from Switzerland," Evelyn Fischer.

After inviting her to Darwin for lunch he "thought she was marvellous, so I married her. We're still married, and now have five children and 12 grandchildren."

Bill has had a distinguished career as a Professor of the History and Philosophy of Science, holding academic positions in both Canada and Europe and publishing widely. Having spent most of his post-Darwin life in Switzerland, it's been a long time since he was a regular visitor to Cambridge. But, he says:

"Speaking to you makes me feel that I'm not a complete ghost! That if I came back to Cambridge they might not say 'who is this?'"

Haste ye back, Bill. You're welcome any time.

David Piper DCSA President 1968–69

The founding of Darwin College, during David Piper's undergraduate degree in Geology at St Catharine's College, passed him by at the time.

"I don't recall anything," he says now. "It was founded in the summer at the end of my first year, when I was incommunicado in the field on the Cambridge Spitsbergen Expedition."

"What I most appreciated at Darwin was the close interaction between Fellows and students,"

However, having contemplated a move to a different university for his PhD, David was instead persuaded to stay at Cambridge and transfer to Darwin in 1966, becoming the College's first geologist. Part of the allure was the Department's offer to send him to California for a year at the Scripps Institution of Oceanography, to learn about the emerging field of marine geology.

"What I most appreciated at Darwin was the close interaction between Fellows and students," he remembers. "I was used to this in my Department, where fieldwork helped bring us together, but I enjoyed the stimulus of College Fellows from a wide range of disciplines. In my third year, as the College became more international, my own experience as an international student in America led me to seek out and help the international students."

One of these was Georgia Pe, who had come to Cambridge on a scholarship from the Greek government to study for a PhD in Mineralogy and Petrology.

"As an international student who had never been outside of Greece before, everything was new," Georgia recalls. "So



it really did not sink in for some time that Darwin itself was new. All I knew was that Cambridge had a good name. I chose Darwin College because it was the only College that accepted both women and men, which mirrored my entire previous educational experience."

The choice of College proved life-changing for both of them, as the couple have now been married over 50 years.

As DCSA President, David benefited from the sense that students' perspectives were valued as a contribution to Darwin life.

"I learned so much from working with the Master, Frank Young. The feeling that all of us in the College were in a way equal was memorable. I was very conscious that we were doing things differently and felt privileged to be part of Darwin College and to have a leadership role among the students. Going back to hierarchy and tradition as a Research Fellow of Jesus College was a bit of a shock."

After moving on to Jesus, David retained a close connection to Darwin through Georgia, who was completing her PhD with the added pressure of a time-limited scholarship.

"I knew I had to finish completely in three years because my scholarship would run out. I felt I did not have time for extensive extra-curricular activities. I had friends in College, but most of my time was spent in the Department of Mineralogy and Petrology."

Georgia returned to Greece as a Lecturer at the University of Patras in 1972, while David moved to Canada. Through creative use of summer lab visits, conferences, sabbaticals and maternity leave, they kept together despite full-time jobs on different continents. In 1980, Georgia relocated to Canada, where both enjoyed long and successful academic careers.

Georgia and David agree that the intellectual, international and gender diversity of Darwin at that time was unique in Cambridge. Not only, by chance, did it bring them together, but it also had an enormous impact on their personal development and future careers.



Alison Yarrington
DCSA President 1974–75

When Alison Yarrington was offered a place at Cambridge to complete a PhD in History of Art, her criteria for choosing a College all added up to one option.

"I didn't want to go to a single sex College, and that was important to me having been at Reading University before Cambridge. There were comparatively few places for women in mixed Colleges in the early 70s, and when I looked at the intake Darwin came top. Also, I was very attracted to joining a graduate College – it's something I thought would be very exciting, particularly as it was newly established."

Darwin's inclusive, interdisciplinary nature also served to confirm that she had made the right choice.

"...freezing cold in the winter – I remember sleeping in a hat sometimes!"

"What I was really drawn to was the idea of being with other researchers from a wide range of disciplines; and that the College was an international community, in its outlook and membership, opening up a window on the world."

The first woman to serve as DCSA President, Alison lived in the Old Granary, which she remembers as being a delightful place, but often "freezing cold in the winter – I remember sleeping in a hat sometimes!"

She has fond recollections of her weekly meetings with the Master, Frank Young,

"He always took a keen interest in the DCSA and any issues we might have that he could help with. We often ended up talking about A.E. Houseman and *The Shropshire Lad*, poems which he enjoyed. He was and his wife Ruth Young were lovely and always around a lot; it was a sense of everyone being on your side that he did so much to foster."

As part of the DCSA, Alison worked to enhance the support Darwin offered to students and members with young children.

"There were many with families and so creating a friendly and welcoming environment in College was essential; one small but significant indicator of this I think was always having highchairs available in the Dining Hall."

She also recalls initiatives to encourage students to share their research in an informal context, the precursor to this year's newly revived Chalk Talks.

"We held some informal lunches where we brought sandwiches and talked for five, ten minutes about our research and what we were doing. Everyone wanted to find out more about each other's – often surprisingly similar – research questions and methodologies, always fascinating."

Now Professor Emerita in Art History at Loughborough University, where she was formerly Dean of the School of the Arts, English and Drama, Alison has held senior posts at the universities of Leicester, Hull, and Glasgow, and is a Fellow of the Royal Society of Edinburgh. The welcome she felt at Darwin, and the security which came from knowing that staff, Fellows and fellow students valued each other and their contributions, is something she has tried to replicate throughout her own academic career.

"It was always interesting, it was stimulating, and it was fun – a very happy time."



Steve Zan DCSA President 1988–89

When Steve Zan decided to start a tennis club in his first week at Darwin, he found himself at the Societies Fair sitting next to a fellow PhD student, Della Wilkinson, who was beginning a netball club.

"I didn't know what netball was, so she tried to explain it to me over beer," he recalls.

Now with over 30 years of marriage behind them, Steve and Della live in Ottawa, near another British DCSA member from their late 1980s cohort. "He claims I recruited him!" Steve laughs, of the unlikely Canadian conversion of much of the team.

Having already begun a career in research, following his undergraduate degree at the University of Toronto, Steve completed his PhD in Aeronautical Engineering in just three years.

"I had three years of funding from my employer, so I couldn't really push it much beyond that," he says. "They were paying me some salary to go away for three years and get a PhD, but the focus wasn't specified. I ended up with some funding from the UK – from what was then known as the Royal Aircraft Establishment, now DSTL (Defence Science Technology Labs). So they actually funded the project."

Steve's research looked at the behaviour of aircraft wings under non-ideal conditions of flight, when they deviate from standard flying conditions. In the Engineering department's Markham tunnel, he tested a wide variety of wings, looking at their motion and vibration in unsteady

After completing his studies, Steve returned to Canada and his research role at the National Research Council of Canada, where he progressed to team lead and then to Director of Aerodynamics, a position he held for 12 years.

"I was running a national lab with about 65 people, 30 of whom were PhDs, and then 35 technicians and a whole suite of facilities for supporting aircraft development in Canada."

His career involved significant international travel, and he made a point of reconnecting with Darwinians around the world – both lifelong friends and those he hadn't seen in decades.

That struck me as not the kind of thinking that many places have. We'll put this here because in 100 years, or less, it will pay off for us."

"It became easier to find people with the internet," he points out. "I would ring people up I hadn't seen for 20 years, or email and say 'I'm going to be in Frankfurt next week, I think you're still living there, let's meet for dinner one night.' It was great to catch up with people that way."

Steve has been a frequent visitor to Darwin over the years and keeps up with changes to the College and its site. He remembers being impressed by the way that, from the outset, Darwin had planned for its future growth

"The Dining Hall had a big glass window onto a brick wall. I remember first getting

People

there and saying 'who would put a beautiful big window onto a brick wall?' And someone said 'Well, that's for the College expansion. Eventually it will go down there (to Newnham Terrace) – it may be 100 years but they will go there. That struck me as not the kind of thinking that many places have. We'll put this here because in 100 years, or less, it will pay off for us.'



Gaafar Saleh DCSA President 1993–94

After completing an MPhil in Computer Speech and Language Processing, Gaafar Saleh went on to pursue a PhD in Machine Learning and Artificial Intelligence. But while that may sound the most up-to-the-minute of research interests, Gaafar's Darwin experience took place in the 1990s.

"That research group were pioneers," he says now. "It's lovely now to see the resurgence of AI. The fundamentals haven't changed – what's changed is the availability of computing power."

After finishing his PhD, Gaafar worked in commercial research and development, before establishing a career in investment banking. He is currently the Head of Quantitative Strategy at global financial services firm Finalto.

Born in Chester to Sudanese parents, Gaafar had an international childhood, before studying as an undergraduate at

"It was a very rich environment, intellectually and culturally."

Birmingham University. He then selected Darwin for its diverse postgraduate population.

"I liked the fact that it had so many different students from all walks of life, all researching different things. It was a very rich environment, intellectually and culturally."

Gaafar threw himself into Darwin life, getting involved in sport, the May Ball committee and the Drama Society.

"I remember we performed *A Day in the Life* and I did the lighting and effects. I had to know the whole script to make sure the effects synched up with what people were saying."

Serving as DCSA President in 1993–94, Gaafar recalls the Porters' Lodge as a particular success of his leadership.

"The Porters' Lodge wasn't always staffed, so we got student volunteers to staff it on Sundays, sorting the post and being in attendance. I'm very proud of that, because it meant that there was always someone for people to talk to."

He also put in place a system of shared responsibility for the punts, asking students to pay a £10 deposit for the upkeep of the boathouse, in exchange for which they could use them whenever they chose.

"It allowed everyone to access the punts out of hours, and meant that we were all collectively responsible for them."

Other highlights of Gaafar's Darwin memories include the Formal Halls and, more sensationally, the contribution of Archbishop Desmond Tutu to the Darwin College Lecture Series.

"It just doesn't feel like I was at Cambridge 30 years ago," he says. "And that's a testament to the environment of Darwin and the magic of Cambridge."



Jessica Beckett DCSA President 2004–05

When Jessica Beckett was offered a place at Cambridge as a Gates Cambridge scholar, she was clear where she wanted to be.

"I was a mature student, doing a PhD in Archaeology – I wanted to be around likeminded people. I didn't want to be surrounded by 18-year-olds."

"I liked its more intimate setting, and felt much more comfortable there than in the larger Colleges."

It was while working on a neolithic dig in the Burren, in Ireland's County Clare, during her Master's degree, that the idea of Cambridge was first planted for Jessica. The project's director who, like her, had been educated at state universities in California, had moved on to an academic career at Cambridge and suggested that she apply for a PhD.

"It opened up a series of possibilities," she says now.

Darwin's older student profile wasn't the College's only attraction.

"Even before I applied, I remember walking over the Silver Street bridge to Darwin and thinking 'this is nice'. I liked its more intimate setting, and felt much more comfortable there than in the larger Colleges."

Having steered clear of "that side of things" throughout high school and her previous university experiences, Jessica decided "almost immediately" to give student governance a try at Darwin.

"The position of International Rep was coming up, and that seemed a good way to start, with something a bit lighter – and I was international!"

A stint as College Council Rep followed the role of International Rep, before Jessica ran for DCSA President, enjoying the opportunity to represent Darwin's students.

She remembers her priorities now as "cleaning up the bike shed" but says there was also a definite emphasis on events and entertainment, a focus which might have had something to do with the fact that her now husband, fellow Darwinian Massimiliano Molinari, was serving as ENTS Officer.

The couple met living in Gwen Raverat House and married while at Darwin. Their daughter, now 17, was born while Massimiliano was in the final year of his PhD in Engineering.

"In fact, we had a baby shower in the DarBar!" Jessica remembers. "She was very much a baby Darwinian."



Cherry Muijsson DCSA President 2012–13

Moving to Cambridge from the Netherlands after completing her undergraduate and Master's degrees at the University of Utrecht was a pivotal decision for Cherry Muijsson. The welcoming and diverse community at Darwin instantly made her feel at home, and the connections she formed there sparked her passion for integrating nature conservation into the world of economics and finance.

"Darwin is the home for a diverse group of people, which really enables those important interdisciplinary conversations. The setting feels a little bit more informal than what you see in other Colleges, with students and Fellows being part of the same community, which I always really appreciated."

Applying to Cambridge from overseas, choosing a College was not high on Cherry Muijsson's list of priorities.

"I didn't have a College preference on my application, so I was very fortunate that I was allocated to Darwin," she says now. "I was honestly just so focused on getting in for the PhD that I didn't think about it. But I've been so lucky, because I would have selected Darwin as a College, just from the experience I've had."

After taking on the role of Admiral of the Punts in her first year, Cherry found Darwin's approach to student

I'm still sort of pinching myself – was that actually a dream, to be able to live like that, in a place with so much history?"

engagement in College life so appealing that she ran successfully for DCSA President.

"It wasn't something that I was naturally considering – in fact I was never really that active in student life before coming to Cambridge. But the Darwin community struck me as something so special that I really wanted to contribute to."

Cherry's PhD in Economics focused on macroeconomics and finance, and she now works as an investor at Blackrock, where she applies her commitment to a sustainable future to financial services.

"I'm very passionate about nature conservation, and I've been working on how we can bring nature to the finance world, how can we unlock private capital for nature-related opportunities and help fund the critical conservation work required to reverse biodiversity loss."

She returns regularly to Darwin, and particularly treasures her recollections of the year she spent living in the President's accommodation, in the Old Granary.

"It was gorgeous, and some of the best memories are when we hosted our committee events on the Granary balcony watching the punts go by. I always loved doing that. Looking back on that I'm still sort of pinching myself – was that actually a dream, to be able to live like that, in a place with so much history?"



Credit: David Johnson

Thank you to everyone who helped us turn 60 in style!

Alumni from throughout Darwin's history returned to the College over the weekend of 6th-8th July for a joyful celebration of our first 60 years and to look ahead to our future.

Over 400 people engaged with the weekend in some form, with 140 attendees at Saturday evening's sold-out Family-friendly Formal, giving the children of Darwinians a taste of Cambridge tradition. In an extraordinary feat of efficiency, the catering team had no sooner completed the two-course sitting, than they were welcoming a further 120 diners for a three-course Celebration Dinner, as the sounds of the children's gong-ringing still echoed in the air.

Friday night also saw a packed Dining Hall for dinner, preceded by fizz and canapés on the lawn accompanied by a string quartet. Though torrential rain did its best to drown out the

music, while guests huddled under a series of hastily erected gazebos, the Master valiantly spoke to the assembled umbrellas, introducing outgoing DCSA President Niamh Hartley, who unveiled a board to ensure her predecessors and successors are listed for posterity.

The weekend began with a celebration of Darwin's earliest cohorts, with alumni who attended the College between 1964 and 1974 joining the Master and the Development Director for lunch and a chance to pore over photos from the archive.

A varied programme throughout the weekend offered treasure hunts, garden games, colouring competitions and watercolour workshops; tours of the gardens and buildings from horticultural, ornithological, architectural and historical perspectives; a chance to consider the ways in which research and higher education can respond to global challenges from climate change to health in a fascinatingly engaging panel discussion; and musical contributions from the College choir as well as a viola and harpsichord recital.

From the seemingly limitless rotation of delicious meals, to the beautifully prepared floral displays, the clean-up effort required to ensure that the College continued to look presentable throughout the weekend, the exhibitions and histories researched and prepared, and the time and effort volunteered by staff, Fellows and students to welcome and entertain visitors, it was a truly collective effort on the part of the College community. Congratulations to the Development team for masterminding such a celebratory and multifaceted birthday party, and thank you to everyone who made it possible, as well as all those who braved the weather to come and be part of it.



Alumni from 1964-1974 kicked off a weekend of celebration

Families for Nature: Pioneers for a Regenerative Economy

Researchers, entrepreneurs and investors came together at Darwin this spring to celebrate the launch of a new foundation with deep Darwinian roots, created to further the global challenges of conservation and climate repair.

Developed by Darwin alumnus **Michael Blank** (MPhil Economics, 2004-6) in collaboration with his business partner **Manuel Linder**, Families for Nature aims to fund pioneering initiatives with a transformative effect.

Already, the foundation is funding the PhD research of Darwin student **Jacob Pantling**, who is investigating the possibility of refreezing the Arctic. Jacob presented his work alongside Darwin alumnus and Director of the Centre for Climate Repair **Professor Shaun Fitzgerald**, as part of a day which demonstrated the world-leading research taking place in Cambridge, and the impact of financial support to meaningful advancement.

The day began at the David Attenborough Building where the Master of Darwin, Dr Mike Rands, explained the role of the Cambridge Conservation Initiative (CCI), of which he was the first Director. Participants then moved on to Darwin College for an afternoon of sharing ideas, research and inspiration, before sitting down to dinner together.

"We're facing a climate crisis, a biodiversity crisis," said Dr Rands. "But what for me has been so exciting today is that we're actually talking about solutions to address that."

Charity Ball celebrates Darwin student's impact on education

Completing a PhD while running a charity on another continent is no mean achievement. So it was wonderful to be able to honour that juggling act, as Darwin hosted a charity ball to support the work of Tusome Africa.

Founded by current Darwin PhD student in Education **Bea Simpson**, the charity provides crucial support to allow children in Uganda to access education.

The black tie event was presided over by Darwin Vice-Master and Professor of Education **Professor Sara Baker**. It included a Ugandan-inspired dinner in the Darwin Dining Hall, as well as music from student societies and the opportunity to celebrate both Uganda's cultural richness and the transformative power of education.

Last year, Bea talked to the *Darwinian* about how her studies at Cambridge and the creation of the charity were two sides of the same coin. The ball provided an opportunity to reflect on both achievements, while ensuring the impact of Tusome continues to grow.

"I am so honoured and proud to have held it here at Darwin where my education journey and the search for solutions to educational challenges started – Tusome Africa is very much a part of my Cambridge journey, and it was such a pleasure to bring everything I have loved about being Darwinian together."





Darwin student wins Sykes Prize for creative writing

Congratulations to Darwin College PhD student in English, **Louis Cameron**, who has won Robinson College's Sykes Prize 2024. Contributors were asked to submit a piece of creative writing which engaged with the idea of humanity's place in nature, in response to an 1824 quotation by Giacomo Leopardi:

Did you perhaps imagine that the world was made for your benefit? Let me tell you that in my handiworks, in my arrangements and my operations, except very seldom, I always had and always have a mind to things quite other than the happiness of men or their unhappiness.

Louis's story, *Alfred Popkin Takes It All The Way To The Top*, used the prompt to reimagine the suffering of Job, as a bereaved father struggles through increasingly farcical levels of bureaucracy to understand why God has seen fit to inflict such pain on him.

"I am honoured to have been selected for the prize, and very grateful to the judges for their time and consideration. It's not often that I write fiction, and to have any of my work received well is extremely encouraging."

Darwin College Lecture Series: Revolution

The 39th Darwin College Lecture Series encompassed genetics and biochemistry; history and history of art; philosophy and political theory; astrophysics and the structure of our brains, exploring political, scientific and cultural revolutions, as well as revolutions in thought. Beginning in mid-January, it filled the Lady Mitchell Hall week after week throughout Lent Term, making full use of spillover sites with live-streamed coverage, and attracting total audiences of 4,500 people. A further 200,000 people have so far viewed the lectures online.

Thank you to our speakers, **Professor Sir Simon Schama**, **Professor Matthew Cobb**, **Professor Le Ypi**, **Dr Iain McGilchrist**, **Professor Didier Queloz**, **Professor Frances Spalding**, **Professor Nick Lane** and **Ms Tania Branigan**, for an extraordinarily varied and compelling sequence of talks. Our thanks also to the organisers, **Dr John Nilsson-Wright** and **Dr Aylwyn Scally**, and the College Resistrar **Janet Gibson**, as well as to **Ivan Higney** and the Darwin catering team for overseeing eight weekly celebratory dinners.

We look forward to welcoming audiences back to Darwin next January for the 40th annual Darwin College Lecture Series, which will explore the theme of Codes.

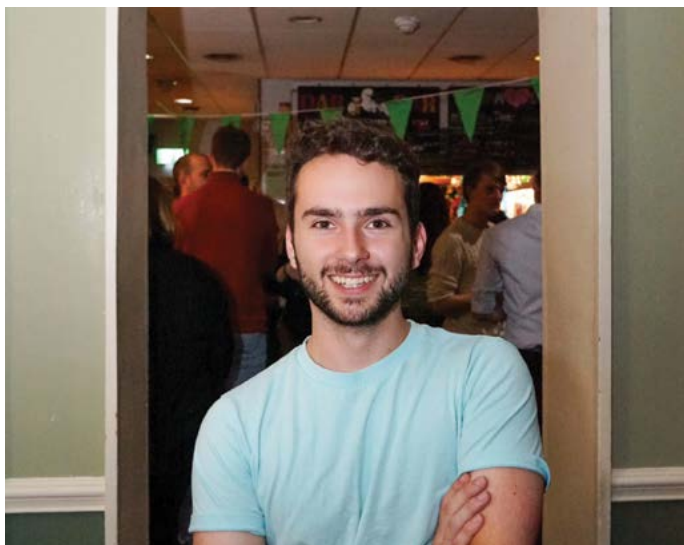
Joshua Bickler elected as DCSA President

Following his undergraduate experience in his hometown of Auckland, New Zealand, **Joshua Bickler** felt the time was right to venture a little further afield for his postgraduate studies. Darwin couldn't be much further from the familiar, but since he arrived here for his MPhil in 2022, it has felt like a home from home.

"I love New Zealand, but I wanted to get out and explore," says the newly elected DCSA President for 2024-25. "Arriving here, even though I'd done my research, was so different to what I was expecting, but Darwin's a very special place."

Having completed his MPhil in Scientific Computing, Joshua began a PhD in Physics in 2023, researching through computational and numerical modelling the potential instabilities of fusion power devices.

"It's a future green energy source that we really want to work," he explains. "My research is about predicting how future devices will deal with the instabilities that will inevitably form." This commitment to a sustainable future was reflected early in his Darwin career, when he became DCSA Green Officer, and is central to his ambitions as President.



"I'm passionate about sustainability and really want to use the opportunity to promote green initiatives throughout the College."

Joshua is also eager to engage PhD students further in College life, improving communications and events, and working with the College to provide clearer information on accommodation, as well as more consistent WiFi coverage.

"It feels like Darwin is unusually willing to listen to its students," he says. "It's a significant commitment, but I'm now at the end of the first year of my PhD, I've settled into the country and the College, and it feels like the right time to do it. It's a big commitment but it's worth it."

Putting music at the centre of primary teaching

Congratulations to newly qualified Darwin PGCE student **Cressida McKay-Frith**, who has been awarded the Charles Fox Prize 2024 by the Faculty of Education.

The award recognises the perception of her supervisors that "from the first day of the PGCE course, Cressida has impressed us with her strong desire to be the best teacher she can be", as well as her child-centred approach to teaching, her organisation, dedication and commitment.

Cressida studied at the Royal Northern College of Music before spending four years in Hong Kong where she worked as a music teacher. Her Cambridge training qualifies her to teach as an Early Years Primary Teacher, a role in which she plans to incorporate as much music as possible into the daily lives of young children. To that end she has successfully achieved the Cecilia Vajda Memorial scholarship, enabling her to attend the prestigious British Kodály Academy Summer School this summer.



Cressida has accepted a permanent position as Year 2 teacher at the University of Cambridge Primary School.

"School starts every morning with 20 minutes of singing, so it feels like the right fit!" she says.

While her academic base in Cambridge has been at the Faculty of Education, with school placements often taking her away for 12 hours a day, Darwin has been a welcome retreat.

"I knew I wanted a postgraduate College, as I'd been working for a few years so was a bit older," Cressida recalls. "Applying to Darwin was the best decision I've ever made. The PGCE is so full on, so having such a warm family feeling to return to every evening was wonderful."

University of Bristol recognises contribution to physics of Rosemary Fowler

Darwin was honoured to play host on Sunday 14th July to the presentation of the degree of Doctor of Science *honoris causa* from the University of Bristol to Rosemary Fowler.

The mother of former Darwin Master Professor Mary Fowler, Rosemary graduated with first-class honours after her undergraduate degree in Physics in 1947, and immediately began working towards a PhD. Her identification, the following year, of the kaon, a particle which decayed to three pions rather than two, opened a new era of research, leading to Nobel prizes and critical discoveries on both sides of the Atlantic. Rosemary, however, stepped away from her studies to raise her family.

"There is no doubt that Rosemary had the intellectual rigour and curiosity to pursue an illustrious research career in Physics; perhaps, like her husband and fellow researcher



Professor Sir Paul Nurse meets Rosemary and Mary Fowler. Credit David Johnson

Peter, continuing to develop techniques for measuring and understanding cosmic rays," said the geneticist and Nobel laureate Professor Sir Paul Nurse, who in his capacity as Chancellor of the University of Bristol presented Rosemary with her degree.

"In such a scenario, I have no doubt that the University of Bristol alumni team here today would have spent decades writing and celebrating her remarkable discovery in 1948, and all that she subsequently achieved.

"Instead, Rosemary and Peter made a pragmatic choice following their marriage in 1949. In a country with few working women, housing shortages, ongoing food rationing and hoping for a family, Rosemary left the University of Bristol without completing her PhD, and supported Peter's work from home whilst raising their three daughters. Until now, we at the University of Bristol have not celebrated Rosemary's work as a physicist as we should have."

In a ceremony held in Cambridge rather than Bristol to reduce the travel imposed on the now 97-year-old Rosemary, representatives of the University and of Darwin joined a multi-generational gathering of her children, grandchildren and great-grandchildren. Her daughter, Mary, addressed the group on her behalf, recalling her wartime education in Bath, where her naval engineer father was posted by the Admiralty. In 1943 she became the only girl from her school to go to university, travelling from Bath to Bristol each day by multiple buses.

"As a child I wanted to be a physicist because it seemed to be exciting, such fun," Mary remembered. "With both parents being physicists, physics and research were kitchen table chat! Rosemary influenced us all - we were all keen on science and maths. There was no thought that girls couldn't do it."

Rosemary's scientific contribution has come to new light thanks to the work of physicist and science writer Suzie Sheehy, who shared her story through an essay in *Nature* earlier this year.

"We are enormously grateful to her for reintroducing us to Rosemary and making today possible," said Sir Paul Nurse.

"Rosemary's work in particle discovery in the 1940s, as a physicist at Bristol, paved the way for critical discoveries that continue to shape the work of today's physicists, and our understanding of the universe."



RIBA Award for John Bradfield Court

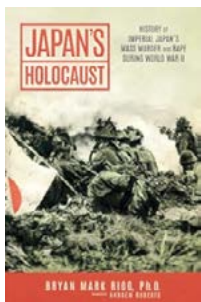
Darwin's John Bradfield Court, designed by Allies and Morrison, has won a RIBA East Award 2024 for its regional importance as a piece of architecture.

The citation from the Awards Jury describes why the building and court has been such an effective addition to the site.

"Nestled on the banks of the River Cam, Darwin College, Cambridge is a unique assembly of 18th and 19th century domestic architecture, distinguished 20th century collegiate buildings, and riverside landscape.

John Bradfield Court is the most recent addition to this rich collage of buildings and layering of historical periods. It defines the edge of the College closest to the city, creating a new College entrance and adding the distinctive sculptural form of a new multipurpose space."

Publications and awards



Darwin alumnus and military historian **Bryan Rigg** (PhD History 1996) has received extensive coverage, including positive reviews in the *Wall Street Journal*, for his “unflinching” examination of atrocities committed by the Japanese army in the name of the Emperor. Not for the fainthearted, the WSJ warns that: “readers should gird themselves for horrors they’ve either ignored or never imagined,”

in *Japan's Holocaust: History of Imperial Japan's Mass Murder and Rape During World War II*, but praises an “encyclopaedic” account of an under-examined history.



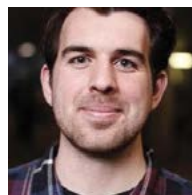
Credit Lawrence Cawley/BBC

When Darwin Fellow in Education **Dr Annouchka Bayley** was just 17, a chance discovery in the secondhand bookshop where she worked set in motion a lifelong fascination.

The book introduced her to the centuries-old story of Elizabeth Bathory, a Hungarian noblewoman known as the Blood Countess owing to her bloodthirsty reputation as history's most prolific female serial killer. But from the first, something about the story didn't add up, Annouchka told the BBC's Laurence Cawley.

"While I was reading it I found myself thinking, 'hang on a minute, I don't buy any of this, this is a stitch up job,'" she said.

Nearly a quarter of a century later, Annouchka's novel *The Blood Countess* presents an alternative reading of history, positioning Bathory as a subversive feminist, publisher and educator.



Rory Hills, Darwin PhD student in Pharmacology, has authored a report published in *Nature Nanotechnology*, demonstrating a new approach to vaccine technology which protects against future disease outbreaks before the pathogen even emerges.

"What our lab wants to do - what I want to do - is develop vaccines before the next pandemic, and this paper is a step towards that goal," he says.

The new vaccine works by training the body's immune system to recognise specific regions of eight different coronaviruses, including SARS-CoV-1 and SARS-CoV-2, as well as variants identified in animal populations which have yet to make the leap to humans.

What makes the new approach so potentially powerful is that it trains the immune system to attack specific virus regions which appear in many related coronaviruses, providing protection against variants not represented in the vaccine – including ones that haven't even been identified yet.



Congratulations to **Professor Chris Sandbrook**, Darwin Fellow, Professor of Conservation and Society, and Director of the MPhil in Conservation Leadership, who has been listed as one of the most influential academics working on environmental issues by The ENDS Report.

The Power List 2024 names the 100 UK environmental professionals who have made the greatest impact in the past two years, including the 10 academics shaping the science.



Congratulations to Darwin Catering Manager **Ivan Higney**, who has received an award for sustainability from the British Culinary Federation.

The federation's 17th Annual Dinner and Awards Evening recognised talent and achievement across the hospitality industry.

Phil Waterson: hanging up his tools



"It's been lovely working with the students over the years trying to make their life more comfortable whilst they are at Darwin."

When **Phil Waterson** arrived at Darwin as Clerk of Works 26 years ago, he wasn't 100% convinced the College was ready for him.

"When I was shown my office," he recalls, "it was piled floor to ceiling with equipment and supplies – lightbulbs etc. I had to make a tunnel to my desk. So the first thing I did was clear all of that out to a cupboard, so I actually had space to work."

If Darwin wasn't fully prepared for Phil's arrival, his departure will be an even greater adjustment. Over nearly three decades, he has overseen the day-to-day maintenance of the College buildings, as well as managing the redevelopment of buildings from the Newnham Terrace houses to the Causewayside flats, and the building of Bradfield Court.

"We've bought and sold a lot of properties, gradually consolidating the site by bringing everything closer together. When I started we had some accommodation behind the police station by Parker's Piece and Oxford Road – we couldn't check what was going on in the buildings and housekeeping

couldn't get in to clean. By selling those, and buying others such as The Malting House, Ashworth Park, and former shops along Newnham Road etc, we've made it all much easier to manage."

The College has grown significantly in numbers as well as in building stock, in a period which represents almost half of its 60-year existence.

"It's changed enormously since we've got bigger," Phil says. "There's a lot more paperwork, a lot more risk assessments – you can't just run up a ladder anymore. Life is safer, but a lot more complicated!"

What hasn't changed, however, is the propensity of students to keep making the same mistakes as their predecessors, leading to the same headaches for the maintenance team.

"It's been lovely working with the students over the years trying to make their life more comfortable whilst they are at Darwin. But they also left us some surprises, such as sinks and baths overflowing!"

Phil has worked closely alongside three successive bursars, collaborating on building and development works, and enjoying all the challenges these would bring. The earliest of these brought a unique skillset to the role.

"Andrew Thompson, who appointed me, was an ex-RAF pilot, a lovely guy. If we had the odd quiet day he used to say to me 'are you up to much Phil? Shall we go up?' He'd take me flying and we'd take some aerial photos of the College."

With a background as an electrician, but the ability to turn his hand to most trades, Phil has left his mark on the physical fabric of Darwin life. But even after 26 years, he's still wistful that he'll miss the next phase of change – the introduction of air-source and river-source heat pumps.

He and his partner plan to make the most of retirement, through travel and other adventures, but he won't be putting his feet up when it comes to maintenance.

"We have a house; my two daughters both have houses so there'll always be a project for me to get my teeth into."

Darwin College Register 2024

VISITOR

Sue Lascelles, Baroness CARR of WALTON-on-the-HILL DBE PC MA; (2023); Lady Chief Justice of England and Wales

MASTER

Michael Russell Wheldon RANDS BSc DPhil DSc; (2020); Deputy Vice-Chancellor, University of Cambridge

VICE MASTERS

Fiona Eve KARET PhD FMedSci; (2014); Professor of Nephrology, Cambridge Institute for Medical Research
Sara Theresa BAKER PhD; (2012); Professor in Developmental Psychology and Education, Faculty of Education

DEAN

Duncan James NEEDHAM PhD; (2013); Associate Lecturer, Faculty of History

DEPUTY DEANS

Matthew Russell JONES PhD; (1992); Reader in Information Systems, Judge Business School
Simone Nicole WEYAND PhD; (2016); Group Leader, Department of Biochemistry

BURSAR

John Tannatt DIX LLB MA; (2014)

COLLEGE SECRETARY

Julian Graham EVANS MA; (2014); Secretary of the School of the Humanities and Social Sciences

COLLEGE PRAELECTOR

Timothy Nicholas MILNER MA; (2016); University Ceremonial Officer and additional Pro-Proctor for Ceremonial Occasions

DEVELOPMENT DIRECTOR

Fiona Janet DUFFY BA MA; (2023)

OFFICIAL FELLOWS

Carol Elspeth Goodeve BRAYNE CBE MSc MD FRCP FFPH; (1995); Professor of Public Health Medicine, Cambridge Institute of Public Health
Anne Carla FERGUSON-SMITH CBE PhD FRS FMedSci; (1997); Arthur Balfour Professor of Genetics, Department of Genetics
Christopher Michael BISHOP PhD FRS FRSE; (1998); Director, Microsoft Research Cambridge
Torsten KRUDE PhD; (2000); Associate Professor, Department of Zoology
Alan Frank BLACKWELL PhD; (2001); Professor of Interdisciplinary Design, Department of Computer Science and Technology
John Harold NILSSON-WRIGHT PhD; (2001); Associate Professor, Faculty of Asian and Middle Eastern Studies
Emily Fleur SHUCKBURGH OBE PhD; (2001); Director, Cambridge Zero
Mark Edmondus Jan DE ROND DPhil; (2006); Professor of Organisational Ethnography, Judge Business School
Dénes SZÜCS MA PhD; (2007); Reader in Cognitive Neuroscience and Psychology, Department of Psychology, Wine Steward
Carl Edward RASMUSSEN PhD; (2008); Professor of Machine Learning, Department of Engineering
Russell Paul COWBURN PhD ScD FRS; (2011); Director of Research, Cavendish Laboratory
Thomas Jeffrey MILEY PhD; (2011); Lecturer in Political Sociology, Department of Sociology
Chris Guy SANDBROOK PhD; (2011); Senior Lecturer in Conservation Leadership, Department of Geography
Jonathan Luke HEENEY PhD ScD; (2012); Head of The Laboratory of Viral Zoonotics, Department of Veterinary Medicine
Jan Dietrich Karsen LÖWE PhD FRS; (2012); Research Leader, MRC Laboratory of Molecular Biology
Paul Stuart ANDERSON PhD; (2013); Associate Professor in Middle Eastern Studies, Faculty of Asian and Middle Eastern Studies
Jane Elizabeth FRANCIS DCMG PhD FRS; (2013); Director, British Antarctic Survey

Paul Joseph LEHNER PhD FRCP FMedSci FRS; (2013); Professor of Immunology and Medicine, Cambridge Institute for Medical Research
Eric William WOLFF PhD FRS; (2013); Royal Society Research Professor, Department of Earth Sciences
Christine VAN RUYMBEKE PhD; (2015); Ali Reza and Mohamed Soudavar Professor in Asian and Middle Eastern Studies; Deputy College Praelector
Julia M DAVIES MA PhD; (2016); Head of Transport Group, Department of Plant Sciences
Timothy Nicholas MILNER MA; (2016); Senior Pro-Proctor, Ceremonial Officer, Deputy College Praelector
Aylwyn Olav SCALLY PhD; (2016); Associate Professor, Department of Genetics
Angela Mary WOOD MA PhD; (2016); University Lecturer in Biostatistics, Department of Public Health and Primary Care
Maha ABDELRAHMAN PhD; (2017); Reader in Development Studies and Middle East Politics, Faculty of Asian and Middle Eastern Studies
Alexandra Melike BRINTRUP PhD; (2017); Associate Professor in Digital Manufacturing, Institute of Manufacturing
Paolo CAMPANA PhD; (2017); Associate Professor in Criminology and Complex Networks, Institute of Criminology
Daniel Haskell WEISS PhD; (2017); Polonsky-Coexist Lecturer in Jewish Studies, Faculty of Divinity
James Benedict ROWE PhD FMEDSCI; (2018); Patrick Sissons Fellow, Director of Cambridge Centre for Frontotemporal Dementia and Related Disorders, Department of Clinical Neurosciences
Hong GE PhD; (2018); Senior Research Fellow, Department of Engineering
Jennifer Mary SCHOOLING OBE PhD FICE; (2018); Director of the Centre for Smart Infrastructure, Department of Engineering
Thorsten Edwin BOROVIAK PhD; (2019); Principal Investigator, Laboratory for Primate Embryogenesis, Department of Physiology, Development and Neuroscience

Darwin College Register 2024

Ioannis KONTOYIANNIS PhD; (2020); Professor, Chair of Information & Communications, Department of Engineering
Edwin David ROSE PhD; (2020, Munby Fellow); Advanced Research Fellow, Department of History and Philosophy of Science
Angelos MICHAELIDES PhD FRS; (2021); 1968 Professor of Chemistry, Department of Chemistry
Jacqueline COX MA; (2022); Keeper of the University Archives, University Library, College Archivist
Annouchka Cassandra BAYLEY PhD; (2022); Chair of the Arts and Creativities Research Group, Faculty of Education
Prof Eric Baird FRENCH PhD; (2023); Montague Burton Professor of Industrial Relations and Labour Economics, Faculty of Economics
Flora Barbara SAMUEL BA PhD RIBA; (2023); Professor of Architecture, Department of Architecture
Jeremy ADELMAN PhD; (2024); Director of the Global History Lab, Faculty of History

ADVANCED RESEARCH FELLOWS

Chloe KATTAR PhD; (2021); Research Fellow in History, Research Fellow Faculty of History, Fellow Librarian

VISITING FELLOWS

Sarah Amy PYKE PhD; (2023); Munby Fellow in Bibliography, University Library

RESEARCH FELLOWS

Jan BEHRENDTS PhD; (2020); Research Fellow in Physics, Postdoctoral Researcher, Cavendish Laboratory
Nathaniel ANDERSON PhD; (2021); Charles & Katharine Darwin Research Fellow in Cancer and Genomics, Postdoctoral Fellow, Wellcome Sanger Institute
Arthur Samuel Richard HARRIS PhD; (2021); Lloyd-Dan David Research Fellow in Ancient Science, Lloyd Dan David Research Fellow, Needham Institute
Sophie Leanne MORRISON PhD; (2021); Research Fellow in Engineering, Researcher, Department of Engineering

Sandra PETRUS-REURER PhD; (2021); Research Fellow in Surgery, Postdoctoral Research Associate, Saeb-Parsy Laboratory
Tamsin Joy SAMUELS PhD; (2021); Research Fellow in Genetics, Herchel Smith Research Fellow, Department of Genetics
Finn Edward STIRLING PhD; (2021); Research Fellow in Biochemistry, Postdoctoral Researcher, Department of Biochemistry
Jess Emma THOMPSON PhD; (2021); Research Fellow in Archaeology, Research Associate, McDonald Institute for Archaeological Research
Lakshmi BALASUBRAMANIAM PhD; (2022); Herchel Smith Research Fellow, Department of Physiology, Development and Neuroscience
Maharshi Harshadbhai DHADA PhD; (2022); Research Fellow in Industrial Asset Management, Department of Engineering
Saffron Anant Madhav EAST PhD; (2022); Adrian Research Fellow in Black and Asian British and Irish History, Faculty of History
Amine EL-YOUSFI PhD; (2022); Research Fellow, Department of Sociology
Igor KAVRAKOV PhD; (2022); Research Fellow in Structural Engineering, Department of Engineering
Xiaolei ZHANG PhD; (2022); Research Fellow Statistical Genetics and Genomics, European Bioinformatics Group
Paula Diana ARSENI PhD; 2023; Research Fellow in Molecular Biology, MRC Laboratory of Molecular Biology
Tessel BOUWENS PhD; 2023; Research Fellow in Chemistry, Department of Chemistry
Fabian Simon EICHBERGER PhD; 2023; Research Fellow in Law, Lauterpacht Centre
Amelia Elizabeth Seham HASSOUN PhD; 2023; Research Fellow in Anthropology, Minderoo Centre
Amanda Michelle Ferguson PhD; 2023; Research Fellow in Clinical Psychology, MRC Cognition and Brain Sciences Unit
Peter Benjamin Martin PhD; 2023; Moses and Mary Finley Research Fellow, Faculty of Classics
Tian Irene Tian PhD; 2023; Research Fellow in Cell Biology, MRC Institute of Metabolic Science

HONORARY FELLOWS

Geoffrey Ernest Richard LLOYD Kt PhD FBA; (1985)
Jeffrey William EDINGTON PhD DSc; (1998)
Amartya Kumar SEN CH MA PhD (Hon) LittD FBA FRSE; (1998)
Michael Charles SHEPPARD MA DPhil; (2000)
Charles Antony Richard HOARE Kt DSc FRS FREng; (2001)
Ekhard Karl Hermann SALJE PhD FRS; (2002)
Robert Anthony RAYNE; (2004)
Martin John, Lord REES of LUDLOW OM PhD (Hon) ScD FRS; (2004)
Bernard Michael de Lerisson CAZENOVE; (2005)
Jean Olwen THOMAS DBE MA ScD FRS FMedSci; (2007)
Robert Hughes JONES PhD; (2008)
Simon Hastings BITTLESTON PhD; (2013)
Alan Roy FERSHT Kt PhD FRS FMedSci; (2014)
Nicola Margaret PADFIELD MA DipCrim DES; (2014)
Gregory Paul WINTER Kt CBE PhD FRS FMedSci; (2014)
Robin Wayne CARRELL PhD ScD FRS FMedSci FRSNZ; (2015)
Janet ROSSANT CC PhD (Hon) ScD FRS FRSC; (2017)
Elizabeth Helen BLACKBURN AC PhD (Hon) ScD FRS FAA FRSN; (2018)
Simon Douglas KEYNES PhD LittD FRHistS FSA FBA; (2018)
Eric Stark MASKIN PhD (Hon) ScD; (2018)
Valerie Jane GOODALL DBE PhD (Hon) ScD; (2019)
Sally Claire DAVIES GCB DBE FRS FMedSci; (2020)
Philippa Jane ROGERSON PhD; (2020)
Heather Jane HANCOCK LVO DL MA; (2021)
Amrita NARLIKAR PhD; (2021)
Euan George NISBET PhD; (2020)
Elizabeth Jane ROBERTSON DBE MA PhD (Hon) ScD FRS FMedSci; (2022)
Julia Mary SLINGO DBE (Hon) ScD FRS, (Hon) FRMetSoc, (Hon) FRSC (Hon) FlInstP; (2023)
Angela Mary Bruce DARWIN JP; (2023)
Emmanuelle CHARPENTIER DPhil; (2024)

EMERITUS FELLOWS

Reginald Frederick William GOODWIN MA PhD MRCVS; (1966)
George Thomas GÖMÖRI MA BLitt; (1969)
Elisabeth Somerville LEEDHAM-GREEN MA PhD; (1973)
Roger George WHITEHEAD CBE MA PhD FIBiol; (1973)
Peter Furneaux FRIEND MA PhD; (1974)
Nicholas JARDINE MA PhD; (1975)
Dean Ullathorne HAWKES MA PhD RIBA; (1976)
Richard HENDERSON CH PhD FRS; (1981)
Ronald Alfred LASKEY CBE PhD FRS; (1982)
Janine Delysia BOURRIAU FRENCH MA FSA; (1983)
Nicholas James Bertram Alwyn BRANSON MA PhD; (1983)
Andrew Christopher FABIAN OBE MA PhD FRS; (1983)
Simon John SCHAFER MA PhD; (1984)
Harshad Kumar Dharamshi Hansraj BHADESHIA Kt PhD FEng FRS; (1985)
Leopold Eftimios Anagnostis HOWE MA PhD; (1986)
Adrian Thomas GROUNDS DM FRCPsych; (1987)
Mohammad Munawar CHAUDHRI PhD; (1990)
Andrew Mawdesley PITTS PhD; (1990)
Kathleen Michelle WHEELER PhD; (1990)
Karalyn Eve PATTERSON FRS FMedSci FBA; (1991)
Margaret M. CONE PhD; (1992)
John Robert COOPER PhD; (1993)
Francois André PENZ PhD; (1995)
Richard Anthony COX ScD; (1999)
Peter John BRINDLE MA MPhil FCMi FInstD; (2001)
Peta Margaret STEVENS MA; (2001)
Felicia Adina HUPPERT PhD; (2002)
Ian MCCONNELL MA PhD MRCVS FRCPATH FRSE; (2003)
Christopher CULLEN MA PhD; (2005)
Michael Edwin AKAM DPhil FRS; (2006)
Philip Alexander DAWID MA ScD FRS; (2007)
Lawrence William SHERMAN PhD; (2009)
Martin Kenneth JONES PhD FSA; (2011)
Christine Mary Rutherford FOWLER MA PhD FRAS FGS FRCS; (2012)

BYE-FELLOWS

Nicholas HUMPHREY PhD (2009)
Daniel WUNDERLICH PhD (2012)
Andreas KONTOLEON PhD (2016)
David Alan FRIEDMAN DPhil PhD; (2017)
Catherine Morag Elisabeth HOWIE; (2018)
Arokia NATHAN PhD; (2018)
Jerome SIMONS PhD; (2023)
Matthew SPENCER, PHD (2023)
Stefanie ULLMANN PhD; (2023)
Anthony HOTSON PhD; (2024)
Nan MA PhD; (2024)
Julia SNYDER PhD; (2024)

DISTINGUISHED ASSOCIATES

Ian Duncan, Lord BURNETT of MALDON PC DL
Diana, Lady BRITTAN DBE
Mr Edward Graham Mellish CHAPLIN CMG OBE
Hermann Maria HAUSER KBE PhD FRS FREng FInstP CPhys
William Hall JANEWAY CBE PhD
Weslie Resnick JANEWAY
Sheila Tayback LEATHERMAN CBE (Hon.) FRCP
Barbara Mary STOCKING DBE MA

SENIOR MEMBERS

Ms Patricia ASKE; Darwin College
Ms Saumya BALSARI; Author
Dr Nigel BOWLES; Centre for Financial History
Dr Davide CHIARUGI; Wellcome-MRC Institute of Metabolic Science
Dr Daniel FAZAKERLEY; Medical School
Prof John GABBAY; Cambridge Institute of Public Health
Dr David GERSHLICK; Cambridge Institute for Medical Research
Dr Angela GONCALVES; Wellcome Trust Sanger Institute
Dr Stefan GRÄF; Department of Medicine
Dr Guillaume GUILBAUD; MRC Laboratory of Molecular Biology
Dr Inanna HAMATI-ATAYA; Centre for Research in the Arts, Social Sciences and Humanities
Dr Daniel JONES; British Antarctic Survey
Prof Adrian KENT; Department of Applied Mathematics and Theoretical Physics
Dr Olha KUSHNIRUK; Faculty of Music

Ms Noelle L'HOMMEDIEU; Darwin College
Dr Eyal MAORI; Department of Veterinary Medicine
Dr Anna PETRUNKINA-HARRISON; Department of Medicine
Dr Gloria PUNGETTI; Chair Darwin College Alumni Society
Prof Nebojša RADIĆ; Language Centre
Dr James SMITH; Department of Public Health and Primary Care

VISITING RESEARCHERS

Dr Silvia CROYDON, Faculty of Asian and Middle Eastern Studies
Dr Patrick HEALY, Faculty of Law
Prof Ji GUO, Judge Business School
Dr Jakub KRONENBERG, Department of Geography
Prof Gordon MCOUAT, Department of History and Philosophy of Science
Prof Christine SCHWÖBEL-PATEL, Centre for Research in the Arts, Social Sciences and Humanities
Prof Ning ZHANG, Faculty of Economics

DAVID MACKAY RESEARCH ASSOCIATES

Dr Catherine WAITE, Department of Zoology
Dr Jinying XU, Department of Engineering

POSTDOCTORAL ASSOCIATES

Dr Pablo ALCON; MRC Laboratory of Molecular Biology
Dr Randolph ALTMAYER; Department of Applied Mathematics and Theoretical Physics
Dr Vivian BASTIDAS; Department of Engineering
Dr Christopher BEAUDOIN; Department of Biochemistry
Dr Daniele BIASCI; Cambridge Institute for Medical Research
Dr Sumit Kumar BIRWA; Cavendish Laboratory
Dr Megan BROWN; Department of Chemistry
Dr Eleanor CAMPBELL; Department of Biochemistry

Darwin College Register 2024

Dr Dora Luz CANO RAMIREZ; Department of Earth Sciences
Dr Crispin CHAGUZA; Sanger Institute
Dr Hao-Chung CHENG; Department of Applied Mathematics and Theoretical Physics
Dr Chaoqun DONG; Department of Engineering
Dr Eleanor DRAGE; Centre for Gender Studies
Dr Hanne DUINDAM; Institute of Criminology
Dr Onur ENGIN; Faculty of Music
Dr Maud FORMANEK; Sainsbury Laboratory
Dr Jen FREER; British Antarctic Survey
Dr Heye FREYMUTH; Department of Earth Sciences
Dr Avishai GILKIS; Institute of Astronomy
Dr Or GRAUR; Institute of Astronomy
Dr Chloe GUILLAUME; Department of Physiology, Development and Neuroscience
Dr Georgios HADJIDEMETRIOU; Department of Engineering
Dr Daniel HUGENROTH; Department of Computer Science and Technology
Dr Chiho. JEON; Department of Engineering
Dr Katy JORDAN; Faculty of Education
Dr Sanne KAALUND; Cambridge Neuroscience
Dr Luke KEMP; Centre for Science and Policy
Dr Emma LAWLOR; MRC Laboratory of Molecular Biology
Dr Michela LEONARDI; Department of Zoology
Dr Xuan LIANG; Department of Physiology, Development and Neuroscience
Dr Francesco MUIA; Cavendish Laboratory
Dr Min-Yen ONG; Faculty of Music
Dr Sonia PASCOAL; Department of Zoology
Dr Laura PELLEGRINI; MRC Laboratory of Molecular Biology
Dr Sabin ROMAN; Centre for the Study of Existential Risk
Dr Isobel ROMERO-SHAW; Department of Applied Mathematics and Theoretical Physics
Dr Souvik ROY; Department of Chemistry
Dr Trishant SIMLAI; Department of Geography
Dr Enric STERN-TAULATS; Department of Materials Science and Metallurgy
Dr Dulika SUMATHIPALA; Addenbrooke's
Dr Jason Qianchen SUN; Department of Engineering

Dr Floor VAN DEN HEUVEL; British Antarctic Survey
Dr Kavyaa VENKAT; MRC Laboratory of Molecular Biology
Dr Lieven VERDONCK; Faculty of Classics
Dr Sneha VISHWANATH; Department of Veterinary Medicine
Dr Alan WANKE; Sainsbury Laboratory
Dr Hanting YANG; MRC Laboratory of Molecular Biology
Dr Tun Jan YOUNG; Department of Geography
Dr Maria ZACHAROPOULOU; Pharmacology
Dr Joseph ZHANG; Department of Chemistry

Higher Doctorates Received July 2023 – July 2024

Doctor of Science

Adrian Patrick Antony KENT

Graduands Presented July 2023 – July 2024

DOCTOR OF PHILOSOPHY

Applied Mathematics & Theoretical Physics

Nicolas Patrick CIMERMAN

Disc-planet interactions in inviscid discs

Jacob Willock SMITH

Timescales of processes controlling water vapour entry to the stratosphere

Archaeology

Malcolm John CONNOLLY

Living near permanent water in the upper Murray-Darling Basin implications from the micromorphology of buried soils near artesian springs

Elena SCARSELLA

Mediterranean highlanders: violence and identity in the pre-Roman Aterno Valley (Italy)

Asian & Middle Eastern Studies

Fei YUAN

L2 representations and processing of Chinese nominal phrases by speakers of classifier and non-classifier languages

Astronomy

Jonathan Philip ITCOVITZ

The early evolution of terrestrial planets: impact simulations & planetary chemistry

Biochemistry

Oliver McKenzie CROOK

Bayesian methods for spatial proteomics

Kadalmani KRISHNAN

Characterisation of the G protein controlled tyrosine kinase, ACK1 and its interaction with nucleolar partner proteins

Donna Jane LOWE

Cell-type-specific responses to DNA damage from acute and chronic radiation

Biological Anthropology

Jonathan Reuven GOODMAN

The evolution of exploitation through mimicry

Biological Science

Tiana Sophia BEHR

Investigating tau propagation in situ

Daniel Klaus BUHL

Novel diagnostic methods for rapid detection and identification of bacterial infections in bovine mastitis

Vivian Angela MONZON

Computational discovery of bacterial fibrillar adhesins and adhesive domains

Martina RIMOLDI

The evolution of gene regulatory landscapes in mammalian tissues

Maria THEISS

Synthetic ground truth of biological shapes - simulating variable nuclear pore complexes for microscopy

Paula Helena WEIDEMÜLLER

Inferring context-specific essentiality networks using large-scale CRISPR-KO screens

Pablo Manuel GONZALEZ DE LA ROSA

Chromosome evolution in Rhabditina (Nematoda) with a focus on programmed DNA elimination

ZHIHAN XU

Gene regulatory networks at single-cell resolution: an approach to exploring the impact of genomic regulation on cellular heterogeneity

Chemical Engineering

Geyunjian ZHU

Tackling the bottlenecks in translational nanomedicine: towards precision in size control and facile nanoformulation

Chemical Engineering & Biotechnology

Chiara BARBERIO

Development and characterisation of a human in vitro model of the Neurovascular Unit using a biomimetic tissue engineered system

Sarah Louise BARRON
Developing bioelectronic sensors for 3D in vitro models at the air liquid interface: innovative technology for biomedical and respiratory research

Chemistry
 Xiaoyi CHEN
Supramolecular functional materials based on cucurbit[8]uril-enhanced pi-pi interactions
 Yuchen HU
Ab initio study of atomic dynamics and thermal properties of inorganic clathrates, chalcogenides and perovskite oxides
 Vivian Miles LECHNER
Selective chemical modification of modified base N6-methyladenine (N6mdA) toward a novel epigenetic profiling method

Classics
 Zoë AUDRA
Thinking about acting: the use of causal knowledge for the sake of intentional action in Heraclitus, Hippocratic on regimen and Democritus

Clinical Neurosciences
 Pok Him CHO
Unravelling the genetics of cerebral small vessel disease
 Malak Rashed H KAWAN
A biohybrid bridge between brain and machine: development and application of a neural implant using iPSC-derived neuronal membranes
 Nikolaos PATIKAS
Investigating Parkinson's disease: human iPSC-derived models through single-cell gene expression
 Ilkem SEVGILI
Unravelling spiral ganglion neuron electrophysiology: heterogeneity, gene therapy, and in-vitro testing models
 Brandon George SMITH
Long-term follow-up following traumatic brain injury: contextual understanding and technology-led solutions

Clinical Biochemistry
 Georgina Katie Clare DOWSETT
Mapping the feeding circuitry in the mouse and human brain

Computer Science
 Christopher Colin DAVIS
On the evaluation and application of neural language models for grammatical error detection

Daniel HUGENROTH
Strong metadata privacy for mobile devices and applications
 Jin ZHU
Deep neural networks for medical image super-resolution

Connected Electronic & Photonic Systems
 Jana SKIRNEWSKAJA
High-definition holographic head-up displays

Earth Sciences
 Matthew Patrick BRADY
Application of hydrogen and oxygen ratios of water to the study of evaporation, palaeoclimate, and ancient marine conditions
 Pei-Chen KUO
Comparative morphology and macroevolution of the avian quadrate
 Eric Laurent NEWLAND
Dynamics of deep-submarine explosive eruptions
 Stuart RUSSELL
Seismic evidence for layering at the core-mantle boundary

Economics
 Andrew HANNON
Essays on the economics of debt, default and housing markets

Education
 Alona CHMILEWSKY
Humanisation of online learning: experiences that matter
 Genevieve Elizabeth SMITH-NUNES
Raising awareness of data-ethics for PGCE computing using ballet and biometrics as narrative tools: an AgileDBR approach
 Anne Katharine ZONNEVELD
Executive function measurement in urban schools: exploring links between performance-based metrics and teacher ratings

Engineering
 Samer Abdelmoeti Abuzeid ABDELMOETI
Human perception of transient longitudinal vehicle motion
 Ratul DAS
Mechanics of liquid transport and swelling in porous media
 Tanyaradzwa MANGOMA
Additive manufacturing of organic neuromorphic devices and neural networks
 James Timothy MEECH
Domain-specific analog physical computing accelerators

Tobias Eduard NAEGELE
Redox-flow iontophoresis for brain cancer therapy
 Robert Edwin ROUSE
Machine learning approaches to assessing future flood & storm risk
 Barney SALSBY
From pine cones to minimal surfaces: the geometry and mechanics of morphing bilayers
 Zixuan TANG
Self-healing strain-hardening cementitious composites (SH2CC) for cyclic loading environments
 William TEBBUTT
Advances in software and spatio-temporal modelling with Gaussian processes
 Melanie Jane WHITFIELD
An electronic nose function realised by laser-induced graphitization of polyimide

Genetics
 Audrey Lauren Keane PUTMAN
A role for environmental epigenetics in the rapid diversification of East African cichlid fishes
 Hilde SCHNEEMANN
Fitness landscapes, genetic interactions, and the fitness of hybrids
 Anna Frances TOWNLEY
*A genetic interaction network of constitutive heterochromatin in *Caenorhabditis elegans**

Geography
 Xingran GAO
Examining the influence of aerosols from air pollution on current and projected temperatures in the urban area of Chongqing, China
 Peili PEY
Urban green assemblage: a machinic-MLG approach to green cities

Haematology
 Hendrik Friedrich Peter RUNGE
Targeting essential germinal centre transcriptional programmes in B cell Lymphoma

History
 Colin Ellis CHAMBERLAIN
British attitudes to the German economic miracle, 1948 to circa 1971
 Siyabonga NJICA
The Transatlantic world of William Bloke Modisane, 1951–1986

Darwin College Register 2024

Saul YARDLEY

Changing conceptions of geopolitical success: the treaty of Paris as a watershed in Anglo-French understandings of the international system

History of Art

Lucas GILES

Choir screens and digital technologies: reconstructing church interiors and mendicant altarpieces in medieval Pisa

History & Political Science

Miguel OHNESORGE

The problem of the Earth's figure: measurement, theory and evidence in physical geodesy

Land Economy

Marco FELICI

The economic and social consequences of housing tenure

Martina KUNZ

Analysis of environmental treaty design: a data science approach

David Robert Fraser SAWTELL

The effect of construction operations on interests in land

Law

Daniela Gueiros Dias

Inconsistencies in law

Materials Science

Chenlong GAO

Improvement of cathode material for solid oxide fuel cell through surface infiltration and electrospinning

James Patrick MOFFAT

A study of cobalt-based superalloys for high-temperature glass vitrification applications

George Robert LEWIS

Understanding nanomagnetism from all angles: Developments in magnetic electron tomography

Hugh Owen RAMSDEN

Nanoscale characterisation of heterointerfaces in 2D materials

Mauro VELASCO CASTRO

Predicting microstructural heterogeneities in the laser powder bed fusion of γ' strengthened nickel-base superalloys

Medical Genetics

Eliska ZLAMALOVA

Characterising the roles of mammalian atlastins in the endoplasmic reticulum and beyond

Medical Science

Christopher Anthony BOWER-LEPTS

An in vitro chemogenomic screening system to identify the molecular targets of antimalarial drug candidates

Hannah Clare BUCKLEY

Pre-operative ablative radiotherapy in combination with immunotherapy and novel agents in pancreatic cancer

Ruben Matthias DREWS

Signatures of chromosomal instability in human cancers

Isabel ESAIN GARCIA

Investigating DNA G-quadruplex structure function through genome and epigenome engineering

Rachel Clare KNIGHT

Notice, observe, step back and experience: the assessment and potentiation of psychological decentering for adolescent mental health

Mairead RYAN

School-based health promotion: understanding the educational context to facilitate change

Rachel Frances SIMPSON

Understanding physical activity in parents

Medicine

Daniel KOTTMANN

Identification and validation of new therapeutic targets for squamous cell lung cancer

Music

Darren Stuart BLOOM

Striking a balance: finding equilibrium between science and poetics in composition

Nuclear Energy Futures

Zi Liang TAN

Data assimilation for verification of dry storage cask content

Oncology

Anna Elizabeth DYAS

Characterisation of HIF2A targets identifies MYC as a key determinant of HIF2A dependency in ccRCC

Pathology

Fiorella Maria CUGLIANDOLO

Harnessing synergy between BCL6 and PI3K δ to generate a new mouse model for lymphoma

Jun Mun LIEW

Novel treatment strategy for ALK-positive Anaplastic Large Cell Lymphoma (ALCL)

Charlotte TUMESCHEIT

Algorithm development for RNA structure prediction in RNA viruses

Pharmacology

Rebecca Barbara RIDDLE

Development and characterisation of a vessel-on-a-chip model of inflammation and inflammatory haemostasis

Holly Anna SMITH

High-resolution optical analyses of inositol 1,4,5-trisphosphate receptors and the Ca²⁺ puffs they evoke

Photovoltaics

Darcy Mary-Louise UNSON

Photophysical studies of active layer compositions in organic solar cells

Physics

Fionn Caitlin Ros BISHOP

Beauty meson to double open charm decays with the LHCb detector

Holly Martha HERBERT

Optimisation of Hall cross devices towards magnetic particle counting

Benjamin HODKINSON

Enhancing the sensitivity of the ATLAS experiment to electroweak supersymmetry

Elkin M. LOPEZ-FONTAL

Study of calcium phosphate formation driven by the dissolution of a 45S5 bioactive glass

James Joseph Dominic LUIS

Development of an automated alignment system for the Magdalena Ridge Observatory Interferometer

Physiology, Development and Neuroscience

Buffy Lydia ELDRIDGE-THOMAS

Identifying novel roles for basement membrane associated proteins in the adult drosophila intestinal epithelium

Plant Sciences

Dominic Edward ABSOLON

Exploring B vitamin biosynthesis and exchange in understudied marine stramenopiles and their communities

Patrick Robert HICKLAND

*Expanding the molecular tools for the microalgae *Chlorella vulgaris* and *Phaeodactylum tricornutum**

Piotr WŁODZIMIERZ

Understanding meiotic recombination and genomic organisation of plant species

Emily Kate SERVANTE

Harnessing the genetic potential for arbuscular mycorrhizal symbiosis in rice

Psychiatry

Samantha Nicole SALLIE

The neurocognitive dynamics underlying loss of control in alcohol misuse and addiction

Polar Studies

Maximilien ZAHND

On indigenous tax consciousness: the socio-legal history of the native village of the Venetie tribal government, 1938–1987

Politics & International Studies

Timothy Garnham LESS

'RS-Exit' The geopolitics of integration and disintegration in Bosnia and Herzegovina, 1993-2020

Psychiatry

Anna-Lena DORFSCHMIDT

Development of human functional and structural brain networks in adolescence and its relevance to psychiatric disorders

Colleen Peggy Elizabeth ROLLINS

Neurobiological mechanisms of hallucinations in schizophrenia

Public Health & Primary Care

Aaron Jacob BERNSTEIN

Immune infiltrates in breast cancer: clinical significance from histopathology to prognosis

Susan Chinelo Ene IFEAGWU

Enabling universal health coverage in sub-Saharan Africa: implications and learnings from Uganda

Megha MAJUMDER

Between paradox and prescribing: understanding anticipatory prescribing at the end of life in UK care homes

Pure Mathematics & Mathematical Statistics

Yu WANG

Gross-Siebert mirror ring for smooth log Calabi-Yau pairs

Social Anthropology

Kevin Mahir YILDIRIM

Unjust profit: moral economies of recycling and migration in urban Turkey

Sociology

Courtney Loree HALLINK

The limits of social citizenship: unemployment insurance and the reproduction of the South African racial capitalist state, 1937-2023

Veterinary Medicine

James ROONEY

An exploration of parasite-microbiota interactions in the ruminant gastrointestinal tract and insights into the antibacterial role of helminth excretory-secretory products

Zoology

Thomas John CLEMENTS

Money for something? Investigating the effectiveness of biodiversity conservation interventions in the northern plains of Cambodia

Milena PAVLICKOVA

Origins of non-coding Y RNA family and its role in DNA replication

MASTER OF ARTS (STATUTE B II 2)

Jan BEHREND

Samuel James COBB

MASTER OF LAW

Salem Salah Ahmed Saleh ALMEDFAA

Phuvit ASSAWARUNGRUANG

Nicha AU-YEUNG

Amaury Marie Arnaud CHEVRIER

Jessica Jean DOWNING-IDE

Nikita GARG

Tereza JAKOUBKOVÁ

Emil KRUDE

Poonika LAOHAPIROTWATTANA

Yi Heng LEONG

Maroof RAFIQUE

Camilla MIDDLETON

Jonathan Anthony RUTHERFORD

Ashviny SRINAYAGAM

Atmaja TRIPATHY

Robert Paul WHITE

MASTER OF CORPORATE LAW

Emel TULUN

MASTER OF ACCOUNTING

Jean-Pierre NIEKI-KIANIONGUA

MASTER OF ADVANCED STUDY

Applied Mathematics

Yat Long KWOK

Dhruv PATHAK

Himal RATHNAKUMARA

MASTER OF BUSINESS ADMINISTRATION

Yingzi CHE

Paula Olaitan FANIRAN

Pasinee HONGSAVES

Shuli HU

Ryo ISHIKAWA

Vatika JOSHI

Madeline Samantha KLEIN

Korawit KOONVISAL

Tao LI

Zihan LIU

Sri Sesha Sai Yashwanth MADABHUSHI

Pitchsinee MEKSEEPRALARD

Teruyuki MORINO

Peter Bradley REICHARDT

Anthony Joseph RODRIGUEZ

Simran Jeetendra SAWHNEY

Harsh SAXENA

Yingyan SU

Vathuthita TECHATARATIP

German URIBE MORENO

Yue WU

Ina Xuqiao ZHAO

MASTER OF EDUCATION

Lawrence Francis MCNALLY

Georgia Bridget RILEY

Lucy Anne ROCKLIFFÉ

Callum VICKERSTAFF

MASTER OF FINANCE

Xindan CAO

Benjamin James CHEETHAM

Tianhong HU

Kota IKKATAI

Yanxing LONG

Guangze LU

Tianhao MOU

Angel Sebastian PADILLA TAPIA

Zhenzhen PEI

Reza SORAYA

Hao TIAN

Srinath VIJAYSAMPATH

MASTER OF MATHEMATICAL STATISTICS

Kamil BENBRAHIM EL ANDALOUSSI

Hicham SEFIANI

Haoxue WANG

Darwin College Register 2024

MASTER OF RESEARCH

Sensor Technologies & Applications

Chiara BARBERIO

MASTER OF PHILOSOPHY

Advanced Computer Science

Batu EL

Paulina KULYTE

Jacob Daniel MOSS

Muhammad Hamza SAJJAD

Haolong WANG

Yujia YANG

Qiuer ZHU

American History

Mia Grace BLAINEY

Anglo-Saxon, Norse and Celtic Studies

Amina Malak OTTO

Anthropocene Studies

Iona Charlotte NIXON

Archaeology

Viktoria Anika LIEN

Aritri SAMADDER

Architecture & Urban Design

Gabriella WATKINS

Asian & Middle Eastern Studies

Yuqing HUANG

Assyriology

Rebecca Sage AARON

Finlay Hugo TYSON

Basic & Translational Neuroscience

Oriane Emilie MARGUET

Alexandra STRAUSS

Biological Science (Biochemistry)

Lisa CASTELLER

Biological Science (Pathology)

Lewis Jay STRACHAN

Biological Science (Zoology)

Haobo YUAN

Bioscience Enterprise

Neus MUNTÓ GRAU

Biotechnology

Kah Yao CHEONG

Chemical Engineering & Biotechnology

Jieyang XU

Classics

Theodore Gerald CLEMENT

Conservation Leadership

Fariza ADILBEKOVA

Suneha JAGANNATHAN

Rasima SABZALIEVA

Criminological Research

Yasmin Jane DENNEY

Antonia Catherine KENT

Eu-Fern LAI

Tim Yi Jane NGAN

Development Studies

DEEMAH

Qinyun GAO

Emile PETRAVICIUTE

Blanche Virginie Marie TARDIF DE MOIDREY

He XU

Ziyan ZHENG

Digital Humanities

Camila CINTRA

Zheng LIU

Jiashu ZOU

Early Modern History

Xin Ran YAP

Yigit KORKMAZ

Economic & Social History

Edward Culin BROWN

Economic Research

Andreas Snekløth KONGSGAARD

Aditya Babubhai MORI

Khalil SABOURIAN

Economics

Hugh LIND

Neelum MAQSOOD

Nicole Sophia MOLINA

Kaya ÖZYÜREK

Education

Trinidad Alejandra ARELLANO MOYA

Sze Yen CHEAH

Jiantong CHEN

Hannane KANANHENDJANI

Yongyu LIN

Manogya SAHAY

Energy Technologies

Orlaith Mary MCGOWAN

Agustin Jesus MENGONI

Batool MOHSIN

Javier SANDOVAL BUSTAMANTE

Ruiyang WANG

Engineering

James Ieuan KINCH

Engineering for Sustainable

Development

Fabián Alfredo BARRÍA OYARZÚN

Michael LAU

Yuan LIN

Mihailo Mick MALOWANY

Ignacio Esteban RABSIUN ARAMBURU

Ansley Carol ZORA

English Studies

Amber Faye ASH

Leilah Katherine GREENING

Oritsemughone Tsanino OGBEMI

Shavasi Arya SHARMA

Max Daniel SUTTON

Jeremy Shawyu WANG

Environmental Policy

Willie Zile KHOO

Kilian Yonah ROUGE

Film & Screen Studies

Madeline Margaret MCINNIS

Julia Weronika URYGA

Finance & Economics

Wang PENG

Yujie XIONG

Finance

Yajat BANSAL

Yuhan DU

Genomic Medicine

Ying-Wen WANG

Health, Medicine & Society

Emma DONOHOE

Marni Ella OWEN

Isabel SHAW-SMITH

Heritage Studies

Jacqueline Bernadette MOUTTET

History of Art & Architecture

Victoria Lindsay CAMBLIN

History & Philosophy of Science & Medicine

Jakob Johannes Jeremias ORTMANN

Jan Gustaw ZEBROWSKI

Holocene Climates

Sophie MCSHERRY

Latin American Studies

Lily Victoria HOOD

Machine Learning & Machine

Intelligence

Ilaria SARTORI

Management

Venussha BASKARATHASAN

Tapasya SAHU

Medical Science

Hebe Nina MANOS

Micro & Nanotechnology Enterprise

Quanyao LIN

Kalid ULAS

Modern British History

Max Louis HIGDON

Modern European History

Scott BLUM-WOODLAND

Jitka DRAHOTSKÁ

Montagu John Paul JAMES

Modern South Asian Studies

Meeraal SHAFAT BOKHAREE

Qianhe ZHANG

Music

Alfred Joseph Chamberlain WHILLIS

Philosophy

Cara Yasmine Louise ADDLEMAN

Marta BAX

Jack WALKER

Physics

Tim REIN

Ke WANG

Planning Growth & Regeneration

Andrew Stuart MABER-JONES

Callum Mark MCGINNIS

Politics & International Studies

Kiran Hailey BASRA

Lily BEACH

Halima Yasmin DHAMI

Ethan Paul FECHT

Olivia Jaclyn MANES

Marina Leonora MEYJES

Zacharie QUIVIGER

Kaitlyn Sierra WORKMAN

Population Health Sciences

Alena Frances OXENHAM

Josce SYRETT

Zizheng ZHANG

Public Policy

Catherine BOCK

Madeline Elizabeth GARRETT

Veronica Isabel LOPEZ DE LA LAMA

Real Estate Finance

Ana Sofia DE LA TORRE RUIZ

Afshaan GOVANI

Yu JIN

Scientific Computing

Joshua David BICKLER

Social Anthropological Research

Honor Olivia Sarah Hyde GITSHAM

María Fernanda LARTIGUE MARÍN

Social Anthropology

Rachel Paola MERVIS

Si Min Joanna TAN

Sociology

Ryan Tomos SMITH

Mayumi SATO

Strategy, Marketing & Operations

Tianzhu QIN

Theoretical & Applied Linguistics

Xueyan LIU

Eyal ROSENSTEIN

Rowan STEWART

Therapeutic Sciences

Nora HAANAES

Translational Biomedical Research

Ninisha Anubhuti BARMAN

World History

Henry James DARAMOLA-MARTIN

MASTER OF RESEARCH

Biological Sciences

Courtney KREMLER

Cancer Biology

Callum MALCOLM

Connected Electronic & Photonic Systems

Yuang FENG

Future Infrastructure & Built Environment

Thomas George ARDRON

Barney SALSBY

Future Propulsion & Power

Kilian Patrick BARTSCH

Theodore Jonathan James HUCKSTEP

Graphene Technology

Faith Khanyisile MANGWANYA

Mathematical Genomics & Medicine

Hilde SCHNEEMANN

Physical Sciences: Environmental Data Science

Jonathan TORRY

Sensor Technologies & Applications

Sarah Louise BARRON

Ultra Precision Engineering

Tanyaradzwa MANGOMA



Alumni Events 2024

Tuesday 13 August

Alumni Gathering in Halifax, Nova Scotia, Canada

Alumni and friends based in Halifax and the surrounding areas are warmly invited to join Darwin College Fellow Dr Edwin Rose, for a relaxed get-together and the opportunity to catch up with fellow alumni.

30 August & 5 September

Alumni Gatherings in Australia

Alumni and friends based in Adelaide and Sydney are warmly invited to join the Vice Master of Darwin College, Professor Fiona Karet, for a relaxed get-together and the opportunity to catch up with fellow alumni.

Monday 2 December

Festive Drinks Networking Event in London

We look forward to welcoming you back to Darwin, particularly in this, our 60th anniversary year. For full details of events and reunions, please see

www.darwin.cam.ac.uk/alumni-and-supporters/alumni-events



Editor: Laura Kenworthy.

We welcome short articles, pictures and news from all alumni.

Correspondence to: **communications@darwin.cam.ac.uk**

Front cover image credit: David Johnson

Back cover image credit: Matt Bilton