

FOREVER SURREY

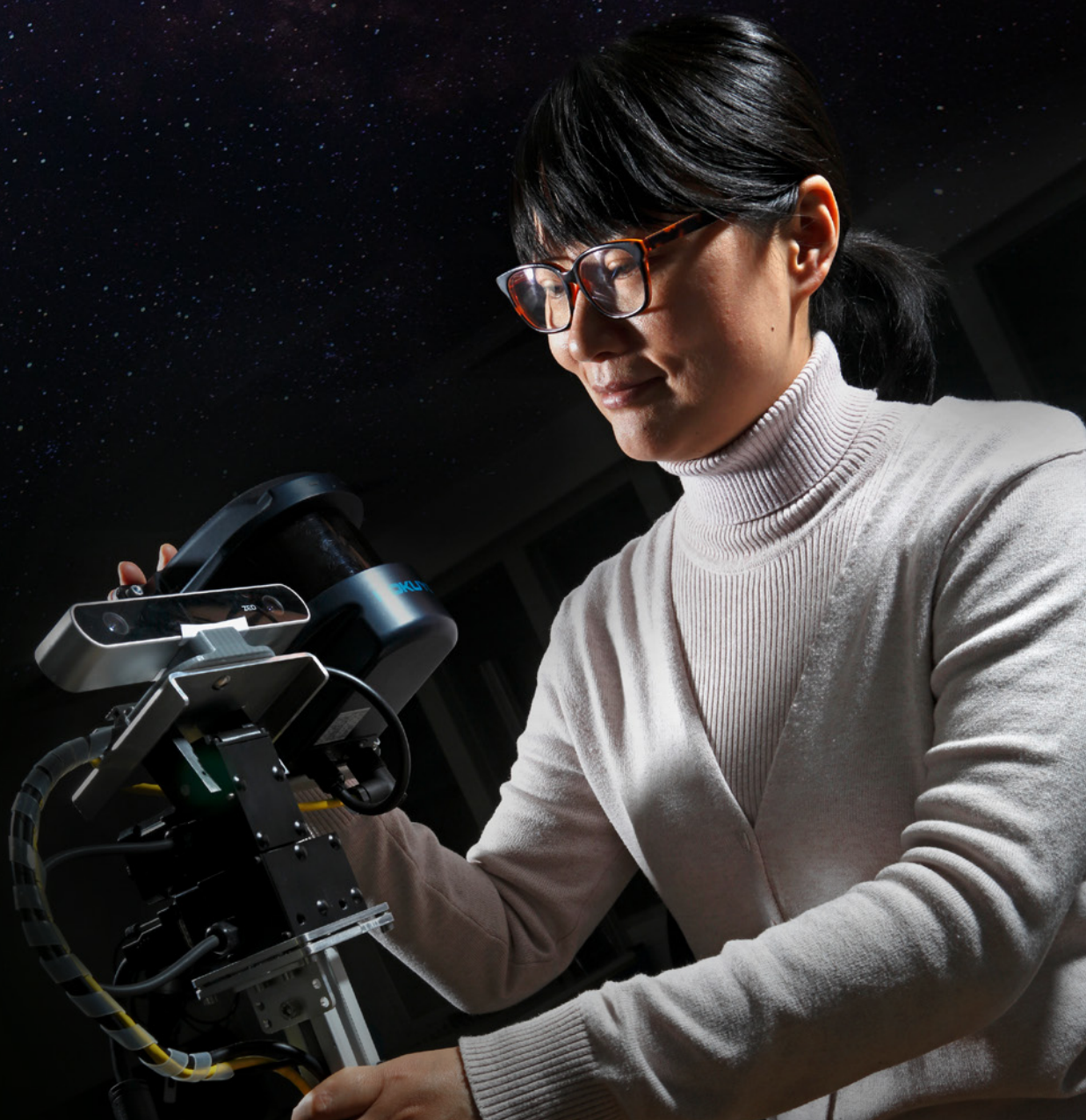
The magazine for alumni, supporters and friends

Issue 4 / 2018



SHOOTING STAR

Professor Yang Gao pushes
the boundaries in space robotics





Welcome

FROM THE

Vice-Chancellor

I am in a privileged position as Vice-Chancellor to be able to meet alumni across the world and I am constantly impressed by the fantastic contribution that our graduates are making to society.

Surrey graduates include leaders in global companies, successful entrepreneurs, BAFTA and Oscar awards winners, and inventors whose breakthrough research has transformed our lives.

This year we had a record number of nominations for our alumni awards. Our 2018 winners have made outstanding contributions to their communities and professional fields, and you can read their remarkable stories in this issue.

There's a real energy, momentum and ambition to Surrey and our strength is in our people – from our successful alumni to our dedicated staff and talented students. This year our pioneering research into nutritional science has been recognised by the Queen's Anniversary Prize, the highest accolade for any academic institution. Our researchers have uncovered new links between diet and preventable disease, and brought about major changes in government policy.

Our alumni and friends are our greatest champions – whose support and giving play an invaluable part in our growth. We are extremely thankful for the generous donations made to The Chancellor's Appeal, launched to celebrate our 50th anniversary.

Your contributions are creating real opportunities for our students – from funding vital bursaries for professional training placements to ensuring they have access to exceptional teaching facilities. A recent generous gift from the Fluor Foundation has upgraded our famous pilot plant, which gives students experience of running a real chemical production process.

Legacies have a profound and lasting impact on current and future generations of students. One such bequest is that from Kenneth Longhurst, whose wish was to enhance the facilities and resources for our Veterinary Medicine students to equip them to succeed and make a real difference as 21st century vets.

Our new University strategy sets a clear direction for the future to deliver agile and sustainable growth to become a leading global university. Underpinning the strategy are five core values: respect, ambition, collaboration, integrity, and excellence. As we move into the next 50 years of the University of Surrey, these values will guide us to success.

Our alumni, friends and partners have always been and will always be a vital part of our story. Thank you for your continued support.

Professor G Q Max Lu AO DL FAA FTSE
President and Vice-Chancellor

Contents

| | |
|------|---|
| ► 04 | University news |
| ► 09 | 5 minutes with Dr Suze Kundu |
| ► 10 | Beyond human limits |
| ► 14 | Scholarships that advances Alzheimer's research |
| ► 16 | Welcome to Bollywood |
| ► 18 | Student entrepreneurs mean business |
| ► 20 | Kick-start a student's career |
| ► 22 | Opinion - refute or remedy |
| ► 24 | The Big Picture – a different view |
| ► 26 | Living lab to boost research innovation |
| ► 28 | Meet our inspirational alumni |
| ► 34 | What's on your bookshelf? |
| ► 35 | Surrey's queen of the arts |
| ► 36 | The science of eating well |
| ► 40 | Alumni news |
| ► 45 | Class notes |

Forever Surrey

Editor: Rona Cheeseman

E: foreversurrey@surrey.ac.uk

T: +44 (0)1483 683776

Photography: University of Surrey, Diem Photography, and Getty Images (pages 4, 5, 6, 7, 23, 36, 39, 42)

General enquiries:

E: alumni@surrey.ac.uk

T: +44 (0)1483 683143

Don't forget to update your details if you move house or change your email address, via the Surrey alumni email or online at www.surrey.ac.uk/form/webform-72021

Join the conversation:

Like us on Facebook, follow us on Twitter and Instagram and join one of our LinkedIn groups – we offer subject-specific groups as well as the main alumni one:

facebook.com/surreyalumni

twitter.com/surreyalumni

instagram.com/surreyalumni

linkedin.com/groups?gid=41419

Advancement

University of Surrey
Guildford
Surrey GU2 7XH
UK

►►► News



► ONE IN TEN HAVE DRUG TRACES ON THEIR FINGERPRINTS

Scientists have found that drugs are now so prevalent that more than one in ten people taking part in a test were found to have traces of class A drugs on their fingerprints – despite never using them.

Analysing the chemical composition of sweat, Surrey researchers were able to tell the difference between those who had been directly exposed to heroin and cocaine, and those who had encountered it indirectly.

Dr Melanie Bailey, Lecturer in Forensic Analysis, said: **“Believe it or not, cocaine is a very common environmental contaminant – it is well known that it is present on many bank notes. Even so, we were surprised that it was detected in so many of our fingerprint samples.”**

Researchers tested the fingerprints of 50 drug-free volunteers and 15 drug users who testified to taking either cocaine or heroin in the previous 24 hours.

Around 13 per cent of fingerprints were found to contain cocaine and one per cent contained a metabolite of heroin (a substance made or used when the body breaks down the drug eg fat or muscle tissue). Scientists set a cut-off point for their measurements to distinguish between a ‘normal’ level of environmental contamination and the level resulting from actual drug use.



► CROWDFUNDERS BACK THE BIKE SCHEME

The University has launched a new bike share scheme this summer, with future plans to include Guildford town centre. The initiative was prompted by the Santander Cycles University Challenge, a national crowdfunding competition that gives universities a chance to develop their own bespoke cycle hire scheme.

Surrey’s crowdfunding efforts raised £69,906, achieving 4th place overall and resulting in a £75,000 cash prize from nextbike, the European leader of bike share schemes. The campaign received a further £25,000 boost from the University, and 50 bikes and docking stations will soon be installed across our two campuses.

► EYESIGHT LOSS AND DEMENTIA LINK



A Surrey researcher has been awarded one of the first ever Primer Fellowship Awards from Fight for Sight, a leading UK charity dedicated to pioneering eye research to prevent sight loss and treat eye disease, in partnership with The Royal Society of Medicine.

Dr Marianne Coleman will receive a £60,000 grant to undertake research on pupil function and depth perception for people living with dementia, and investigate if changes are linked to the progression of the condition. If a connection is identified, simple tests of pupil function and depth perception could be used in the future as alternative ways of monitoring the disease.

Dr Coleman said: **“Some types of sight loss are more common among people living with dementia. The eyes are a window into our brain, so if we find that these simple tests do link with changes in memory or how the brain looks on a scan, these non-invasive tests could be a different way of monitoring progression of dementia.”**

► SPACE JUNK MEETS IT MATCH

Surrey is heading up a project that could revolutionise the way we deal with the estimated 40,000 pieces of space junk orbiting the earth.

The RemoveDEBRIS mission, a consortium of space companies led by the University and funded by the European Commission, is conducting a series of experiments to demonstrate cost-effective technologies that can be used to observe, capture and destroy space debris.

RemoveDebris has its own space junk on board – small research satellites that will be released into space and recaptured by net. It will also fire a small harpoon at a target plate to see if the technology can accurately work in the weightless environment – the first harpoon capture in space. At the end of the mission the spacecraft will deploy a dragsail to change its speed to ensure it burns up as it enters the atmosphere.





Professor Max Lu

► VC JOINS PRIME MINISTER'S COUNCIL

Vice-Chancellor Professor Max Lu is one of five new appointees to the Prime Minister's Council for Science and Technology (CST).

Bringing together a prestigious group of experts and sectoral leaders, the CST advises the Prime Minister on strategic science and technology policy issues and helps the government set priorities in these areas.

A world-renowned chemical engineer and nanotechnologist, Professor Lu said: **"I am honoured and privileged to join the Prime Minister's Council for Science and Technology. This provides an opportunity for me to contribute to the UK's global leadership in scientific research and innovation at the strategic level."**

► EU STUDY ON WOMEN ENTREPRENEURS

Two academics have been given €195,000 from the European Union to help female entrepreneurs break the glass ceiling in the tourism industry.

Professor Allan Williams and Dr Cristina Figueroa Domecq will work in collaboration with Dr Albert Kimbu and Dr Anna de Jong, who are all members of the School of Hospitality and Tourism Management.

Cristina will analyse the different paths women entrepreneurs in Spain and the

UK take – working closely with a number of policy and industry bodies in both countries. She said: **"There were just 29 per cent of female entrepreneurs in Europe in 2012, but this represented a one per cent decrease from 2008. We believe that in tourism, only one third of entrepreneurs are women. I am hoping that this project will help us understand what is happening and why there seems to be a barrier to entry for women in tourism."**



Professor Ravi Silva

► BIG INVESTMENT IN SMALL MATERIALS

A new £4m hub to manufacture smart materials and self-powered electronics is being established at the University.

Later this year, Surrey will open a nano-manufacturing hub that will produce plastic nanoscale electronics, such as wearable sensors and other wireless technologies, to develop 'internet of things' devices for smart homes, smart cities, and smart factories.

Co-developed with Qinetiq and the National Physical Laboratory, the new facility will include a Nanoscale Offset Printing System that can print metals,

organic and inorganic materials, polymers, and nanoscale structures and circuits down to 25 nanometers (smaller than a human hair), without requiring a multi-billion-pound nanofabrication facility.

Professor Ravi Silva, Director of the University's Advanced Technology Institute and the new hub, said: **"This exciting project will develop new technologies and techniques to make the dream of a fully wireless smart home or smart factory commonplace in the UK."**

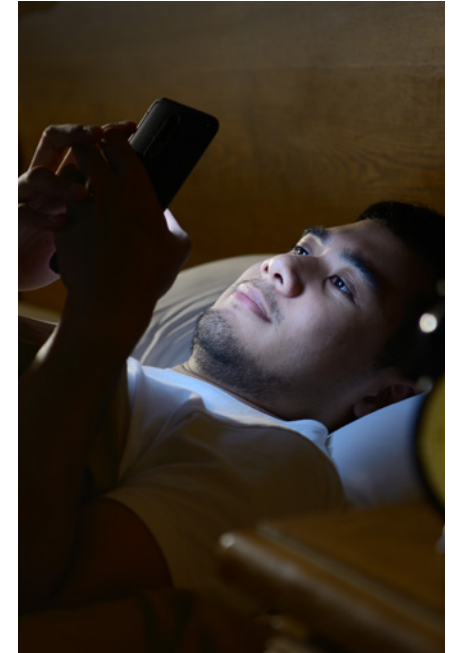
► NIGHT OWLS HAVE HIGHER RISK OF DYING SOONER

'Night owls' – people who like to stay up late and drag themselves out of bed in the morning – have a higher risk of dying sooner than 'larks', those who have a natural preference for going to bed early and rising with the sun.

The research, by Surrey and Northwestern Medicine in Chicago, looked at nearly half a million people in the UK Biobank Study and found 'owls' have a 10 per cent higher risk of dying than 'larks'. In the study sample, 50,000 people identified as owls were more likely to die in the 6½ -year period sampled.

Scientists found owls had higher rates of diabetes and psychological and neurological disorders.

"This is a public health issue that can no longer be ignored," said Malcolm von Schantz, Professor of Chronobiology at the University. **"We should discuss allowing evening types to start and finish work later, where practical. And we need more research about how we can help evening types cope with the higher effort of keeping their body clock in synchrony with sun time."**



► NEW SYSTEM TO AID GIFT AID DONATIONS

Charities across the UK are missing out on millions of pounds each year due to donors not adding Gift Aid onto donations. A new process being developed by Surrey will make the transaction much easier in future.

Swiftaid will enable Gift Aid to be automatically added onto any card donation via banking apps, once a donor has signed up to the service.

The project, in collaboration with Streeva and Creditcall, is being led by Professor

Steve Schneider, Director of The Surrey Centre for Cyber Security. He said: **"As technology moves forward and card payments remain the leading form of payment, it is vital that there is a solution for attaching Gift Aid to card donations while protecting the donor's privacy. Surrey's leading research will provide the foundations for a secure and practical system to help streamline these donations."**

► CELEBRATING 30 YEARS OF ERASMUS AT SURREY

Since records began, the University has sent more than 2,000 students to study or work to another part of the EU with Erasmus funding.

The Erasmus programme was launched in 1987 enabling students to study at a higher education institution in another European Union country. In the first year fewer than 1,000 UK students participated. Since then, the programme has developed to include 28 countries in Europe and, under the International Credit Mobility stream, nearly all countries in the world.

Surrey students have studied at 115 different partner universities and worked in more than 350 different companies. We now have 50 active Erasmus partnerships, where students regularly move in both directions. In 2016/17 150 students spent a period of study and/or work in another European country, with Spain, France and Germany the three favoured destinations.

The UK will remain in the Erasmus scheme until at least 2020 with plans to continue membership after that.

► VITAL SUPPORT FOR THOSE SURVIVING PROSTATE CANCER

A new web-based support programme has been developed by Surrey researchers and NHS clinicians to reduce the psychological stress that affects men who are recovering from prostate cancer.

The side-effects of treatment, such as urinary, sexual and bowel problems and body issues, can have a negative effect on men's psychological wellbeing. Recent studies have shown that 65 per cent of

men with prostate cancer report unmet psychological needs and up to a third experience anxiety and depression. Men with prostate cancer also have a higher risk of suicide than their healthy male counterparts.

A study based on the new platform reported that men felt empowered by the programme, signalling a change of attitude in how they approach life post cancer.

Lead author Jane Cockle-Hearne, a Research Fellow at the University, said: **"Thanks to medical advances in diagnosis and treatment, increasing numbers of men are surviving prostate cancer, which is incredibly welcome. But we must act now to treat their mental health too. This new programme will enable men to get the information and support they need, as well as providing the NHS with a cost-effective way to deliver high quality health care."**



Student Ruth Carlson

► EDUCATION REGULATOR APPOINTS SURREY STUDENT TO PANEL

Civil Engineering student Ruth Carlson is having a whirlwind year. Currently on a professional training placement at engineering consultancy Mott MacDonald, she has also been appointed as the only student member on the Board and Student Panel of the Office for Students (OfS) – the new regulator set up by the Department of Education.

At the OfS launch conference earlier this year, Ruth spoke about how higher education, and studying civil engineering at Surrey, has transformed her life and opened up many opportunities. Her inspiring speech

has now been selected as the first blog post on the OfS website at officeforstudents.org.uk/news-blog-and-events/news-and-blog/my-university-journey-how-it-changed-my-life.

“

I have been given opportunities that my family links could not have provided. University gave me a level playing field and a life far from what it could have been had I not pursued higher education.

”

The University awarded three honorary doctorates in our April graduation ceremonies to those whose achievements range from outstanding scientific research, to business success and contribution to the Arts.

The awards were made to Perdita Hunt OBE DL, Director of Watts Gallery Trust, Paul Polman KBE, CEO of Unilever, and Professor Dame Anne Glover DBE, Special Advisor to the Principal at the University of Strathclyde.

Since 1966, the University has bestowed honorary degrees on those who have made a significant contribution in their field and society. They include Dr Jonny Wilkinson OBE, Professor Lord Robert Winston, and TV personalities Terry Gilliam, Sandi Toksvig, and Michael Buerk.



Perdita Hunt



Paul Polman



Dame Anne Glover

► THREE NEW HONORARY DOCTORS WELCOMED

5 minutes

WITH

►►► DR SUZE KUNDU

Suze is a researcher and teacher in the field of functional nanomaterials in Surrey's Chemical and Process Engineering Department. She is also a prominent science presenter on radio and TV, writer and keynote speaker.



What does a nanochemist do?

Nano means tiny – really tiny. Nanomaterials are, in at least one dimension, within the scale range of a few billionths of a metre, and at this tiny scale things start to behave differently to materials in bulkier dimensions. My work is focused on developing and optimising materials that can capture sunlight, and use it to split water to make hydrogen for use as a clean fuel. Burn it, and you get water again, so it is a nice sustainable cycle.

What's the best thing about your job?

The best thing is the variety, though that is also the biggest challenge. I have fallen into a world where I can do research, teach, and engage the public with the work that scientists as engineers do, whether they are school kids or parliamentarians, but finding the time and being able to justify the benefit of this work is very difficult. It's a good thing that it is so rewarding!

Who inspires you and why?

My Mum, always! A strong and independent woman who made me who I am, with Dad's help too of course. Professionally, my former colleague Prof Mary Ryan at Imperial College London's Department of Materials is a great role model, as is Prof Mark Miodownik from UCL who has been

a huge support to me and makes me want to be the best and most balanced materials scientist I can be. Closer to home, Mech Eng's very own Dr David Jesson is such a cheerleader for others, and a great friend and supporter, who also does amazing research. We need more people like these!

If you were a superhero, what would your special power be?

I recently took part in an exhibition called Cosmic Superheroes where I was done up, along with some awesome women, to actually be a superhero! My superpower was the ability to manipulate atoms at will – the ultimate dream power for a materials scientist! We would be able to create any material we like, with any desired properties. The possibilities would be endless.

How do you encourage girls to study nanochemistry or STEM subjects in general?

Getting out there and being visible is important. As the old saying goes, you can't be what you can't see. If I had been brought up in an environment where subjects had been more gendered though, perhaps I would not have gone into STEM, because I may have felt that people like me, tiny BAME unicorns, didn't belong. So, being visible and agreeing to do demo

lectures and careers talks and being on TV and radio mean that people can see someone they may be able to relate to and feel that they could belong somewhere that I belong too.

What song hits you with a wave of nostalgia every time you hear it?

So many. Though when I hear the riff to *Plug In Baby* by Muse, you don't want to be between me and the dance floor!

What's the greatest scientific discovery or invention?

Kevlar, a polymer fibre with high tensile strength (difficult to pull apart and break), which when woven together is so good at dissipating energy across the material rather than through it that it is used in bulletproof vests. It was invented slightly accidentally by an amazing chemist called Stephanie Kwolek when she was working at Du Pont. She had faith in her strange gloopy mixture and persuaded the spinner to create some fibres from it. At the time of her death in 2014, over one million bulletproof vests had been sold, so she could potentially have saved many lives. As if that wasn't heroic enough, she was also a vocal cheerleader for greater diversity in STEM. An absolute legend, and a legendary discovery.

Beyond

HUMAN

limits

Since she arrived at Surrey 14 years ago, Professor Yang Gao has been integral to Surrey's ground-breaking research in the field of space robotics. Now, as Director of the Surrey-led FAIR-SPACE programme, her work will contribute to a new era of space exploration.



Space is a very hazardous place, which means that sending astronauts into orbit is a dangerous as well as expensive business. One solution is to create space robots which can act as 'proxies' for humans, performing complex tasks in space with minimal dependency on a ground crew. This is the essence of Professor Gao's work at Surrey, and the vision of FAIR-SPACE, the UK National Hub of Research Excellence on Future AI and Robotics for Space.

Launched in November 2017, the FAIR-SPACE hub aims to establish the UK as a leading nation in the development of robotics and autonomous systems for space. The programme is funded by a £6.9m grant from the Engineering and Physical Sciences Research Council and the UK Space Agency, and includes major industry partners such as Airbus Defence and Space, and Surrey Satellite

Technology Ltd – the Surrey spin-out which is now the world's leading commercial small satellite company.

The decision to base the FAIR-SPACE hub at Surrey reflects four decades of research within the University's Surrey Space Centre and the expertise of academics such as Professor Gao, also Head of the STAR (Surrey Technology for Autonomous systems and Robotics) lab.

Professor Gao's own journey into space engineering began when she saw an opportunity to explore the potential of her PhD specialism – AI robotics. Moving from Singapore to Surrey, she took the role of Technical Lead on a European Space Agency (ESA) project which aimed to investigate whether AI technologies developed for industry could be translated to the space sector.

"This offered a unique opportunity for me," says Professor Gao. "At the time, the space industry was waking up to the fact that to make a real impact, spacecraft needed to become more intelligent. Human presence in space is massively expensive and there is a limit to what can be done remotely."

Fourteen years later, the space industry's vision is to develop advanced robots which can repair satellites, assemble telescopes and manufacture equipment, and space rovers which can survey environments and extract resources.

Professor Gao says: "Surrey's space research philosophy has always been to push the boundaries with a low-cost, miniaturised approach, and this applies very well in the space robotics area. For example, we've developed a visual perception technique which has minimised the computational power needed to sample data while retaining a good performance."

"Human presence in space is massively expensive and there is a limit to what can be done remotely.
"

Professor Yang Gao

Another concept pioneered at Surrey is 'reconfigurable autonomy' – where a robot can self-adapt and make autonomous decisions based on the environment it encounters. Like many space robotics technologies, this lends itself to other hazardous environments, and is already being used in the nuclear industry to sort and segregate nuclear waste.

Sometimes, inspiration for Professor Gao and her team comes from the natural world, such as the way insects go about their daily tasks. She explains: "A wood wasp can penetrate three metres into wood to lay its eggs using a traction movement. Emulating this technique, we've developed a new type of space drill which uses traction. This differs from conventional drills, based on rotation, which are very problematic in low gravity because of the heavy overhead load required."

These technologies are being further developed within the FAIR-SPACE hub and will be some of the building blocks for an exciting new era of space exploration. One important goal for FAIR-SPACE will be to help build the infrastructure for 'Moon Village', which the ESA aims to develop by 2030. This will be mankind's first permanent base on the Moon from which to explore scientific research, mining – and even tourism.

Asked whether it is realistic to think that humans will ever live anywhere but Earth, Professor Gao says:

"I think so. We are natural explorers and have a history of going and finding new frontiers on different continents. To me, going to space is just a natural extension of this. Our growing population and limited resources will drive us to live elsewhere – and robotics will play a big part in this journey."



Alumna's mission

TO EXPLORE THE

RED PLANET

For Abbie Hatty, who graduated from Surrey's MEng Mechanical Engineering degree programme in 2010, the idea of life on Mars is more than an interesting concept – it's the focus of her day-to-day work. As Platform Delivery Manager at Airbus Defence and Space working on the ExoMars rover programme, Abbie is helping to build, test and trial a full-scale spacecraft model in preparation for the ExoMars mission in 2020.

Abbie says that her career 'turning point' came during her Professional Training placement year which she spent at Surrey Satellite Technology Ltd.

“

It made me really believe it was a possibility to work in the space industry, and the experience on my CV made me stand out from the rest of the graduate crowd,” she says. “Without it, I think I could have been on the wrong side of the door trying to get in – instead of doing a job I love.

”

It will take nine months for the rover to reach Mars and will be Europe's first on the planet. Abbie can't wait: “I will be one of those people jumping up and down and punching the air in the control room!”

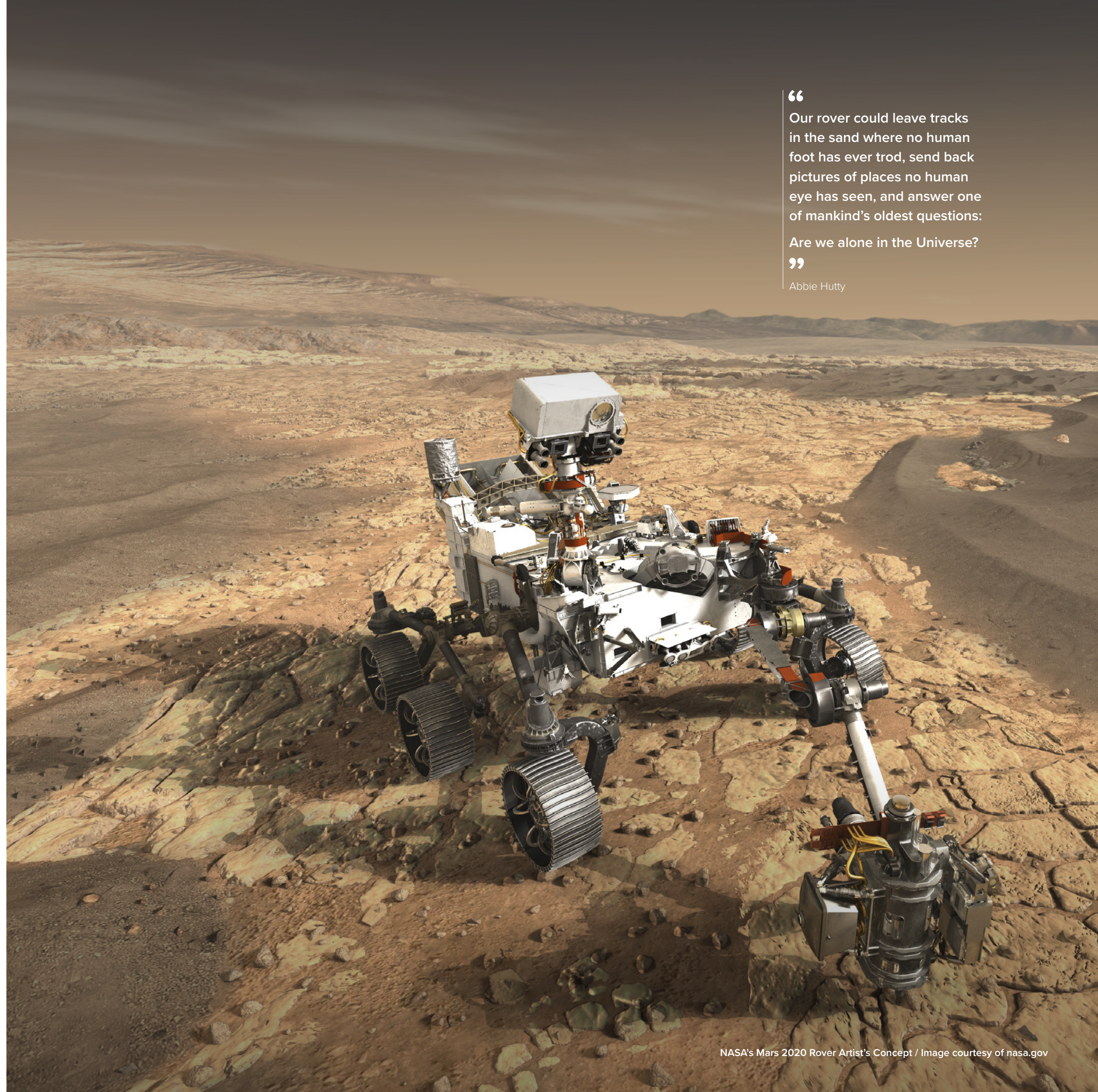
“

Our rover could leave tracks in the sand where no human foot has ever trod, send back pictures of places no human eye has seen, and answer one of mankind's oldest questions:

Are we alone in the Universe?

”

Abbie Hatty



▶▶▶ Scholarship advances Alzheimer's research

Scholarships not only benefit talented students but they can have far-reaching consequences for society as a whole – but for funding from one of our alumni and a global pharmaceutical company, vital research into Alzheimer's disease may have not happened.

Paula Oliveira is one of our PhD students furthering research into the condition and has been supported in her work by chemical engineering graduate Tony Tan and the Centre for Collaborative Neuroscience at Lilly UK (part of Eli Lilly).

By 2025, there will be one million people with dementia in the UK, according to the Alzheimer's Society, and 60,000 deaths a year are directly attributable to the condition. Health campaigners describe the challenges posed by the rise in dementia as a 'ticking time bomb'.

Developing new treatments and possible cures is paramount and Paula is researching how problems with sleep may contribute to Alzheimer's.

"We used to think that sleeping problems were a symptom of the disease, but recent studies suggest that it may be one of the causes or at least represent a risk factor," said Paula. **"I'm trying to understand what might be the mechanisms behind it."**

People with Alzheimer's often have problems with sleeping or may experience changes in their sleep schedule such as

napping during the day, being unable to get to sleep at bedtime and repeated wake-ups during the night. Working to treat sleep issues early may help protect brain health in the future.

Paula is one of a handful of people investigating this aspect of Alzheimer's and says she was thrilled to become involved. Originally from Portugal, Paula struggled to find funding in her own country and her savings were fast running out when she decided to apply for the PhD.

"This was one of the first PhDs that I saw in the UK and it was the one I really wanted," she said. **"The scholarship means a lot – I couldn't do my research without it. I am not restricted in my study as I can do experiments without limitations because I know the funding is there. I can also afford to travel to conferences which furthers my education in the field."**

Tony Tan, who graduated in 1971, has named his studentship in memory of friend and former colleague Godfrey Blott. Tony has vast experience in the healthcare industry; he is Non-Executive Chairman of Singapore Medical Group and was the founder and Managing Director of Parkway Holdings

Limited, Singapore, until 2000, and Deputy Chairman until his retirement in 2005.

Founded in 1876, Eli Lilly has developed productive alliances and partnerships to create medicines that help improve people's quality of life.

Professor David Blackburn, Head of the School of Biosciences and Medicine, said: **"We are very grateful for the funding from Tony and Lilly UK. Supporting PhD studentships is vitally important for furthering research into some of the most pressing societal issues of our time. Alzheimer's has a significant impact on the lives of people diagnosed and their families. Understanding ways to improve treatment for those affected is paramount and this research is expected to contribute to such knowledge."**

If you would like to find out more about funding a student scholarship, please visit surrey.ac.uk/alumni/giving or call +44 (0)1483 683143. As a donor to the University, you will become part of a community of supporters who together are making a real difference.



"
The scholarship means a lot – I couldn't do my research without it. I am not restricted in my study as I can do experiments without limitations because I know the funding is there. I can also afford to travel to conferences which furthers my education in the field.
"

Paula Oliveira

Welcome TO Bollywood

Think colourful costumes, elaborate make-up, and soul shaking moves and you have Surrey's Bollywood Dance Society! Started in 2016, it now has 30 members who strut their stuff every week. Music and Media student and society president Riddish Mistry tells us more.

We are all very passionate dancers from various cultures who came together to form our University team Rangeela Surrey. 'Rangeela' means colourful in Hindi and we are certainly that!

I have danced since I was little, whether it was for fun or for a performance in front of an audience. I have always loved Bollywood, be it the movies, the stories, the music, or the dance. What really attracts me to Bollywood is how we experience it – it is all about the way we are moved to another universe, relating to stories, and performing tunes that stick in your subconscious or beats that emotionally drive you through dance.

The team came together for the first time in 'Just Bollywood', a UK-wide dance competition organised by Imperial College London. We subsequently took part in a 'dancethon' by the Salsa and Bachata Society, where we taught students Bollywood and Bhangra as a fun exercise, and that's how Rangeela Surrey was born.

We run free classes for all students to enjoy themselves and find a healthy and fun escape and it has been a real pleasure to share our culture.

The most important date of the year for us is 'Battle of Bollywood', which is the world's biggest Bollywood dance competition for universities. We have won three awards

in the past, which is the most achieved by any university in the UK.

In this year's competition we were thrilled when one of the judges, Naz Choudhary, founder of 'BollyFlex' (Europe's leading Bollywood dance production company), invited us to join his classes and the opportunity to perform in his shows. It's moments like this that make all the hard work worthwhile.

And, even more exciting, is that we have been approached by a television producer to compete on an upcoming television show based on our exceptional participation in Battle of Bollywood – unfortunately I'm not allowed to say more at this stage!

Opportunities like this have opened many doors for individual dancers. A dance student was offered a summer placement with Terrance Lewis, one of Bollywood's leading choreographers, and a Vet Med student has had an internship with another renowned choreographer, Shruti Shah.

To achieve our level of success, the team has been through numerous auditions, with different students every year and more than 150 hours of rigorous training, building our team's stamina, flexibility and confidence. It feels like a long journey for the society and the team is just three years' old!

“My experience at Surrey has strengthened my aspiration to be a part of the Bollywood industry, primarily as a music producer, and continue to promote this wonderful and beautiful form of dance.”

Riddish Mistry



The Rangeela Surrey team

Student entrepreneurs

MEAN

►►► BUSINESS

A growing number of students at university aren't just focusing on their studies or their social life, but on starting their own businesses. At Surrey we're making sure our next generation of entrepreneurs get the support and encouragement they need to succeed.



Ty Hassan, co-creator of the Wiggly Line Company

“

Without the support of the University, we wouldn't be where we are and we are committed to overcoming some of the challenges of an ageing society. Healthy sleep is shown to play an important role in maintaining brain health with age, and poor sleep is a major factor in many conditions, especially Alzheimer's.

”

Ty Hassan

Budding entrepreneurs have access to a range of funding and advice, including the Cube Fund, which can provide student start-ups with a business development grant of up to £1,000, and the Propeller grant, sponsored by Santander, that allows students to test their enterprise skills or entrepreneurial activities.

Students also benefit from philanthropic support such as that from the Surrey-based Wates Family Enterprise Trust, an independent grant-making foundation, which has set up a social enterprise fund to help postgraduate researchers make their ideas reality.

Students Ty Hassan, James Lynn and Divyanshi Karmani are making the most of the opportunities Surrey offers. They have set up their own business, the Wiggly Line Company, and developed Streamcare which gives care homes access to real-time data concerning the sleep quality of their

residents. A 'smart' mat with sensors is placed under the mattress and can detect different sleep cycles and if a resident leaves their bed in the middle of the night.

“Research has shown us that many people in care homes have fragmented rest/wake patterns and suffer from chronic sleep disturbances,” said Ty, who is studying for a Masters in Entrepreneurship. **“The data Streamcare provides allows care homes to assess what factors contribute to poor or good sleep and develop personalised care for each resident.”**

Their first product is already garnering a lot of interest. It is one of three finalists in the Care Innovation Challenge, a national competition to kick-start new ideas and solutions for the care sector.

The team pitched their idea to judges from government, the care home sector and the

Guardian newspaper at the Department of Health and Social Care and presented their product to the National Care Conference Forum, receiving very positive feedback. They are now working with the care sector to develop the product.

Surrey graduate Alex Ramamurthy is CEO of The Care Workers Charity and co-founder of the Care Innovation Challenge. He said: “We spotted a need for more young people and entrepreneurial talent to enter the care sector and Streamcare is a great example of this. It will be put through an intensive roadshow and mentorship programme this year through us. I'm incredibly impressed and proud of what the team has achieved in such a short space of time around their university studies.”

wigglyline.co

Surrey start-ups

Bike Bros

PhD graduates Dimitar Kutsarov and Yousef Sadik are co-founders of Bike Bros, a bicycle repairs and sales service located on campus. They received a Student Enterprise Kick Starter award, sponsored by Santander Universities, to help get their business off the ground.

Dimitar said: **“The University encourages an entrepreneurial spirit and drive, offering a range of support services. Our shared vision for a community and environmentally-friendly bike shop brought us together, and, thanks to the grant, we've been able to pursue our passion.”**

bike-bros.co.uk

InVigorise

Health Psychology PhD student Sarah Helen King received £5,000 from the Wates Family Enterprise Trust to develop InVigorise, a health and wellbeing social enterprise, which will help individuals to eat well, move more and feel better through a series of community-based workshops.

“The £5,000 investment will cover the start-up costs and, once the business is making a profit, this will help support the company to run free workshops aimed at key target groups which are at a higher risk of developing chronic conditions, such as obesity, which can be linked to their lifestyle.”

invigorise.co.uk

Native Unearthed

Law graduate Jade Ollivierre started her natural deodorant company whilst still a student. She secured £5,000 funding from Student Enterprise at Surrey to develop her product.

“The funding enabled us to buy our first batch of stock and push money into marketing initiatives that really helped to propel the brand to where it is today – without the award, it is incredibly unlikely we would have progressed further.”

nativeunearthed.co.uk

▶▶▶ Kickstart A student's CAREER

Our Professional Training Year (PTY) placement programme is one of the largest in the world, with over 2,300 partners in the UK and overseas. These organisations provide opportunities for students to put their skills into practice and to experience a real working environment.

The PTY at Surrey has a long history, starting at Battersea with the pioneering thick and thin sandwich course, and remains a big attraction for students applying to Surrey today. The University is also distinctive as placement opportunities are available to all students from any discipline.

Of those who took part in one last year, 92 per cent of students felt the experience had made them more employable.

However, 21 per cent of placements were unpaid, which can make them inaccessible to some students and puts them at a disadvantage; in the modern workplace, internships and work placements are no longer optional but expected of today's graduates.

Isabel Bloomfield, a BA Dance student, took an unpaid placement at an arts organisation and received a bursary

to cover expenses. **“For my industry, which is very competitive and oversubscribed, employers normally want prior experience. Friends who did not do a placement struggled to get a job, and are now volunteering or have left the arts industry.”**

We want all of our students to have equal opportunities – this year we have put £100,000 into PTY bursaries, but with the support of our alumni, we can give many more the chance to take up a placement, regardless of their background.

Please help us to give our students the best start in their careers. More information about how to support can be found at surrey.ac.uk/alumni/giving.

And, if your company could offer a PTY placement and would like to find out more about the scheme, please email placements@surrey.ac.uk.



One of our Civil Engineering students on their Professional Training Year



▶ Alex's STORY

Alex Gleed, Medical Engineering student, worked at DePuy Synthes UK, a medical equipment manufacturer in Leeds.

I was based in a test laboratory, working on medical implants. As someone who hadn't had any experience it was great having 50 per cent of my time doing practical and 50 per cent desk work.

When I was offered the job I was really pleased with the salary. I was able to relocate and finance my own rented property and it enabled me to live and spend money on things that weren't food or bills. As my new home was some distance from the company, I was able to run a car too. Without this salary, I'm not sure if I could have taken the placement. I would have had to find a part-time job, but as I was working eight hours a day, Monday to Friday, this would have been difficult.

One of the biggest things I learnt was that a lot of the talented people in orthopaedics have PhDs because you need specialised knowledge to produce a durable implanted medical device. I now know I want to do a PhD. I got a huge amount from my placement.

Beth's STORY ▶

Beth Waker, Hospitality and Tourism student, worked at Lexington Catering, a specialist City of London catering company.

My placement year was one of the best of my life! I loved working in London and the company put me in lots of different sites and that gave me the skills to adapt to different situations. At every single place, I met a new team and got to work with people from the UK and Europe.

One of my managers who is a Surrey alumna really pushed me and taught me so much about contract catering. A PTY which has a connection with a Surrey graduate is great as they know what you are looking for. Now I have been in the workplace, aspects of my course make more sense!

The placement showed me that I need a dynamic, changing role with the ability to apply ideas. I really enjoyed the opportunity to be creative and will look for jobs that have this as part of the role.



Opinion

REFUTE or REMEDY



Sabine Benoit,
Professor of Marketing
at Surrey Business
School, discusses
the lessons fashion
retailers need to learn
five years on from the
Rana Plaza disaster.



A view of the collapsed Rana Plaza building on the outskirts of Bangladesh capital Dhaka in 2013

This year marks the fifth anniversary of a tragic event: the deaths of 1,134 garment workers in the building collapse of Rana Plaza in Bangladesh with 2,500 injured. It is one of the world's worst industrial accidents.

Despite cracks being found in the walls the day before the disaster, the building owners ignored safety warnings and told people to return to work.

The thousands of people in this building produced garments for Western fashion brands like Benetton and J.C. Penney, which owns department stores across America. Some brands had direct links to producers in the building, some had indirect links meaning that their suppliers or sub-suppliers sourced from companies located in the building.

Supply chain management accepts businesses like the above Western brands, called focal firms, only have control over their direct suppliers, which they have a contract with, but limited control over their various sub-suppliers in what is called a multi-tier supply chain. As a result, focal firms often 'greenwash' (using green and ethical marketing) by denying responsibility for behaviour of suppliers they do not have a direct contractual relationship with.

However, reaction to incidents like Rana Plaza indicate that consumers have a very different view on responsibilities in supply chains. This has been investigated by myself and Julia Hartmann, Professor of Sustainability from EBS Business School in Germany. Our study generated insights on which factors diminish the number of

consumers attributing blame to focal firms for supplier behaviour. This is relevant since 'responsibility attribution' leads to consumer punishment such as boycotting a company and its products.

We found that consumers attribute less responsibility to the focal firm when the incident:

- Results from *force majeure*, eg an earthquake (rather than regular supplier behaviour)
- Results from a *decision of an individual employee* (rather than from a company decision/policy)
- Is *less severe*

In contrast, consumers attributed the same amount of responsibility to the focal firm independent of:

- *Varying organisational distance from the supplier, ie whether the focal firm had a direct contract with the harmful supplier or it was an indirect sub-supplier*
- *Focal firm size – small start-ups are held responsible as much as big conglomerates*
- *Strategic importance of the supplied product*
- *Whether the focal firm had systems in place to protect the environment*

Concluding, this research found a 'chain liability effect' since from the consumer perspective the focal firm is responsible for the entire supply chain.

In a follow-up project, we investigated the 'what if' scenario and shed light on how the focal firm should handle the supplier relationship after an incident in order to repair damaged trust. The results show that emphasising that the unsustainable incident happened at a supplier or sub-supplier rather than within the focal firm did not go down well with consumers. Aiming to shift attention and blame the supplier further aggravates consumer trust in the focal firm and leads to consumer punishment, which can have disastrous economic consequences.

In contrast *rectifying activities* – those addressing the cause of the incident – helped improve consumer trust. Three main rectifying activities are common: collaboration with suppliers, monitoring the supplier or terminating the relationship. Generally, supply chain experts see collaboration as the most effective action to make a difference in the supply chain.

However, for consumers the three rectifying activities are equally effective at repairing trust. Supply chain managers can decide which option works best and adapt to the circumstances, but for sure they need to act and rectify, just shifting blame increases consumers' anger and further damages trust.

More information on Sabine and her research can be found at sabinebenoit.com and at youtu.be/juVKYuZSiOs

The **Big** PICTURE

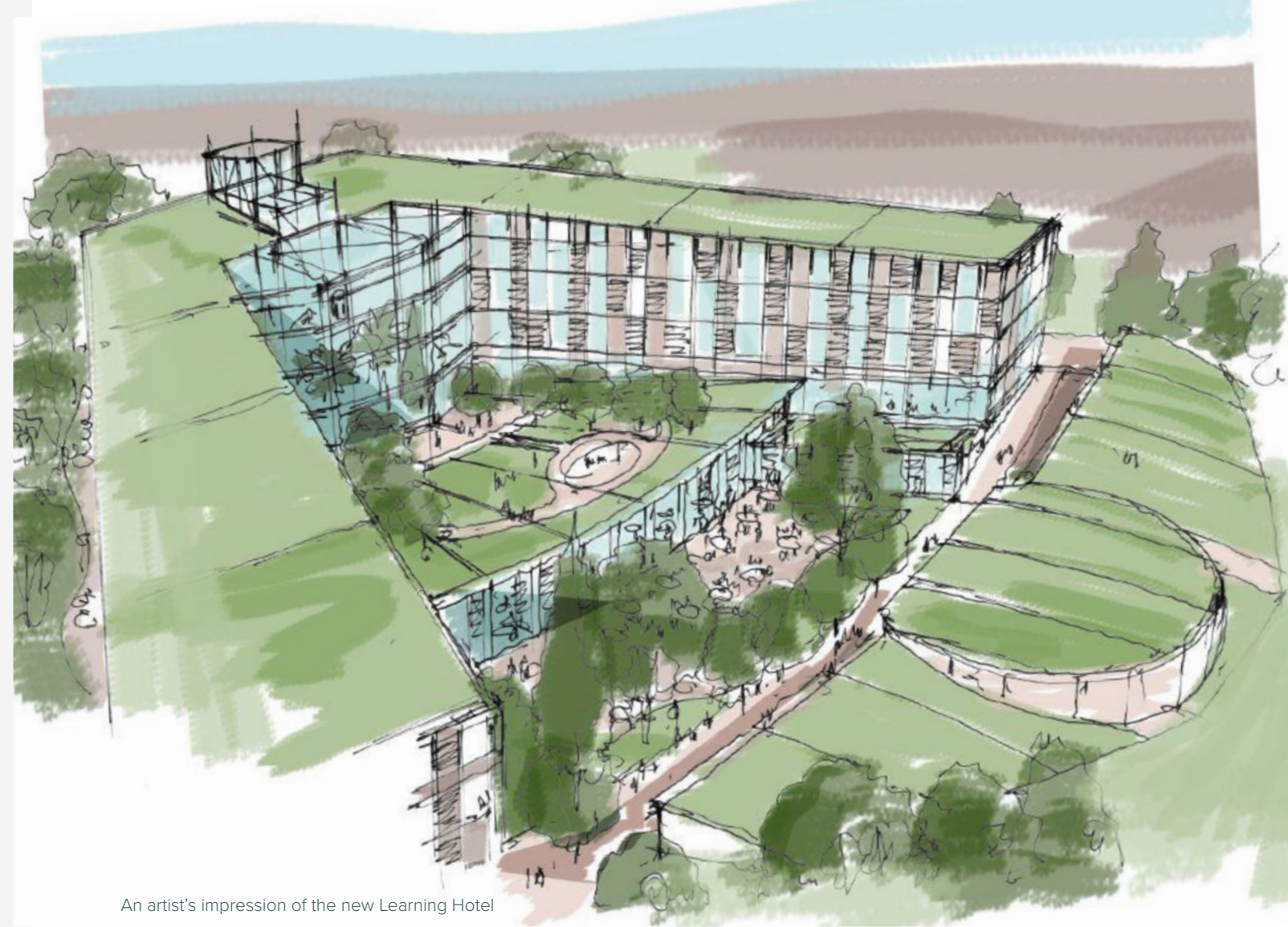
A different view of our Stag Hill
campus – but where?

Answer: The image shows the large dome sculpture next to the lake!

Image courtesy of @linfordmiles Instagram

LIVING LAB TO *boost research* INNOVATION

Our School of Hospitality and Tourism Management (SHTM) is breaking new ground with plans to develop a pioneering Learning Hotel to drive research and innovation.



An artist's impression of the new Learning Hotel



Professor Caroline Scarles

One of the world's leading schools for hospitality and tourism, SHTM is developing plans for a 175 to 200-bedroom, fully commercial hotel, along with a new academic research institute.

The Learning Hotel will give students the opportunity to gain valuable, hands-on experience of how a top-class facility functions. The hotel will become a 'living lab' for hospitality, tourism and events teaching and research, focusing on high-level academic study and research with practical experience.

Students will work with Learning Hotel staff and SHTM academics in a real-world setting to enhance both their understanding and experience of operations and how hotels are run and managed effectively.

The Learning Hotel will also provide a rich environment to drive innovation

in research. The Institute will bring together academic and industry experts from across disciplines and sectors to test near-to-market technologies, challenge today's understanding of operations and incubate alternative solutions to current practice.

Professor Caroline Scarles, Head of SHTM, said: "The Learning Hotel will enable Surrey to break boundaries in current research and teaching, and challenge the ways in which we nurture the development of future world leaders in hospitality and tourism.

"We are incredibly excited about this new project. Like everything we do at the University, we want to be forward-thinking and innovative. We believe the Learning Hotel will be a state-of-the art facility for our students, our local community and the industry world-wide."

Professor Graham Miller, Executive Dean of the Faculty of Arts and Social Sciences, said: **"Our plans to build a Learning Hotel underlines the spirit of our School – we refuse to rest on our laurels and want to continue to be one of the best places in the world for young people to gain the skills to become top-class hospitality professionals."**

The University is looking forward to formally announcing further details on the Learning Hotel later this summer.

Join us

We are looking to develop long-term relationships with people and organisations who share our vision to be a global leader in hospitality, tourism and events education and research. The Learning Hotel offers a range of opportunities – please contact Ian Larkham at i.larkham@surrey.ac.uk to learn more about how you can be involved.



Alongside the newly-refurbished training restaurant at Lakeside, the new Learning Hotel will give students real-world experience

MEET OUR

inspirational ALUMNI

Now in their sixth year, the Vice-Chancellor's Alumni Awards 2018 received the largest number of nominations ever! We'd like to thank everyone who took part – it was wonderful to read about the amazing work our graduates are doing around the world, and we look forward to receiving even more next year.

Of our 2018 awards, Professor Max Lu said: "My warmest congratulations to all of our winners who have demonstrated what it means to make an impact, and they inspire us all to make the very most of our lives and potential."

Alumna of the Year

Dr Cheryll Adams CBE

For more than 30 years Cheryll has been championing the causes of vulnerable families and their communities as a nurse, researcher and health visitor, in government and as founding director of the Institute of Health Visiting (iHV).

She is driven by her belief that every child deserves the best start in life and that health visitors are the best-placed professionals to make that happen.

"Attending to a child's health needs in the first few years of life is crucial to their future wellbeing," she says. **"Health visitors are uniquely placed in terms of their influence – who else has universal access to all children? They are in an incredibly powerful position to drive health improvement."**

Cheryll says that inconsistent NHS support for quality health visiting led to her and fellow professionals setting up the iHV in 2012 to safeguard and shape the future of health visiting and offer evidence-based guidance and professional support.

Since then the charity has created 154 iHV Fellows who act as ambassadors for the profession, trained more than 1,500 champions for perinatal and infant mental health, and created experts in safeguarding



and domestic violence. This year, the first national curriculum for health visiting education will be launched.

Throughout her career, Cheryll has always considered the bigger picture of public health which she believes is due to her Human Biology and Nursing degree. This has led her to act as a professional adviser to UNICEF, supporting the introduction of a health visiting-type role into 25 countries in Eastern Europe and Central Asia. She previously supported the government of Kazakhstan to introduce the profession there.

Cheryll said the news that she has been named as our Alumna of the Year left her feeling "flabbergasted".

"I am astonished and honoured to win the award; my three years at Surrey were extremely happy and inspiring ones. I hope this award will shine a light on our amazing health visitors who play such an important role in ensuring children have the best start in life and who have such a huge impact on the public's health."



Lifetime Achievement Award

Professor David Lane

David's contribution to the field of applied psychology is outstanding – both in terms of longevity and impact. He has been involved in innovative work to support young people and enhance developments in education for much of his working life, combined with clinical practice.

After a brief foray in banking, David realised his passion lay in youth work and education. In the 1970s, he worked on drug education programmes and, as director of the Islington Educational Guidance Centre, set up new systems to support children in school to reduce exclusions and later criminality.

"At the time kids were being sent out to be fixed, and rarely returned to school," said David, who graduated with a PhD in Clinical Psychology in 1984. **"We trained teachers and worked with children in**

schools. You soon realise that there can be a number of reasons why children are badly behaved and it's often about teaching them life skills. Some had never sat down and eaten a meal with someone and most would never stop and think before acting."

His experiences in schools highlighted the high rate of bullying that was not being addressed. With colleague Delwyn Tattum he wrote the first book on the topic in the UK in 1988. It was subsequently quoted in Lord Elton's report on school discipline and Childline added a Bully Line to its service as a result.

Throughout his career, David has held two beliefs close to his heart – to share good practice freely and to work collaboratively. An extension of this was to create the Professional Development Foundation,

which set up the first work-based learning awards with practitioners supporting each other's learning. It is also apparent in his leading research in coaching and his development of a Master's programme in Executive Coaching, which is now available in the USA, South Africa and the UK.

David said:

"It's been a fabulous career, one based on promoting ideas, giving them away and always encouraging the development of others to achieve their potential and make a difference."

Alumni Achievement Award winner

Dr Prasanna Sooriakumaran

Surgeon Prasanna Sooriakumaran, or PS as he is known, has more than a scalpel at his disposal – his tool of choice is a £1m robot that is revolutionising the care for thousands of men with prostate cancer.

A Consultant Urological Surgeon and Honorary Senior Lecturer, PS is a leader in prostate cancer surgery at University College London Hospital, the largest centre for robotic prostate surgery in the UK. He is among a handful of surgeons performing the novel operation, carrying out more than 150 robotic prostatectomies a year.

PS graduated with a PhD in prostate cancer in 2006 which has led to his vocation: “A lot of surgeons end up working in an academic area not connected to their PhD study but I developed my passion for prostate cancer at Surrey and have since been fortunate to enjoy a great career.

“I enjoy the technical challenge of removing a cancer. Robot-assisted surgery is quicker, safer and carries fewer side-effects. It is very precise and is able to work in a way our hands can’t – for example swivel 360 degrees!”



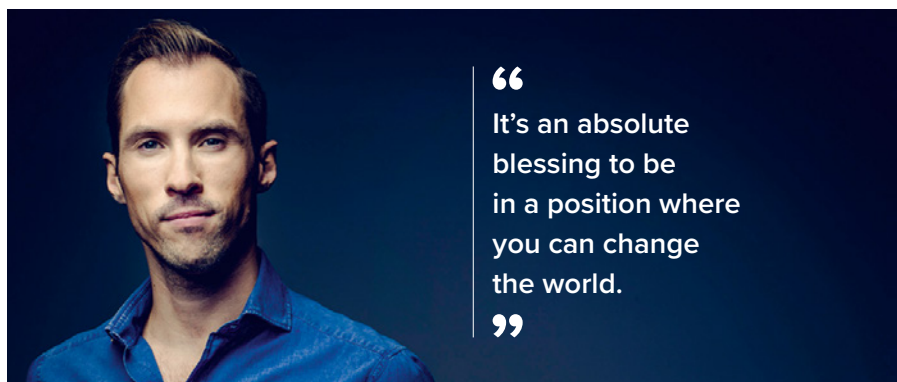
It is so rewarding to know you have saved someone’s life with a one-off procedure.”

Currently, one in six men develops a significant cancer in their lifetime and it is the most common cancer in men in the UK. PS is leading on a new trial, TRoMbone, to investigate whether removing the prostate can slow or even stop the spread of cancer in the bones – a really important trial across the globe which has the potential to benefit a huge number of men.

PS serves on national and international committees in prostate cancer and

robotic surgery, often as the only UK representative, and has published over 150 papers in the field, given more than 250 lectures, and won over 30 prizes for his contributions to prostate cancer care.

He is the only UK urologist to win a Young Investigator Award from the American Prostate Cancer Foundation for his research, and is the current recipient of the Research Scholar Medal from The Urology Foundation for his ground-breaking research into early, lethal prostate cancer.



“It’s an absolute blessing to be in a position where you can change the world.”

Young Achiever of the Year

Robert Gryn

From an adolescent starting out at Surrey in 2004 to being named the youngest self-made man in the Forbes 100 richest Poles list has been quite a journey for Robert Gryn.

At 31, he is CEO and owner of CodeWise, the second fastest growing company in Europe (FT1000), a highly profitable AdTech company that develops smart traffic and

tracking tools for performance marketers. Together with two others companies he has founded, Zeropark and Voluum, Robert has won many international business awards, including the Deloitte Technology Fast 50 and Big Five rankings in Central Europe in 2016.

He credits his degree in Entrepreneurship in Technology, as the catalyst for his future endeavours. **“Surrey was the place where I was inspired to become an entrepreneur. I moved from Poland as**

it was the only University that I knew that offered a course in entrepreneurship.”

In just six years Robert has founded three extremely successful companies but nonetheless was amazed to learn that he had made the Forbes 100 list in 2017, and says he hopes his success inspires others:

“It was an important occurrence for all the young Polish entrepreneurs, who like me, needed to see that it was possible to build a valuable start-up in Poland. However, seeing myself as a role model is difficult for me as I have something called ‘impostor syndrome’ which makes it impossible for me to internalise. However, I receive many messages from young people saying that I am a role model for them, so I do get reminded of it but it’s a fleeting realisation!”

Never one to rest on his laurels and a true entrepreneur, Robert’s next goal is to build a company with a \$1 billion valuation and says, that despite the struggles and challenges, “it’s an absolute blessing to be in a position where you can change the world”.

Young Achiever of the Year

Andrew Keates

Director, producer and artistic director Andrew Keates believes that “theatre can change the world” and he has spent his career to date striving to make that happen. Since graduating from Guildford School of Acting in 2009, Andrew co-ran the Landor Theatre for three years and has become as well known for his campaigning roles as for his acclaimed stage productions.

His stagings of *As /s* by William M Hoffman broke new ground, offering cast and audiences access to rapid HIV testing with countless post-show events exploring the issues surrounding HIV and AIDS. When Andrew took his own test he was shocked to find that it came back positive, and it strengthened his determination to continue campaigning for HIV awareness and acceptance.

“I announced my status on stage at the enormous Dominion Theatre. I thought that if someone like me was HIV positive, how many dancers and actors were putting themselves at risk? The most important message is get tested and end the stigma.”

Andrew is passionate about ensuring ethnic minorities are represented in the performing arts, and his company, Arion Productions, is dedicated to giving opportunities to those not seen in commercial theatre.

“As a young gay boy growing up on a council estate, I encountered constant homophobia and abuse. Those early experiences have made me very sensitive to injustice. Now, as a white man with the privilege of being given opportunities, my voice is listened to in a way that many ethnic and social minority groups just aren’t. The mainstream portrays a predominantly white, heterosexual, male view of the world and anyone need only look out their window to see that the world is just not like that.”

In his decade-long career, Andrew has collaborated with artists such as Howard Goodall and Martin Sherman, staged the European premieres of musical drama *Dessa Rose* and the bilingual comedy *Chinglish* and launched the career of hundreds of young artists.

“My ultimate goal is to never stop working on highly artistic productions – whether that be musical theatre or plays. I’ve really cut my teeth since leaving GSA and would hope after committing my life to this industry that I will be given a world-stage to work on such as the National Theatre, Royal Court, The Young Vic, Old Vic or The Lincoln Centre in America.”





Young Achiever of the Year

Lydia Walpole

Just eight years after graduating, Lydia Walpole has not only gone on to forge a successful career in the construction industry but has also found the time to act as an ambassador for STEM subjects and study for an Executive MBA at Surrey part-time!

A MEng Civil Engineering alumna, Lydia was the first female contractor to be selected as the Institution of Civil Engineers President's Apprentice in 2012 and, three years later, won the European Women in Engineering and Construction award for the Best Young Woman in Construction.

She is Project Manager at Costain, responsible for the development of London Underground's Paddington Station, constructing a passenger link tunnel from the Bakerloo Line to the new Crossrail Station – a role she is really proud to hold.

And it's a role that she would like more young girls to take on: "I went to an all-girls school and only two of us went into engineering. It wasn't promoted as a career choice. We need to have a diverse

workforce. When I talk to school pupils, particularly the girls, I tell them they don't need to be a genius at maths or physics just have an enthusiasm and interest in how things are built.

"I've had my own female role models as a woman engineer, and I hope I can show young girls that this is a great career."

Lydia has also taken steps within the industry to make it more female-friendly. When she started her job, only men's personal protective clothing was available – the smallest trousers were a 34in waist and Lydia had to hold them up with rope! Working with Costain and supplier Arco, she developed a new line for women from sizes 8 to 18 – an industry first.

Talking about her time at Surrey, Lydia said: **"I feel that there was a culture where you could achieve anything you wanted to: the sky was the limit. I've carried this on into the workplace. Every day brings a new challenge, and I get to work with teams of fantastic people across the globe on really exciting engineering projects."**

Volunteer of the Year

Nick Amott

A passion for training tomorrow's chemical engineers has led to one of our alumni playing a pivotal role in developing the University's facilities so we can continue to produce highly trained, well-educated and professional graduates.

Nick Amott, who graduated in Chemical Engineering in 1978, has worked at engineering and construction company Fluor for more than 35 years and is a Royal Academy of Engineering Visiting Professor at the University. A strong advocate for the Chemical and Process Engineering Department, he has played a big part in forging our longstanding relationship with the company.

As an ambassador for Surrey, Nick has facilitated annual Professional Training Year placements, gifts totalling almost £70,000 over the last eight years, and the recent \$300,000 gift from the Fluor Foundation will have a transformational effect on our undergraduate labs, creating a flexible working space with new equipment and experiments that closely resemble industry facilities.

Nick is a firm believer in the benefits of linking education and industry: "The University is able to get a real understanding of the type of graduates needed in the industry and the skills required and we get access to a pipeline

of talented students and the opportunity to engage with a wider network of people.

"Many alumni have or still work for us as we know that we are getting engineers who not only have a strong academic record but also the ability to work in teams – this is really important to us."

"I am very committed to and passionate about Surrey and believe that together we are helping to develop the next generation of engineers."

"I've had my own female role models as a woman engineer, and I hope I can show young girls that this is a great career."

"

Lydia Walpole



What's on your bookshelf?



We asked Jim Al-Khalili, Professor of Physics and Public Engagement in Science, to tell us about five books on his bookshelf. Jim has recently been elected Fellow of the Royal Society for his work on the neutron halo, as well as his dedicated service to public engagement. He also presents *The Life Scientific* on Radio 4 and has fronted a number of radio and television documentaries.

► Slaughterhouse-Five (Kurt Vonnegut)

For some reason I got round to reading this classic novel recently. It is a hugely powerful anti-war sci-fi novel about one man's reluctant recollections trudging through Germany towards the end of World War II. It's full of jumps through time and not told in chronological order. It's also full of very quotable philosophical observations that touched me profoundly.

► Human 3WW.0: Being Human in the Age of Artificial Intelligence (Max Tegmark)

Artificial Intelligence is developing so fast at the moment that I have a genuine concern that society hasn't engaged in enough debate about its implications beyond the headline-grabbing superintelligence taking over the world, as in Skynet in the *Terminator* movies, or the worries about AI taking our jobs. So, this recent book by the Swedish-American physicist Max Tegmark is a must-read. I have only recently

started it and so it is technically not on my bookshelf but in my bag, and gets pulled out on train journeys.

► Many Worlds? Everett, Quantum Theory and Reality (edited by Simon Saunders *et al*)

OK, this one is heavy going. It is a 600+ page monograph on the latest thinking on the meaning of quantum physics with contributions from some of the most influential scientific thinkers in the world today. Hugh Everett was an American physicist who came up with the Many Worlds Interpretation of quantum mechanics, which describes the strangeness of the subatomic world as the result of overlapping parallel universes. But this is a proper physics textbook and not science fiction.

► Secularism: Politics, Religion and Freedom (Andrew Copson)

I served for three years as president of the British Humanist Association (now Humanists UK) and found it

tremendously rewarding. This secular organisation promotes a rationalist, secular and evidence-based ideology and tries to ensure that no privileges or preferential treatment are given to people or organisations, whether religious or not, in society. In the face of rising religious extremist ideologies I feel a book like this is vitally important, and Copson is a brilliant and persuasive writer.

► Ce que la science sait du monde de demain (Jim Al-Khalili ed.)

Yeah, yeah, I know, one of my own books! But in fact, I'm very proud of this, the first of my books to be translated into French. They have appeared so far in 24 other languages, but France has traditionally been quite a hard nut to crack. The publishers have sent me a dozen copies of this book which only appeared a few weeks ago and so if we're talking about books on my shelves, well these are taking up a lot of space until I can offload them on French-speaking colleagues and friends.

Surrey's

QUEEN OF

the

ARTS



Meet long-serving University Arts Administrator Patricia Grayburn MBE DL. Awarded an MBE in 2004 for services to the arts, Patricia will have worked at Surrey for 35 years this September. Curator of the University's art collection, we asked Pat to pick her favourite three sculptures from the amazing public art on campus.

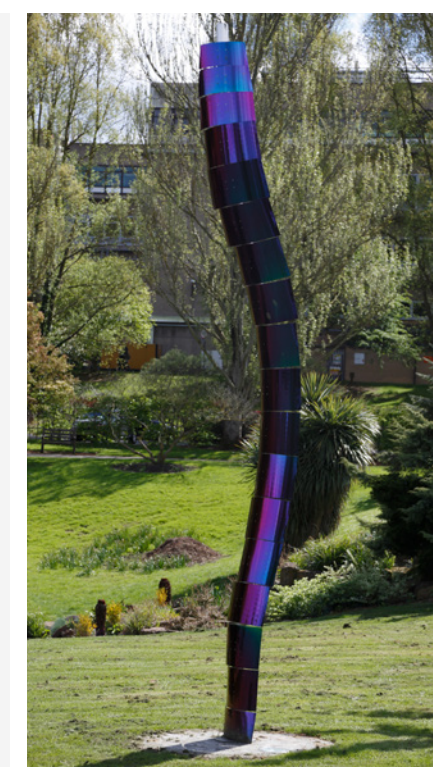


The Stag

Picking just three sculptures is certainly a difficult task, but for my first choice, I must opt for The Stag by Allan Sly, standing prominently at the entrance to the University. It is his stylised interpretation of the University crest and now adorns many of our publications. He was also responsible for The Surrey Scholar in Guildford High Street, voted the town's favourite sculpture.

Knife Birds

For my second choice, I am extremely fond of the first work we bought under the Per Cent for Art scheme: Knife Birds by Bridget McCrum, inspired by African tribal knives she saw in the British Museum. Cast in bronze and unveiled in 2004, like much of her output it spans the gap between figurative work and abstraction. Carefully sited on the Piazza by Bridget, the space between the two elements is as important as the elements themselves.



Spine

My third choice would be Diane Maclean's Spine by the lake, made as a memorial to her surgeon father. Not only does it have the most attractive curve but the hues of the stainless steel change according to the light and reflect the surrounding trees. I have seen students dancing round it and grasping it in photographs.

The University of Surrey has an open campus, and we encourage visitors to enjoy the public art on display. For more information, visit: surrey.ac.uk/visit-university

THE SCIENCE OF *eating well*

Winning the highly prestigious 2017/2018 Queen's Anniversary Prize for our research into 'Food and Nutrition for Health' is the result of tremendous teamwork over five decades, with our alumni playing a vital role.

“
In the 21st century we still have people who go hungry while so much food is wasted. Addressing that imbalance is what will continue to spur us on.
”

Professor Sue Lanham-New



THE QUEEN'S
ANNIVERSARY PRIZES
FOR HIGHER AND FURTHER EDUCATION
2017

This highly coveted honour is awarded every two years by the Queen in acknowledgement of world-leading research and teaching.

Professor Sue Lanham-New,
Head of the Department of
Nutritional Sciences, said:

“This is the first time the Queen's Anniversary Prize has been given in the field of nutritional sciences, so the University's success has really raised the profile of the whole discipline. It has given us a fantastic boost here at Surrey, but has also filtered through to many other organisations.”

The World Health Organization estimates that 60 per cent of the global disease burden could be prevented by improving diet and, in the UK, conditions such as Type 2 diabetes and cardiovascular disease account for tens of thousands of avoidable deaths every year. Addressing this – one of the world's biggest challenges – has been the focus of Surrey's nutritional science research for 50 years.

Surrey's research, led by our Department of Nutritional Sciences and the Food, Consumer Behaviour and Health (FCBH) research centre, has not only brought about major changes in government policy but – just as importantly – helped to transform consumer perception, encouraging us all to make healthier choices about what we eat.



It was Surrey's research on dietary fats and heart disease which dispelled the myth that eating eggs could increase our level of blood cholesterol, putting us at risk of cardiovascular disease. Thanks to this research, the strict consumption limits imposed on eggs – a fantastic source of lean protein – were lifted.

Other projects have demonstrated the importance of fruit and vegetables to healthy bones, highlighted the role of resistant starch in Type 2 diabetes prevention, and developed innovative technology to trace how fats are metabolised in the body.

Research into front-of-pack food labelling by Surrey's FCBH centre has led to the introduction of 'traffic light' colour coding and Guideline Daily Amounts featuring on packaging, helping consumers to make healthier purchasing decisions.

Alongside this research, Surrey has trained around 1,800 dietitians and many registered nutritionists via its highly respected undergraduate degree and Master's courses. The University is currently ranked number one in the UK for nutrition by both *The Times* and *The Sunday Times Good University*

Guide 2018 and the *Complete University Guide 2018*.

Many alumni have gone on to become leaders in the field of nutrition across the NHS, public bodies and industry, while others are now training the next generation of nutritional experts, including seven of our current academic staff at Surrey. In fact, with three alumni leading diet and nutrition courses at other UK universities, Surrey graduates head up 44 per cent of degree programmes in nutrition in England!





Professor Sue Lanham-New (centre) and the staff from Nutritional Sciences

Asked what is behind her Department's far-reaching impact across both research and teaching, Professor Lanham-New says:

“I think it's the community we've created here and the collaborative nature of the campus. Staff are very committed to students, and students really feel that they always have a home with us, even after they graduate – we are always delighted to see them and hear about their achievements.”

Having won the Queen's Anniversary Prize, the Department of Nutritional Sciences has set its sights firmly on the next challenges. “Our next big drive is to try and raise funds for a Food Innovation Centre from which we could offer healthy eating demonstrations for the general population,” explains Professor Lanham-New. “We'd like to put more force behind our public engagement work and bring in local schools, working particularly with children from low-income families.

“We live in a world where half the population dies because it doesn't eat enough and the other half dies because it eats too much. In the 21st century we still have people who go hungry while so much food is wasted. Addressing that imbalance is what will continue to spur us on.”

SURREY'S RESEARCH HAS:

- ▶ Dispelled the myth that dietary cholesterol increases blood cholesterol, which has resulted in removing restrictions on egg consumption
- ▶ Improved our understanding of the impact of vitamin D on bone health, in particular with research into ethnic populations
- ▶ Led to changes in policy for military training and nutrition provision through our work with the MoD and Institute of Naval Medicine in Gosport
- ▶ Prompted reformulation of pregnancy supplements by demonstrating the link between iodine deficiency in pregnant women and lower IQ and reading ability in their children
- ▶ Proved that 'fast' diets such as the 5:2 diet clear fat from the blood quicker than other calorie restriction programmes, reducing an important risk factor for cardiovascular disease



WHERE ARE THEY NOW?

Here are just a few of our distinguished alumni:

- Surrey academic **Dr Jacki Bishop**, author of the original *Manual of Dietetic Practice*, the most widely-used textbook in its field
- **Professor Judy Buttriss**, Director General of the British Nutrition Foundation
- **Professor Julie Lovegrove**, Professor of Human Nutrition, University of Reading
- Consultant Gastroenterologists **Dr David Lloyd** (Hampshire Hospitals NHS Foundation Trust), **Dr Sheldon Cooper** (University Hospitals Birmingham) and **Dr Chris Mountford** (Newcastle Upon Tyne) – all winners of the Yakult Prize for nutritional medicine
- **Linda Scott**, founder of 'Mothers for All', aimed at improving the lives of people affected by HIV and AIDS in Botswana and South Africa
- **Aidan Goggins** and **Glenn Matten** – authors of *The Health Delusion*, winner of the 2013 Medical Journalists' Association award for best consumer health book
- **Chris Cheyette**, author of the best-selling *Carbs and Cals* range of books and award-winning app

“Deciding to study nutrition and dietetics at Surrey and later to undertake a PhD are two of the best decisions I have ever made. These degrees opened doors I didn't know existed and set the scene for a stimulating and rewarding career. I also met my husband at Surrey and established a network of life-long friends.”

”
Professor Judy Buttriss

Alumni

NEWS

► RAIL TRIP FRIENDSHIP

A single train journey to Surrey more than 30 years ago has led to an enduring friendship for two Surrey alumna who have both ended up teaching at the University of Malaya in Kuala Lumpur.

Yasmin Othman and Jenni Harikrishna (née Kirkham), who studied Microbiology in the early 1980s, met on their first trip to the University:

“We struck up a conversation and discovered that we were interviewing at the same University for the same degree course. We also shared a train carriage on the way back to London and both agreed that Surrey had impressed us and that the Microbiology faculty was not only impressive but friendly.”

A few months later, Jenni and Yasmin were class mates, lab partners and had started their life-long friendship. Over the years following graduation, each developed

their scientific careers. Yasmin returned to Malaysia to complete her MSc before coming back to the UK to complete a PhD in Plant Virology. Meanwhile, Jenni completed her PhD in Molecular Genetics and met her husband, Hari, who happened to be Malaysian.

Fast forward many more years and we see Jenni and Yasmin as senior faculty members and colleagues at one of the top universities in Asia. Jenni is a Professor of Genetics and currently the Director of the Centre for Research in Biotechnology for Agriculture, while Yasmin, a Professor of Microbiology, is Associate Vice Chancellor (Industry and Community) and Director of the University of Malaya Centre for Innovation & Commercialisation.

They both said:

“We have gone a long way, and are proud to be Surrey graduates!”



Yasmin (right) and Jenni as Surrey Microbiology students in 1982



Yasmin and Jenni in University of Malaya ceremonial robes

► SURREY CONNECTIONS #SURREYLOVESTORIES

What better time to celebrate the love found at Surrey than on Valentine's Day. This year on our Facebook page we shared the heart-warming story of Maria Teresa San Miguel and her husband Liam Marsh. The two met on the first day of University when they were placed in the same house at Stag Hill Court. Seven years later, surrounded by their best friends and former housemates, they tied the knot, and most recently welcomed a new member to the family, little Mérida!

Maria and Liam's story led to an overwhelming response as countless others shared their own tales of meeting their partner at Surrey: as housemates, team mates, course mates and friends of friends. Love was in the air as photos of graduations, weddings and family portraits filled the comments section.

What a delight it was to hear that the University of Surrey brought so many people together.



Maria and Liam on their wedding day, picture courtesy of Zoe Warboys Photography



And Mérida makes three

► TONMEISTER WINS AMERICAN TV AWARD



Sam Okell

Congratulations to Surrey graduate Sam Okell who has won an Emmy for outstanding sound mixing for his work on *The Beatles: Eight Days A Week - The Touring Years*, directed by Ron Howard.

Sam graduated from our Tomeister (Sound and Music Recording) degree course in 2002 and has also won multiple Grammys for his work as a recording engineer and mixer.

While at Surrey, Sam took a placement year at Abbey Road and made such a good impression that he was taken on full time after graduating. He says that the best thing about being an engineer at Abbey Road is being able to work in some of the greatest recording rooms in the world with some of the most talented

musicians, as well as an awesome collection of classic and custom-made vintage gear:

“This is the stuff that only a few engineers get their hands on...the variety and range of projects is really special, from film scores and orchestras, to bands and remixing some of the classic albums of all time!”

The 2016 documentary film focuses on The Beatles' career from their performances at the Cavern Club in Liverpool to their final concert in San Francisco in 1966.

Watch Sam talking about how his Tonmeister degree helped shape his career at [youtube.com/watch?v=wuEGliqCMec](https://www.youtube.com/watch?v=wuEGliqCMec) (1.29 minutes into the film).

► BREAKING BOUNDARIES TO DEVELOP NEW CANCER TREATMENT

Dr Shakardokht Jafari is a woman on a mission. When her father was dying from cancer, Shakar promised him she would dedicate her life to help rid the world of the disease. During her PhD research on Radiation and Medical Physics at the University, she was shocked to learn of the 50 per cent failure rate of cancer treatment and the lack of appropriate quality control during radiation therapy.

Shakar focused on finding a solution that would improve the quality and precision of radiation therapy as a treatment for cancer. She invented a high performance dosimeter which can be inserted into the patient and positioned across the tumour and surrounding tissue to measure the level and spread of radiation. She also designed the associated automated reader which, after treatment, reports the results in around 15 minutes. Clinicians can then compare actual dose versus planned dose and adjust the next dose accordingly.

In the last year of her PhD, 2015, Shakar founded TRUEinvivo LTD. The company's

goal is to make its research available worldwide and to have a positive impact on people's lives. When Shakar was thinking of how to measure radiation, she was determined to find a solution that was affordable and applicable, even in Afghanistan, her home country. She said: **“We have such advanced technology that anything is possible! It's just a matter of believing it will make a difference and applying it in new ways.”**

Yet Shakar is not only driving change in the medical world. She is a positive role model for young girls in other countries who have to fight for their education, as she did. In order to pursue her education, Shakar had to cancel two arranged marriages and was alienated by her family. But nothing was going to stop her going to university: she even spent her hours after lights-out studying in the toilet when all family members were living in one room in Iran.

Through sheer resilience and perseverance, Shakar persuaded her family to believe in the possibility of a

different life for her and women like her. Shakar's journey enabled her sisters to continue on to university and have the freedom to choose their life partner, and she is delighted that girls in her home village are now staying at school and receiving a full education.



Dr Shakar Jafari

SPOTLIGHT *on* GSA ALUMNI

If you have been up the West End to catch a show, it's very likely that you watched one of our talented graduates from Guildford School of Acting (GSA).

Our alumni are highly sought after and they are snapped up by the profession as soon as they graduate, following in the footsteps of famous GSA graduates Brenda Blethyn, Michael Ball and Tom Chambers to name just a few.

Here's a round-up of the latest success stories.

► ROYAL ROLE

Michael Jibson is wowing audiences as King George III in the ground-breaking musical *Hamilton*, and scooped up an Olivier Award for Best Supporting Actor.

Michael graduated in 2002 from the BA Musical Theatre course and went straight into the West End in the lead role of Joe Casey in *Our House* for which he was also nominated for an Olivier Award for Best Actor in a Musical.

When asked how he felt about winning an Olivier award, Michael described it as **"the most surreal experience I've ever had"** and that he was **"chuffed to bits when he got the part"**.



Michael (right) with his Laurence Olivier Award and Giles Terrara who won the Best Actor award for the same production, picture courtesy of Pamela Raith



Michael as King George in *Hamilton*, picture courtesy of Matthew Murphy



Cellen Chugg Jones

► OPENING MOVE

Cellen Chugg Jones, who graduated in 2013, was thrown into the spotlight on the opening night of *Chess* at the Coliseum when he had to take to the stage as understudy to Tim Howar whose wife went into labour halfway through the performance.

He took over the role of Freddie Trumper despite never having completed a full-cast rehearsal. He won a standing ovation and praise from co-stars Michael Ball and Alexandra Burke, who both said he **"smashed it"**. Jones described the moment as:

“

The single best moment of my life.

”

► THE WEST END CREW

We have many more GSA alumni also appearing in the West End:

- Three graduates opened in *The King and I* in July at the London Palladium: Alistair So is cover Lun Tha, Kamm Kunaree is cover Tuptim and Cletus Chan is in the Ensemble.
- Annie Southall has joined the cast of *Mamma Mia!*
- Kobna Holbrook-Smith, a member of the GSA Advisory Board, is delighting audiences as Ike Turner in *Tina, The Musical*.
- We have five graduates in *Kinky Boots* – Jed Berry, Suzie McAdam, Anna Stolli, David Haydn and Hannah Price.
- Chris Bennett is appearing in *Strictly Ballroom* at the Piccadilly Theatre.



► FESTIVAL SUCCESS

Third-year Musical Theatre students also made the headlines when they appeared in Hong Kong at the British Government's Great Festival of Innovation, singing two sets in front of an invited audience that included ministers and dignitaries. They also appeared at a University of Surrey alumni event in Hong Kong.



► MUSIC MAN

Eric Crees has been at the forefront of the orchestral and brass worlds since he left Surrey in 1973, with a BMus. Having worked extensively with the Philip Jones Brass Ensemble as a student, he immediately joined the London Symphony Orchestra after graduating where he spent 27 years.

In 2000, he was appointed Section Principal Trombone at the Royal Opera House, where he continues to play to this day, having performed with countless of the world's leading artists. Eric has an impressive list of arrangements, recordings and film soundtracks to his name, including (but certainly not limited to!) the iconic *Star Wars*, *Harry Potter* and *Lord of the Rings* series, as well as *Superman* (I & II), *Raiders of the Lost Ark* and *Aliens*; the most recent being the much-loved *Paddington II*.

He has been a director of the London Symphony Orchestra Brass, the Royal Opera House Brass Soloists, the Guildhall Brass, and his own ensemble, The Symphonic Brass of London, making nine highly acclaimed CDs.

Throughout his years of success, Eric has continuously passed on his passion, experience and expert knowledge to students. He has taught at the Guildhall School of Music & Drama since 1977, and, in 2014, was awarded Conferment of Title to Professor. This acknowledged his national and international standing and outstanding contributions in performing, recording, arranging, composing, the publishing of scholarly editions, teaching and academic leadership.

With over 40 years of experience in orchestra, Eric Crees is the epitome of that age old adage 'love what you do, and do what you love'.

► IN BRIEF

Rachael Featherstone
(MA Creative Writing 2015)

Rachael's debut novel *Puzzle Girl* was named as one of the top ten best novels of 2017 by black British writers. Rachael has also had short stories published in Writers' Forum, Scribble and Writing Magazine, and has taken part in a number of writing festivals and events, including the Surrey New Writers Festival, the Winchester Writing Festival, Romance in the Court, and the London Book Fair.

Pauline Shaw
(MSc Healthcare Management 2005)

Pauline was awarded an OBE in the New Year's Honours List for her role as Director of Care with The Royal Star & Garter Homes, a charity which cares for military veterans and their partners living with disability or dementia.

Christian O'Brien
(MEng Civil Engineering 2016)

Christian won the New Civil Engineer Client Graduate of the Year for 2017. Described as "an incredible ambassador for our industry" by the awards' organisers, Christian beat off competition from over 100 graduates representing 49 different companies to win the title.

Modupe Ogunyemi
(MA Communications and International Marketing 2010)

Modupe is Head of Marketing at Media24, Naspers Group, and a new app she developed, Bounce News, received the award for the Best News & Entertainment App in Africa given by AppsAfrica. The digital news app is the first of its kind in Nigeria and uses artificial intelligence and machine learning to personalise content to users' interests.

►►► Class notes

Thank you for sending through all your news – here is a round-up from decades past up to the present day. Share your updates at foreversurrey.ac.uk. We may have had to edit your submission to include as many of our alumni as possible.



1954

John Neill
(BSc Mechanical Engineering)

I worked on jet engines at Rolls-Royce in Derby and then Orenda Engines in Toronto until 1958. I studied nuclear engineering at MIT and graduated with a PhD in 1963. I then worked at General Atomic in San Diego in the nuclear engineering field until 1980 when I entered the property acquisition and management field. I began writing fiction and completed the following under my pen name Pat Muir, *Stories To Entertain You...If You Get Bored On Your Wedding Night* (1999), *The Numbers Man* (2010) and *What Happened To Flynn* (2017). All three works may be downloaded as e-books from Amazon and others.

1955

Frederick Whitlock
(BSc Chemistry)

I married Dorothy in 1959 after she attended the National Training College of Domestic Subjects and settled, first, in West Molesey and, latterly, in Ashted where we brought up three children. Two of them are married and we now have five grandchildren. We are both retired and feeling our age, slowing down and fortunately not suffering any serious problems.

1960

David Wood
(BSc Chemical Engineering)

I live in Australia in the North East of Victoria and spent most of my career as Professor at Melbourne University. When I retired, I was Dean of Engineering. I was very much involved in the internationalisation of Melbourne University and also promoted the chemical engineering profession with female students; eventually under my leadership the proportion of females studying chemical engineering at Melbourne was 50 per cent. In retirement I am heavily involved with The University of the Third Age and am teaching chemistry to senior citizen members of U3A and it is a lot of fun. In the Australia Day Honours list I was very pleased to be awarded the Order of Australia.

1970

Dr Ching Kwong Lau
(MSc Bridge Engineering)

The one-year course gave me an enriched knowledge in bridge engineering which enhanced my future career development. The most important part of my life was marrying May Kum in 1970 while at Surrey. Since 1970, I have been involving in numerous bridge projects in Hong Kong and retired as Executive Director of Maunsell Consultants Asia Ltd, now AECOM Asia Ltd, in 2016. I have been gradually reducing my workload to spend time with my family and friends, and have set up my own consultancy firm, CWay Consultants Ltd, to continue my contribution to society.

1973

Michael Charles
(BSc Mechanical Engineering)

I lived in Wey, 4th Court and Manor House during my three exciting years at Surrey. I returned to Trinidad, my home, after graduating and entered into the oil industry as a project engineer. I married Carol Bailey, who graduated in Chemical Engineering the same year. We have one son. I visited the University in 2014 and was impressed by how the physical size of the campus has grown. I have stayed in touch with class mates Rashni Shah who lives in Sydney, Australia and Pete Edwards who lives in Cardiff. I would love to make contact with Colin Holt and Mike Miles who were in my class as well.

Manuel Knight
(PG Dip Tourism Studies)

I am now semi-retired remaining in my long-time home in Washington DC, taking very occasional assignments in tourism planning and development. For years I have had a passion for travel and have been a member of the Washington Map Society, the Washington Airline Society, and the International Council on Monuments and Sites, a UNESCO affiliate of cultural heritage preservationists.



1974

Yassar Al-Tamer

(MSc Biochemistry, PhD Biochemistry 1978)

I have spent my career in the education and research field. In 2004 I established a biochemistry department in Ninevah College of Medicine and became department head until March 2010. At the same time I was the director of a scientific and consultative bureau of the college (a kind of outpatient clinic) until 2013. In June 2014 ISIS occupied Mosul. I, my family and a great number of academic fellows moved to the safe Iraqi Kurdistan region. At the beginning of the academic year 2015-2016, Mosul University and Ninevah University managed to find temporary buildings in Kirkuk, Erbil and Duhuk to assume their activities. We started the academic year in October 2015 and I was appointed as Deputy Assistant President of Ninevah University in March 2016 and stayed in this position until my retirement in January 2017, aged 70.

1977

Tony Lyttle

(MSc in Quantitative Business Methods)

My degree has stood me in good stead and I enjoyed a fulfilling career in business efficiency until I retired from that line and became a writer. I now have three novels behind me (one published, so far) and I'm halfway through a biography of my great-grandfather, WG Lyttle, who was a celebrated Ulster writer, newspaper proprietor and raconteur. My published book, *Dillon's Rising*, is a historical thriller set at the time of the Easter Rising. *The book is available via Amazon.*

Paul West

(BSc Maths)

After graduating I entered into a chartered accountancy training contract and, on qualifying in 1982, I headed off into the world of industry. I retired as financial controller from Roke Manor Research in 2013. I am now trustee, director, auditor or accountant to a number of local charities including being a trustee for the Bursledon Brickworks Museum – the challenge is to maintain the viability of the only surviving steam-driven brickworks in the country

1980

Professor Trailokya Nath Naik

(PhD Microbiology)

I joined the Indian Institute of Science, Bangalore, in 1981 and initiated research on Rotaviruses, before taking up a permanent position as Senior Research Officer and Head of the Division of Virology of the National Institute of Cholera and Enteric Diseases, Calcutta, India rising to Deputy Director and Head of the Division of Virology. I retired from the National Institute of Science Education & Research, Bhubaneswar, a teaching and research Institute of the Department of Atomic Energy, as Professor of the School of Biological Sciences. I married Mrs Sabita Naik and we have been blessed with two lovely daughters.

1981

Matthew Lloyd

(BSc Materials Technology)

After graduation I joined the Royal Navy and then joined the Fleet Air Arm. I left the RN when I married and moved to New Zealand where I acquired a Master's degree in Communications from Victoria University in Wellington. On behalf of the International Federation of Red Cross in Geneva, I created a technical team to provide voice and data communication tools and technical support, for response to major disasters globally. I am now an independent consultant in disaster response technology, in particular catastrophe communications, working currently on a project (called Serval, being piloted in Vanuatu), that permits the use of smartphones where there is no cellular infrastructure.

1982

Karen Evans

(PhD Educational Studies)

I am Emeritus Professor at UCL Institute of Education (IOE) and recently won the European Commission's Vocational Education and Training (VET) Research Award. Much of my work was undertaken in my role as IOE Professor and Chair in Education from 2001, and particularly as research professor in the Centre for Learning and Life Chances in Knowledge Economies and Societies from 2008.

1987

Michael Omotoso

(BSc Electrical and Electronic Engineering)

At Surrey, I went by the name Olu Omotoso, and Michael Olu Omotoso now. I currently live and work in Michigan, USA. I am a Business Development Manager at Dayco Products LLC. I have two kids (a boy and a girl). Wouldn't mind hearing from alumni in the midwestern US.

1990

Francois Marot

(BSc Hotel Management)

I have been married to fellow Hotel Management graduate Sam (née Zakia Abdu) since 1991, having met her at Surrey. We have been living in Mauritius since 1991 and have three wonderful sons. Four-and-a-half years ago, I became self-employed and decided to share my 30-year knowledge and experience of the hospitality industry on the customer care and service sides. Pictured is me with Sam and Sarmad Zok (CEO Kingdom Holdings Investments), who also studied Hotel Management, in 1988.

**Soledad Osorio Alva**

(Diploma: Management of Water Surveillance and Control)

In 1993 I became Director of the Environmental Control Laboratory of the General Directorate of Environmental Health – DIGESA in Peru, before joining the Ministry of Health as Director until 2013. I now work in the same institution as a professional biologist in the insect vectors born disease surveillance and control area.

1994

David Gent

(BSc German and Law)

I have just started a new post as Rector of Wrington with Redhill, Butcombe and Burrington (just south of Bristol airport) in the diocese of Bath and Wells.

1997

Constantine (Dinos) Spanoyannis

(BSc Business Economics with Computing)

Following a 14-year career in advertising in Athens, I moved with my family to London in 2014 and I am currently at Geometry London as a global account director. I happily reside with my wife and our seven-year-old daughter in Chiswick, West London, enjoying the English weather!

1999

Dr Pat Pinsent

(PhD Published Papers)

I have just published a children's story, *Life with Grandpa*. The ten-year-old narrator is not altogether happy when her granny and grandpa (who has dementia) come to live with her family. In the course of the story she gradually discovers, through a series of often amusing incidents, that this often infuriating old man was once young – won races, wrote stories, and was very clever. In today's society there are increasing numbers of children coming into contact with old people with dementia and I hope this might be a way of helping them understand.

2001

Maria Baskini

(BSc Nutrition)

After Surrey, I studied for an MSc in Clinical Nutrition at New York University before returning to Greece in 2004, running my private nutrition practice. In 2014 I started my PhD at the University of Macedonia, Greece. I have been married to Manolis Arsenis, who is a lawyer, since 2007 and we have three children. The memories from the years I spent at Surrey and the friendship that evolved with Aggeliki Garneli still remain vivid. I certainly owe to the University my fulfilling professional career.

Laura Eshelby

(BSc Sociology)

I have had a successful career in the Civil Service and am now Head of Counter Fraud Professionalisation in the Cabinet Office. Always happy to mentor or talk to students about careers in the public sector and particularly in counter fraud and corruption.

**Sam Hurst**

(BSc Hotel and Catering Management)

I started my café business, Grazing, in London last year. I grew the company from a single café outlet to a leading corporate caterer, specialising in workplace and event catering. Our business model has won a number of awards including finalists in the 2017 Event Caterer of the Year, 2017 FSM Innovation and Executive Chef of the Year and 2018 B&I StreetEats Award. I am pictured on the left.



2002

Kristina Evelyn

(online MBA)

While studying for my MBA, I was working with Ernst & Young and I continued in a senior role with them and then Terra Caribbean until 2007. I took several years off when my two children were very young and re-entered the working world in 2011, helping out my husband initially with a restaurant business. Since 2013 my main focus has been sports tourism events – the promotion, organisation and execution. Recently I have enrolled on an online course with Cornell University to upgrade my knowledge of digital marketing which needless to say is a critical element in the promotion of both projects! Never too old to learn.



2004

Adam Pearson

(MSc Change Agent Skills and Strategies)

I am living in Cornwall and running a hypnotherapy clinic – www.newquayhypnotherapy.com – which I set up in 2016. I am also a mentor with surf charity 'The Wave Project' and volunteer in the health sector. Before moving to Cornwall, I worked for Shell in The Hague, following a career in organisational change consulting. I am still in touch with Vicky Cosstick, and a few other graduates from the MSc, including Alan Hocking and Liz Veacock.

2005

Suman Shrestha
(BSc Clinical Practice)

I currently work as an Advanced Critical Care Practitioner in the Intensive Care Unit at Frimley Park Hospital in Surrey. I was awarded Associate Membership of the Faculty of Intensive Care Medicine for my achievement – the first to receive this in the region. I am also a Professional Lead for Acute, Emergency and Critical Care for the Royal College of Nursing and involved in a national level agenda in nursing and healthcare. I also chair the United Kingdom Critical Care Nursing Alliance which is a forum for all critical care nursing-related organisations in the UK. I am married to my lovely wife Susan Shrestha (née Chown) who also completed her BSc in Nursing (Cancer Care) at Surrey and we have a six-year-old son Lucas who is the joy of our lives.

2006

Nick Hatley
(BSc French and European Studies)

I am part-owner of WorldStrides – America's largest educational travel company. Every year we take over 500,000 students around the world on amazing educational itineraries. Currently, I am Director of our Excel Division helping it grow. I now live in lovely Denver, Colorado with my wife Keegen and three daughters Poppy (three) and twins Philippa and Fiona (18 months)

Nilo Hettiarachchi
(BSc Biomedical Sciences)

I am a medical doctor in renal medicine. I work all over the country but currently I am based in Birmingham.

2010

Lawrence Clemence
(Cert HE Law with German Law)

Bit of a rollercoaster ride for me but after I left I completed a geography degree at the University of Southampton (graduated July 2013). I now work within an engineering consultancy in central London as a transport planner. Any Law graduates who started off their journey in Surrey halls in 2008, it would be great to reconnect!

Rafal Soborski
(PhD Political, International and Policy Studies)

I am currently Professor of International Politics at Richmond, the American International University in London, and editor of *The Global Studies Journal*. I have published extensively on globalisation, ideology, Euroscepticism and green political thought and my latest book, *Ideology and the Future of Progressive Social Movements*, was published earlier this year by Rowman and Littlefield.

2011

Sandrine Da Costa (née Hazoume)
(MA Intercultural Communication with International Business)

I worked a couple of years for international trade companies but two years ago I joined the not-for-profit sector and I am very happy. I am a logistics and administrative associate in a private diplomacy organisation based in Geneva. I married in 2015.

Osaid Khaliq
(MSc Mobile and Satellite Communications)

In 2016, I moved to Gemalto Berlin to work on 5G technologies. I am currently working as a standardization expert for 3GPP Group where we decide on standards to be used worldwide for the new 5G technologies. I have a lovely wife who is a biomedical mechanical engineer from Canada.

Victoria Matey
(MSc International Events Management)

I'd like to share that I have recently been named as one of the Top100 Smart Women in Meetings by Smart Meetings in the Entrepreneur category. I am absolutely delighted and proud of such recognition: <https://www.smartmeetings.com/press>

Alexander McWilliam
(BA Acting)

In 2017 I formed Improv4Business (www.improv4business.co.uk), a learning and development company specialising in running innovative improvisation

masterclasses to develop people to become more creative and adaptive and better communicators in this ever changing world. I am using the skills I learned while at GSA to create this business.

2012

Ameen Ali
(BEng Aerospace Engineering)

I'm currently working for BAE Systems, and am in the process of transitioning from traditional defence platforms to the cybersecurity sector. I've enjoyed my career thus far, having had the opportunity to do some real engineering work which supports the Armed Forces of the UK and other countries. While on the company graduate scheme, I was fortunate to have been recognised at a global level with an award. I'm looking forward to what the next six years will bring with them – hopefully more success – and perhaps a Master's degree!

Jacqueline A Blenman
(MBA)

Life after graduation has been great. I married my best friend and fellow alumnus Jerry Blenman. In 2015 I graduated from the West Indies School of Theology and was awarded the 'Most Outstanding Student'. I have had the most exciting journey, punctuated with solid prospects for realising several of my life goals while positively impacting, hand-in-hand with my husband, the socio-economic development of my region. Surrey graduates are world-changers!

Hatice Gezer
(BSc Tourism Management)

I am now back home in North Cyprus as I'm marrying the man I met three days after I returned from Surrey and we have been together ever since. I am an English teacher after training in London, but I am still interested in tourism and about to graduate from my Master's degree that I took online from a local university here. I look at my Surrey diploma hanging on my study room wall every day and remember how lucky I am to have studied at such a good university.

Ruth Thomas-Pellicer
(PhD Psychology)

Thanks to the three-year research scholarship that I received from the University and the submission of my PhD, I have been able to make headway on three fronts. I continue the pioneering work endeavoured in my PhD in the form of a post-ecocidal turn now effected in the realms of science and religion. To communicate my philosophical effort to larger audiences I have developed the website www.postecocidalcultures.net. I have also started a symphonic rock music band, rootingEllipse.com, where I translate into verse my post-ecocidal philosophy to reach out to the masses, to raise consciousness and to raise funding for my NGO, EcoPaxMundiAgora.Org, geared at the restoration of the commons and the revival of education.

Mike Willans
(BSc Business Management)

I have recently qualified as a police officer for the Metropolitan Police. At the weekends, I police the streets of London as a Special Constable, fighting crime, and during the week I continue to work full-time in my professional career as International Network Co-Ordinator for JLT. You can read more about my work as a special constable at: www.linkedin.com/pulse/3-amazing-things-being-secret-police-officer-work-place-willans.

2014

Tess Bell
(BSc Mathematics)

After graduating, I decided to stay in Guildford as I loved the town so much. I started work in 2015 with Allianz Insurance in Guildford as a Management Information Analyst. I have achieved my Diploma in Insurance and am working towards my Advanced Diploma. Whilst at Allianz, Sophie Vickery (see 2015 submission) sat behind me at work, before learning that we both went to Surrey, lived in University Court at the same time, and lived in the same road the next year! We have since become close friends. Last year I bought my first house which I am incredibly proud of although now feel like a proper adult which is scary!



George Constantinos Mavrantonis
(LLB Law)

My three years at Surrey were unforgettable. After graduating I went on to complete my Master's in London and was subsequently called to the Bar of England and Wales in 2016. A change of plans occurred when I was offered a position in the UK Home Office, specialising in immigration law and decided to make London home. I commenced pupillage in early 2018 at Legis Chambers in Chancery Lane. Surrey, our University, is a truly remarkable place.

2015

Banseka Kayembe
(LLB Law)

I've set up my own politics blog for young people which has over 6,000 followers online. Almost all our contributors are young, with all sorts of political perspectives. I'm always looking for new ways to reach young people and give them a platform to speak their views. Last October I joined Parliament to work in its digital department, working in communications and engagement work on cyber security.

James Neil
(BSc Chemistry)

I have been working in Singapore for a little over two years as a consultant chemist. Working predominantly in the trading and shipping of petroleum products and industrial chemicals, I give advice and guidance to lawyers, insurers, vessel owners and charterers when disputes arise over the quality specifications of products being shipped around South East Asia. Without the career-building classes and advice received from my lecturers, mainly Professor Neil Ward, I would not be in the position that I am today.

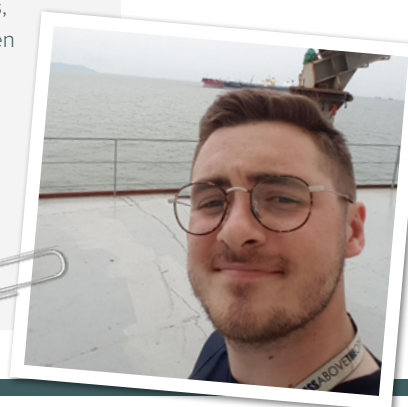
Jane Ugbari
(PG Cert Process and Environmental Systems Engineering)

I have travelled a long way from the city of Lagos in Nigeria. My personal goal and total agenda when at Surrey was to attain my post-graduate certificate and immerse myself in the whole learning culture. I am now a category supply manager with Travis Perkins which has given me increased confidence in myself and my abilities. My advice to new graduates on the journey is to stay focused, persevere and keep going no matter the difficulties; the end-result is worth it.



Sophie Vickery
(BA English Literature)

After graduating in 2015, I decided to stay in Guildford. For a short time I returned to the team where I completed my placement year, within international recruitment at the University, before entering the corporate world at Allianz Insurance. In two of the different desks I've sat at, I've been back-to-back with Surrey alumni (they're everywhere!). One has become a close friend now (see Tess Bell 2014 submission) – we never met at Surrey despite living in the same halls and starting the same year. I like living close to campus as it feels nostalgic walking past Rubix and remembering those long days in the library.



2016

Su Yee Aung

(BSc International Hospitality Management)

Growing up in Myanmar in a Burmese family, I am the first in my family to attend an international university. During my time at Surrey, I started the Myanmar Society, the very first group for Myanmar people and was elected as President. In 2017, I joined The Strand Hotel & Cruise, operated by GCP Hospitality, as a reservation officer. I am constantly being given the opportunity to develop my skills as a hospitality graduate and as a future hospitality leader.

Tai Ibitoye

(MSc Human Nutrition)

After graduating, I became a qualified nutritionist and used the skills and knowledge gained to help set up healthy eating and nutrition workshops within Hackney and Islington. I have also been invited to universities to raise awareness to students on the importance of eating well. I have featured in *The Huffington Post UK* talking about vitamin D (as inspired by my MSc project supervisor Professor Susan Lanham-New), explaining its role in health and why individuals should have adequate vitamin D levels. As well as this, I have featured on online platform *LifeHack* and in *Thrive Magazine* as a nutrition and health contributor talking about a range of topics, including foods to eat for better sleep, debunking nutrition myths and how to reduce the risk of cancer.

Lucia Knight

(MSc Psychology (Conversion))



Since graduating, I have combined my research into the silent but growing trend of disappearing mature people from corporates with my 20-year corporate head-hunting career to create my new coaching business, www.midlifeunstuck.com

where I help people in their 40s and 50s to change their career before it changes them.

Jacklynn Stott

(MBA)

I've just changed career paths from working as a project co-ordinator in a social housing charity in London, to becoming the executive associate to the CEO of Hyperoptic, a fibre internet service provider in West London. The MBA was one of the key qualifications that they looked at when deciding to bring me on board, and I know that, without it, I'd also struggle to have the confidence or even interest to enter this area; it's been a great tool to have!

2017

Ecclesia (Eggy) Chang

(BSc Media, Culture and Society)



The University has left me with some of the best memories, life-long friendships and unforgettable experiences. Upon graduation, I moved back to Singapore and took a job at the Ministry of Defence as an assistant manager for public relations. I also found the love of my life, Gerald Huang. I still keep in touch on a daily basis with my best friends from Surrey and, in fact, they're planning to come to Singapore this August. I can't wait! Surrey has left me with a holistic student experience that I am forever grateful for and I can't wait to visit the campus in the near future.

Joanna Miller

(BSc Nursing Studies)

I am with the community nursing team in Chichester which is where I had my management placement so my transition from student to qualified nurse has been relatively seamless. I love what I'm doing and I'm so pleased that I chose community nursing.

Kin (Lennex) Nam Wong

(MSc International Events Management)

After graduating, I kicked off my career at the Renaissance Hotel, Hong Kong, as an event assistant. It is terrific and amazing that I could develop my career in both hospitality and event industries. Apart from that, I have been in contact with all my friends and classmates in Hong Kong. The University granted me the opportunity to meet so many different people.

Minhao Wu

(MSc Accounting and Finance)

I am working in China in my first job in a state-owned enterprise, which I treasure. I recently went to Shanghai to have a party with fellow Surrey graduates (pictured), talking about our lives since graduation. Our class is the most united and friendly and we have met many times since even though it is not always easy. I would like to express my gratitude to the University, to our tutors and my supervisor, and to all of my friends I met in England. I learned so much. Thank you so much for your education!



REMEMBERING

Leo Grattarola

Leo died in April 2017, aged 58.

Dr John Bowsher

John died in August 2017 at the age of 83.

Professor Nigel Reeves OBE

Nigel passed away on 31 January 2018, aged 78.

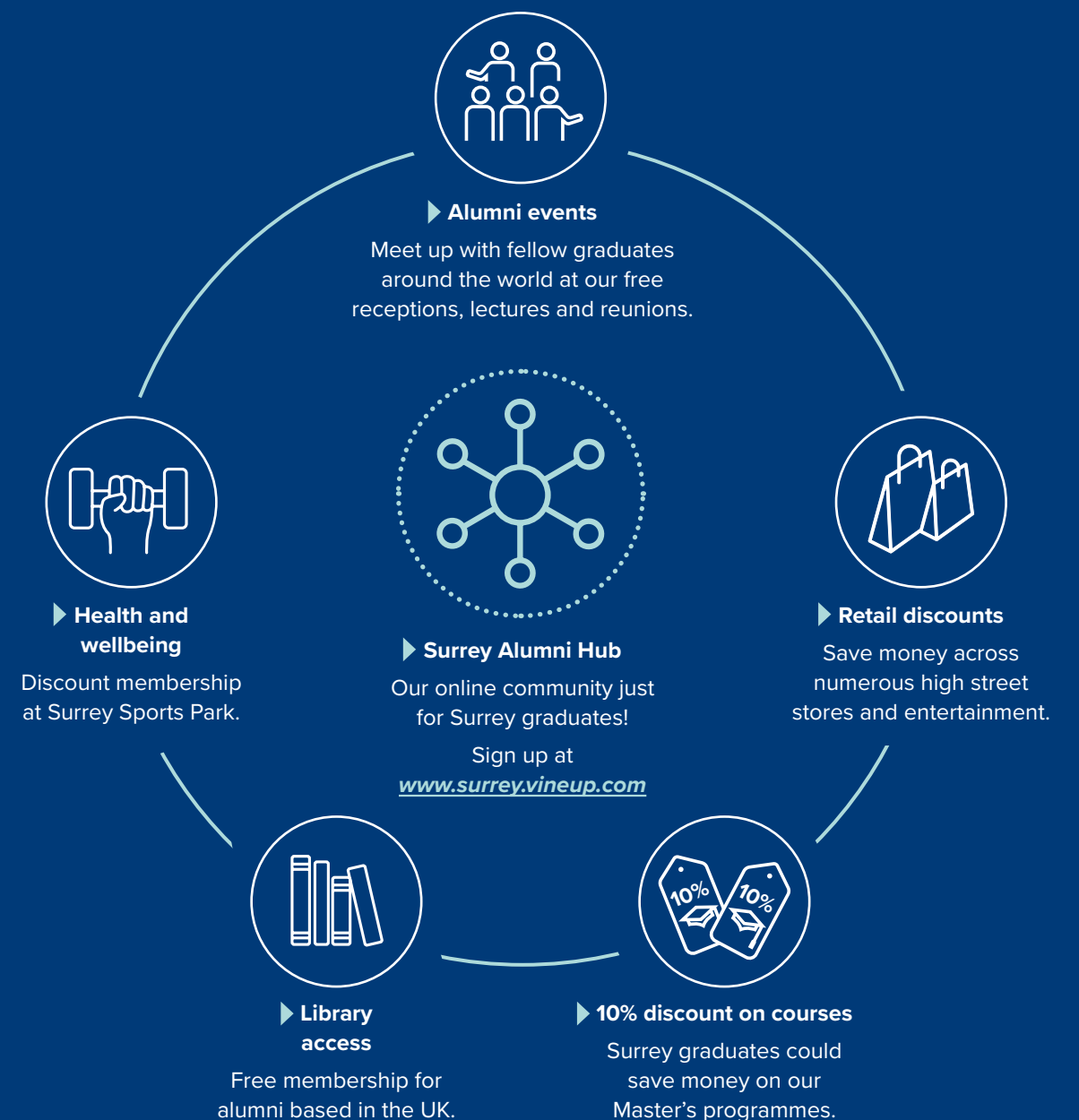
Professor Robin Sharp

Robin died on 24 April 2018.

DON'T

miss out!

Make the most of being part of the Surrey alumni community through our range of exclusive benefits just for you.



Don't forget

to update your details if you move house or change your email address at alumni@surrey.ac.uk or via our online form surrey.ac.uk/form/webform-72021. You will always be part of the University of Surrey, so please stay in touch.



A Surrey student could succeed because of you

Under the leadership of Professor Max Lu the University has gone from strength to strength. We are a top 10 university in the UK and have continued our rise in the global league tables. We have recently been awarded TEF Gold – the highest accreditation available in the UK – recognising outstanding teaching, learning and outcomes for our students, and the prestigious Queen’s Anniversary Prize for our research and teaching in food and nutrition.

Alongside these successes lies our responsibility. A responsibility to ensure that students from all financial backgrounds can pursue the world-class education and opportunities that Surrey provides.

With the help of our supporters, we can achieve this goal.

For some students, the decision to study at Surrey is a tough one. Guildford has some of the highest rent costs outside London, with most of our students paying over £400 a month, even before other bills. Young people from low-income backgrounds wanting to become our future vets, engineers and midwives are being put off by these substantial and cumulative living costs.

This is why we are offering you the opportunity to help fund a life-changing scholarship for one of our students. We believe that Surrey should be open to all, educating all and producing the best.

Our commitment to our students does not end the moment they step onto campus. We also contribute some of our scholarship funding towards supporting Professional Training Year placements for disadvantaged students. This experience has a huge impact on their employment prospects: over 40% of students are so successful during this year that they go on to be offered a permanent job with their placement employers.

A scholarship to Surrey gives a life-changing opportunity to a student from a lower income background before, during and after their time at Surrey.

And giving a donation of just £25 will help to ensure that Surrey continues to be the first choice for aspirational and talented students, regardless of their financial situation.

So please make your gift today at www.surrey.ac.uk/donate. Thank you.

With warm regards

Patrick Degg
Director of Advancement



Chloe’s STORY

Biological Sciences student Chloe Proctor was awarded a life-changing scholarship

“
My mother raised my three sisters and me by herself and finances have always been tight. I am the first member of my family to attend university and it was difficult for me to persuade my family of the value of attending. This scholarship has allowed me to come to Surrey.
”

Chloe went on to graduate with first-class honours, proving the value of making scholarships available to talented students who may otherwise have missed out on the chance to come to Surrey.

▶▶▶ By donating just £25 you can help fund a scholarship and make a difference today.

DONATE NOW

Keep in touch

As a Surrey graduate or friend of the University, you are part of a large community of 112,000 supporters. We are here to help you stay in touch, keep you updated on your University and show how you can help Surrey continue to thrive and grow.

If you have recently changed your contact details, please let us know.

UPDATE YOUR DETAILS

▶ Find out more about **leaving a gift in my will** ▶ Find out more about **volunteering at the University**



Data protection

The University of Surrey uses your personal data for a number of reasons, but primarily to enable us to keep you informed of our news and engage you in activities that might be of interest to you. Your data is held securely and is only used in line with data protection legislation. More information about this can be found in our **privacy notice**. This details the types of personal data we hold, how we protect it, and how we use it in order to support our global community of alumni and friends and the work of the wider University.



WHAT WILL *your* LEGACY BE?

Introducing our new 1891 Society

The generosity of our supporters has played a crucial role in our development since our modest beginnings in south London 127 years ago. To celebrate this heritage, and the foundations on which Surrey is built, we are launching our new legacy circle – the 1891 Society.

Battersea Polytechnic was established in 1891 to educate “young men and women from the poorer classes”. Our new name connects the underlying ethos of both Battersea and the University to ensure that talented and motivated students from all backgrounds and nationalities reach their full potential.

Legacy pledges have a profound and lasting impact for years to come, and it's thanks to this continued support that Surrey is where it is today – a rising star in higher education, with tremendous achievements in teaching, research and innovation.

► Leave a legacy today and transform the lives of tomorrow.

If you would like to know more about leaving a gift in your will, please contact
Kate Redrup at k.redrup@surrey.ac.uk or on +44 (0)1483 689264.