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Page 8 - Surrey's research into cancer treatment



Page 9 - British astronaut lands on campus



Volunteers help bring space to Guildford.
Credit: Alistair Wilson

Bringing World Space Week to Guildford High Street

The University partnered with the Institute of Physics to celebrate World Space Week, taking over Guildford High Street and Tunsgate Quarter with a raft of space-related exhibits, experiments and activities.

World Space Week, which takes place every year from 4–10 October, is the largest space event on Earth. For the first time ever Guildford hosted one of the 5,000 worldwide events with a full day of free and family-friendly activities, which included more than 20 stalls and tabletop experiments, solar observing, coffee shop craft sessions, storytelling, a school art competition, a space string quartet, science fact or fiction workshops, a sold-out lecture at the Guildford ODEON and a Bright Club comedy night.

More than 2,000 visitors enjoyed playing with satellites, driving a Mars Rover and tasting astronaut food, while a range of volunteers wandered the high street in a UK Space Agency replica spacesuit.

We were delighted to showcase some of the amazing research from our world-leading Space Centre, as well as providing a platform for more than 20 partners from the space and physics sector to engage with the public.

Dr Heather Campbell, Physics Outreach Manager at the University, said: "We are so excited to be able to share the wonder of space with the local community, especially those who might not have chosen to attend physics events but who stopped by one of our activities in the high street to see first-hand how fun and accessible space can be."

Dr Chantal Nobs from the Institute of Physics, said: "To launch this event for the first time we teamed up with the University of Surrey, who provided fantastic support, and we are pleased to say that World Space Week Guildford 2019 was a massive success! There is already huge support for an even bigger event next year."

The event could not have happened without the support of STEM Ambassadors, Guildford Borough Council, Tunsgate Quarter, Experience Guildford, Guildford Library, Yvonne Arnaud and Holy Trinity Church.

For more information, visit: worldspaceweek.org

Blooming marvellous for Surrey

The University were thrilled to receive two medals in the Guildford in Bloom Student Garden Showcase and Best Site for Nature Conservation categories.


Physics PhD student Daisy Shearer won Gold and Best in Category for her quantum garden, located in Guildford Park Avenue, which featured a 'path to quantum computing', with paving stones engraved with significant scientific breakthroughs.

The garden explored quantum computing concepts such as superposition, entanglement and qubits, with a visitor bench as the centrepiece.

Our Estates team also won Silver for their fantastic campus lake, which boasts a wealth of wildlife and plant species.



Physics PhD student Daisy Shearer. Credit: Grant Pritchard


 Welcome


Welcome from our guest editor Carol Dunnett, Chief Officer of Voluntary Action South West Surrey

I am delighted to have been asked to guest edit this edition of *Your University*, particularly as several articles have connections with our work at Voluntary Action South West Surrey (VASWS).

As our name implies, VASWS is all about supporting voluntary action. We encourage people to volunteer, support the development of community groups, provide information on volunteering opportunities, and help those with mental health problems to be more active in their community.

For many students volunteering is an important part of their university experience. We have close links with the University's volunteering department to help them find placements with local charities, and we are currently working with the School of Health Sciences to host nursing placements here at VASWS.

Among the following pages there are several great examples of how students and the University are involved in volunteering and supporting community projects. From helping out with litter picks and sponsoring the Guildford Street Angels and Marshalls, to supporting the first Pride in Surrey festival, this local voluntary action is helping enrich our community.

I'd like to draw your attention to the article about Real Change on page 3 – a scheme which is helping raise money for Guildford's homeless, and enabling them to make a positive change in their lives. The fund is reliant on donations from the public, so it's great to see that it's being promoted by the University.

On page 5 you can read a review of our voluntary sector conference, which is hosted annually by the University, showing that it's not just volunteering that brings VASWS and the University together.

Also on page 5, there's a piece about the Pint of Science talks. Having attended a couple of these myself I can thoroughly recommend them – they are a great way to find out more about the work of the University as well as being entertaining and informative.

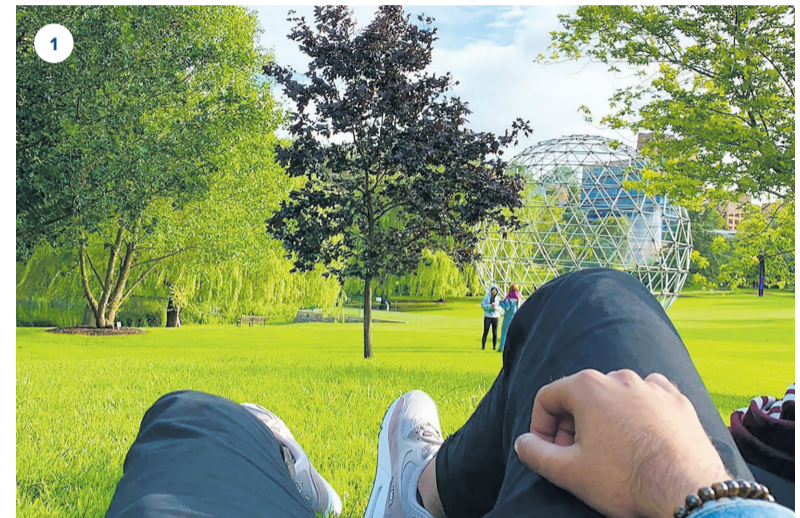
I found the sustainability section particularly fascinating – it is encouraging to hear about the different projects happening on our doorstep which are helping the environment and combating climate change. For example, on page 6 there is news about a grant investigating the effects of air pollution, the launch of the Surrey Climate Commission, and work on solar panel technology.

I do hope you enjoy reading this edition of *Your University* and find it informative to learn about the many positive things that are happening in the community.

To find out more about volunteering opportunities or community groups, please visit: voluntaryactionsws.org.uk

Instagram: Reflection

Recognising the need for quiet and reflection in these busy times, here are some of the most restful images posted by staff, students and local residents on Instagram. Follow us: [@uniofsurreycpe](https://www.instagram.com/uniofsurreycpe)



1. Avi Ajwani
2. Anton Marinski
3. Joe Hudson
4. Colin Chueng
5. Guildford Borough Council

CCTV in the community

Third-year sociology student Jon Allen has compiled a report for Guildford Borough Council’s recent CCTV review.

The report will help shape the future of community safety in the borough, providing an evaluation of the efficacy of CCTV in relation to crime prevention and detection of offenders. It also assesses the impact of reduced CCTV monitoring, re-deployable capabilities and the public value of CCTV.

Councillor Fiona White, Deputy Leader of the Council and Lead Councillor for Safeguarding, Inclusion, Public Safety, Community Safety, Vulnerable Families and Older People, said: “Community safety is a key priority for the Council and we have always worked closely with the Police on using CCTV to help keep our borough safe. The equipment is due to be upgraded and we are working closely with the Police, the University of Surrey and Experience Guildford to review it.

“Jon’s contribution has been excellent and he has added further insight and understanding to our review. We are very grateful to him and the University for their support.”

Real Change is coming...

The University announced its support for the Real Change Guildford campaign, which aims to help Guildford’s homeless.

Launched in July, Real Change Guildford is a fund-based scheme that uses donations generated by local businesses and the public to assist those most in need, enabling them to make positive changes to their lives. From funding a training course or a deposit for a home to providing a haircut or new suit for that life-changing interview, Real Change identifies individuals in the borough that can benefit from their assistance, offering a long-term, sustainable solution to rough sleeping.

Greg Melly, Special Advisor (Community) to the Vice Chancellor at Surrey, said: “We are delighted to champion Real Change Guildford as ambassadors, by promoting the campaign and supporting fundraising activities on campus.”

Ketan Patel, who helped launch the campaign, said: “It is great to have the University’s support. Real Change brings the community together to help support some of the most marginalised people in our society.”

For more information, visit: realchangeguildford.co.uk



We shall not forget ‘Lest We Remember’

Surrey students supported Blind Veterans UK with an immersive performance in Guildford, telling the real-life war stories of those who cannot see, and cannot be seen.

The graduating cohort from the Guildford School of Acting (GSA) devised and created a promenade performance of words and music entitled ‘*Lest We Remember*’, which explored the consequences of war, starting and finishing in Guildford’s historic Guildhall. An especially moving highlight was the thanks given to all the WW1 fallen soldiers from Guildford, whose names were read aloud at the cenotaph prior to having some of their stories told.

The final section offered the audience the chance to close their eyes and experience the darkness of those who lost their sight as a result of the Great War. This was followed by a musical performance in the Guildhall.

Blind Veterans UK, originally known as St Dunstan’s Hospice, inspired the creative process of the event.

The charity helps blind ex-Service men and women lead independent and fulfilling lives by providing expertise, experience and a full range of support services.

Guildford Borough Council supported the event by allowing students to use the town’s historic sites to bring the piece to life. The acting students put on four sold-out performances in total.

Anna McNamara, Director of Learning and Teaching at GSA, who directed the production, said: “The actor-musicians are very proud of the piece they have created in *Lest We Remember*, and hope they have honoured these extraordinary people and their stories.”

For more information, visit: blindveterans.org.uk

IKEA comes to Surrey

The University welcomed IKEA’s Head of Sustainable and Healthy Living Joanna Yarrow to present this year’s Roland Clift lecture series.

Championing critical thinking in sustainable development and practice, the series is named after the founder of the University’s Centre for Environment and Sustainability.

Joanna Yarrow, who discussed IKEA’s People and Planet Positive Sustainability Strategy, said: “At IKEA we want to inspire and enable at least 1 billion people to live better lives within the limits of the planet by 2030.”

With a common ambition of inspiring people to pursue healthier and more sustainable lifestyles, the University of Surrey and IKEA have been partners

over recent years, including on the Live LAGOM project, which aims to encourage consumers to live more sustainably at home and explore positive lifestyle changes.



Community news



Cathedral View community garden. Credit: Darren Griffin

North West Guildford 2030 – a greener future

Researchers from the North West Guildford 2030 project have been talking to Park Barn residents and working with pupils at Kings College to better understand how the area can have a better, greener future.

In an interactive workshop, Year 10 Kings College pupils provided a great mix of insightful ideas for their vision of the area in 2030. The most popular theme involved getting ‘young peoples’ voices heard’ — signalling the pupils’ interest and wish to participate actively in decision-making locally.

Other ideas that came out of the session included ‘growing more food locally’ to enhance the local economy and promote a healthier lifestyle, and finally ‘clearing areas for economic development,’ where pupils spoke of affordable housing and independent

shops and businesses being established within Park Barn.

The engagement demonstrated by the students was impressive, as was their maturity in responding with constructive solutions for improvements in the future.

These results, combined with other feedback from local people, will be drafted into a report to provide a body of evidence in support of the regeneration of the area.

To find out more about NWG2030, visit: nwguildford2030.wordpress.com

Protecting Guildford’s streets

Surrey alumna Hannah Storey began her French and translation studies degree at the University in 2010. Originally from Dorset, she had hopes of becoming a translator or teacher. What surprised her during her four-year course was just how much she would fall in love with the town of Guildford.

She formed a tight-knit group of friends through St Saviour’s Church and decided to stay in the area after graduating. Three years after securing her first role as a Police Enquiry Officer, she successfully applied to be a Police Community Support Officer (PCSO).

One lengthy training process later, Hannah now provides a uniformed presence in Guildford town centre, helping to tackle anti-social behaviour and working with community groups and the public to understand local issues.

Hannah is currently mentoring a trainee as part of a new PCSO apprenticeship scheme – the first to be launched in England and Wales. She also met her fiancé at work and has no plans

to move on from her current duties just yet. Speaking about her job, Hannah said: “I really enjoy the role and would miss having the time to talk to people.”

And did her French degree ever come in handy? “I have been asked to translate documents, and French tourists are often surprised when they ask me for directions!”

For more information about the Surrey PCSO Apprenticeship Scheme, visit: surrey.police.uk



Surrey graduate and Guildford PCSO Hannah Storey

University appoints Dr Jim Glover OBE as a Pro-Chancellor

With a long and distinguished career in business, Dr Glover has enduring ties to both the University and the county of Surrey. He served as High Sheriff of Surrey 2018-19 and continues in his role as Trustee of the High Sheriff Youth Awards and the Community Foundation for Surrey. Dr Glover was also awarded an OBE for his services to charity earlier this year.

Playing a long-standing role in the higher education sector, Dr Glover served as a member of Council at the University of Birmingham for 10 years before joining Council at the University of Surrey and serving as Chair from 2013 to 2018.

Dr Glover said: “I am honoured to be appointed as a Pro-Chancellor of the University of Surrey. In this honorary role I will have the opportunity to officiate at the wonderful graduation ceremonies, where I look forward to seeing Surrey’s talented and hardworking students head off to make their mark on the world.”

Angels and Marshalls: a force for good after dark

Two schemes to minimise late-night noise and anti-social behaviour on Guildford’s streets are being supported by the University.

After a highly-successful pilot year, we are delighted to continue the Street Marshall service along our neighbouring roads. Funded by the University, the Students’ Union and purpose-built accommodation provider Scape, our Street Marshalls are operating between 11pm and 4am on Guildford’s popular student nights, with an increased service during peak-times such as Freshers’ Week. We have listened to feedback from local residents who very much welcome the presence of the Marshalls, who can be spotted wearing a blue high-visibility uniform.

We are also delighted to announce our sponsorship of Guildford town centre’s Street Angels scheme, which has been offering weekend support services since 2008. Street Angels are volunteers providing care and support for people, regardless of faith or background, who use the leisure and entertainment venues in Guildford at night.

The Street Angels team are out every Friday and Saturday night, all year round, from 10.30pm until 4:00am. They patrol on foot wearing distinctive coats emblazoned with a bright yellow angel, and have direct radio contact with each other, the team base, door staff and the Police.

Guildford Town Chaplain Reverend Noelle Coe said: “This is a fantastic initiative by the University and we are delighted they have listened and responded so positively to the needs of students and residents. We hope to build further links with the University and appreciate their support.”

The University’s Public Engagement Manager Lisa Dimbylow said: “Street Angels have helped many of our students over the years and we are really pleased to support them. The University is committed to reducing late-night disturbance to local residents and the Angels and Marshalls are a great combination to address this issue.”

For more information, visit: gtcc.org.uk



Noelle Coe and Lisa Dimbylow celebrate the University’s sponsorship of the Guildford town centre Street Angels

Making a Difference?

Earlier this year, Surrey hosted the 2019 Voluntary Action South West Surrey Conference on campus.

The theme, 'Are we making a difference?' had speakers both celebrating and challenging the work of the voluntary sector.

115 delegates attended workshops giving advice on maximising and measuring impact, evaluating the contribution of volunteering to charitable organisations, working with student volunteers from the University, securing funding, as well as offering a chance to input into Guildford's strategic plan on health and wellbeing.

Speakers included the Charity Commission's Head of Policy and Guidance Jane Hobson; Michael Coughlin, who is Executive Director for Transformation, Partnerships and Prosperity at the County Council; Jason Gaskell from Surrey Community Action and Kate Peters from Community Foundation for Surrey. Delegates enjoyed a networking lunch and the opportunity to hear local historian David Rose talk about volunteering through the ages.

For more information about next year's conference and to explore volunteering opportunities in your local area, visit: voluntaryactionsws.org.uk



New 'rainbow crossing' at Stag Hill campus. Credit: Joe Hudson

Surrey celebrates LGBTQI+ community

This August the University was delighted to support Surrey's first-ever LGBTQI+ Pride festival, held in Woking.

Michael Hassell, Equality Advisor at the University, said: "At Surrey we are committed to ensuring the very best staff and student experience, where our whole community can flourish in a culture of respect and support, celebrate difference and thrive on each other's success. When I heard about Surrey Pride, I knew the University had to be a part of it."

The University also recently installed a permanent 'rainbow crossing' at the main entrance to the Stag Hill campus. It has been created as a lasting expression of solidarity with the LGBTQI+ community as a whole.

See prideinsurrey.org for details about Winter Pride in Guildford.

Guildford residents have their say

This year the Guildford Residents' Survey was completed by more than 1,100 people.

We asked for your feedback on *Your University* and we were pleased to receive hundreds of positive comments, such as:

"The newspaper is a welcome initiative. I have learned far more about the myriad of activities the University is involved in from it."

"Good newsletter, I enjoy the mixture of local information about things I could attend or be involved with and the insight into research."

Other readers wanted to see more information about events and adult learning opportunities as well as human interest and community stories.

If you have an idea for a story or wish to submit a letter to the editor, please email: publicengagement@surrey.ac.uk

Walnut Tree Close litter pick



Volunteers get stuck in at Walnut Tree Close. Credit: Lisa Dimbylow

A community clear-up day in Walnut Tree Close uncovered some surprising treasures as University staff and student volunteers picked litter alongside residents and members of Guildford Borough Council.

Volunteers bagged eight sacks of garden waste, a fruit bowl, a plastic stool and more than 300 glass bottles, while the University's estates team pruned an unkempt patch of privately-owned scrubland.

Volunteer litter-picker Councillor Angela Goodwin said: "I hope to see more of these community activities in the future; they're a great way for people to come together to improve local areas."

The University meets with local residents across Guildford on a regular basis as part of its community engagement work. Other projects include the Street Marshalls scheme (opposite) and the 'Ssh' lamp post campaign (page 13) which tackle anti-social street noise.



Surrey researchers enjoy Pint of Science festival. Credit: Grant Pritchard

A satisfying pint! Guildford's science festival sells out

Surrey researchers propped up the bar across Guildford pubs for three nights in May as the town's Pint of Science festival sold out for the first time.

The annual festival sees thousands of scientists from across the globe share their research with members of the public in 300 cities across 24 countries. Guildford speakers included the University's quantum biology team which gave an insight into this new and relatively unknown field. They look at how quantum physics untangles some of the more inexplicable questions from the world of biology, such as the origins of life itself.

Festival-goers also heard from Surrey's award-winning Sleep Research Centre experts, who

discussed why getting a good night's sleep is so important, and the Department of Politics tried to explain what 'backstop', 'Norway 2.0' and other Brexit-related terminology actually means.

Ross Kelway, Public Engagement Manager at the University of Surrey, said: "We love supporting this incredible event and this year was as fascinating, thought-provoking and entertaining as ever. We look forward to hosting again from 11-13 May 2020."

For more information, visit: pintofscience.co.uk [@pintofscience](https://twitter.com/pintofscience)

Sustainability at Surrey

Tin can boost solar panel technology

Researchers from Surrey's Advanced Technology Institute (ATI) have produced a tin-based perovskite solar cell which could boost solar panel technology and help the UK reach its 2050 carbon neutral goal.

Perovskites are cheap and have proven to be more efficient at absorbing light than silicon. They can be fabricated using solution-processable 'inks' that allow production of efficient, thin and flexible solar panels using low cost materials.

Director of the ATI Professor Ravi Silva said: "Tin-based perovskite photovoltaics is an upcoming technology that promises major improvements to environmentally-friendly and efficient solar panels at a low cost."

For more information, visit: surrey.ac.uk/ati



Tin-based solar technology. Credit: ATI

Helping you INHALE clean air

Guildford residents will be at the heart of a £2.79m grant to investigate the impact of pollution on the physical health of individuals.

Surrey's Global Centre for Clean Air Research (GCARE) will work with Imperial College London and other partners to focus on the immediate impact of pollution in the micro-environment around a person. The INHALE project will examine the biological and physical aspects of pollutants, their potential for cell and tissue damage, and how this relates to health outcomes.

Professor Prashant Kumar, Director of GCARE at the University, said: "We are incredibly excited and proud to take part in this multidisciplinary project that aims to understand just how air pollution affects our health on a micro and a macro level. As the world wakes up to the perils of climate change and the damage it does to our planet and human lives, we hope that this project will move us closer to building a world where clean air is available to all."

This is one of many research projects carried out by GCARE with the help of Guildford residents.



How does pollution affect our health? Credit: Getty Images

It runs the Guildford Living Lab which aims to raise citizens' awareness about air quality and impact of green infrastructure to reduce air pollution and improve health and well-being through a combination of seminars, workshops, questionnaires and collaborative working between researchers, communities and policy makers.

Councillor Caroline Reeves, Leader of Guildford Borough Council, said: "The involvement of members of our community with the work done at the University of Surrey has highlighted the interest in issues around air quality in a very strong and meaningful way. It has meant that air quality is very high on the list of targets to be addressed locally as well as nationally."

For more information, visit: surrey.ac.uk/global-centre-clean-air-research

Surrey Climate Commission launch

This June, the Surrey Climate Commission was launched at the WWF Living Planet Centre in Woking.

The Centre for Environment and Sustainability at the University helped develop the Commission to tackle the pressing issue of climate change in the local Surrey context. The Commission aims to bring together stakeholders from the public, private and NGO sectors, as well as concerned individuals, to make Surrey a leader in climate action. The newly appointed Chair, Richard Essex, outlined the Commission's first plans, which includes putting in place its own structure, including a core group, working groups and a wider forum, conducting a baseline study of Surrey's climate impact and promoting citizens' climate assemblies across the county.

Professor Richard Murphy, Director of the Centre for Environment and Sustainability, said: "Our global reputation and reach is balanced with a strong belief in local action and we look forward to being part of Surrey's Climate Commission activities."

The Commission aims to promote transformative change throughout all sectors of society, recognising that people want to make a change but are not always aware of how to do it. It will provide guidance to communities and organisations across Surrey on how to live sustainably and minimise the damaging effects of climate change.

Councillor Michael Goodman, Surrey County Council Cabinet Member for the Environment, said: "We need to wake up. It's time for change. Residents are asking us to do it."

“

This is a brilliant chance for Surrey to show its contribution to implementing the innovations needed to deliver sustainable futures for all. ”

Professor Richard Murphy,
Centre for Environment and Sustainability at Surrey



University of Surrey NextBikes

Bike sensors track Guildford's air quality

A pilot project by Professor Klaus Moessner and undergraduate student Miroslaw Blicharz has shown that air quality can be tracked using bicycle sensors.

Sensors that collect air quality readings were fitted to three of the University's NextBikes. The sensors transmit the data, together with a timestamp and location (GPS), to build a comprehensive picture of air quality in the local area.

The bikes mainly travel between the three University sites – Stag Hill, Manor Park and Surrey Research Park. The project hopes to show that air quality can be measured accurately through relatively inexpensive means and, where

sensors have demonstrated severe environmental stress (poor air quality) in specific areas, local transport strategy must shift towards more sustainable transport modes such as buses and bikes.

Ultimately Professor Moessner would like to show the air quality data in real time, similar to a 24-hour weather forecast.

For more information, visit: klausmoessner.wordpress.com/mobile-air-quality-sensing



Showing virtual reality technology. Credit: CVSSP and Paul Stead

Pioneering AI Centre celebrates 30th anniversary

The University of Surrey's Centre for Vision, Speech and Signal Processing (CVSSP) showcased its research during their 'Can machines think?' 30th anniversary open day. Hundreds of people tried out technology such as 4D boxing virtual reality, a biometric age-estimator and real-time fashion analysis.

CVSSP is an internationally recognised leader in audio-visual machine perception research. With more than 150 researchers, they are one of the largest audio and vision research groups in the UK.

For three decades CVSSP has pioneered new technologies for the benefit of society and the economy, with applications spanning healthcare, security, entertainment, robotics, autonomous

vehicles, communication and audio-visual data analysis. Most recently, they were ranked third out of 558 in an international Google-sponsored audio challenge, where they created a machine to identify and understand everyday sounds such as a dog barking, a telephone ringing, or a guitar strumming.

Adrian Hilton, Distinguished Professor and Director of CVSSP, said: "We are delighted to be celebrating 30 years of CVSSP and to have showcased our ground-breaking research that is shaping the future of industries from healthcare and security, to communication and entertainment."

Cyborgs could become reality

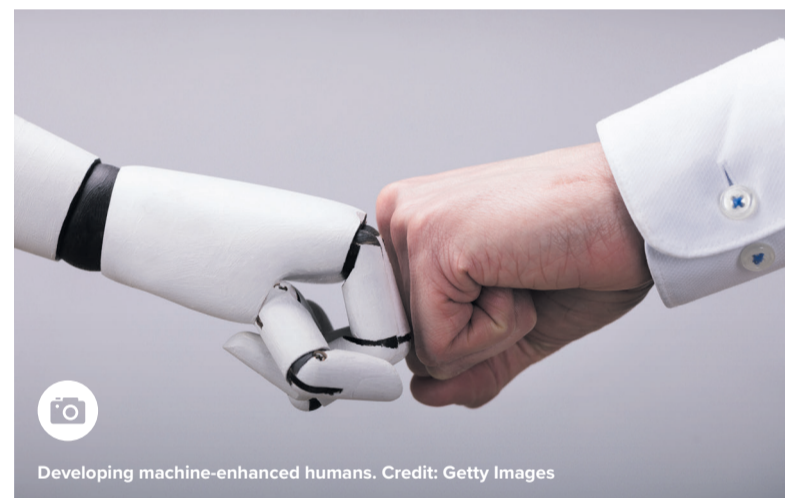
Machine enhanced humans – or cyborgs as they are known in science fiction – could be one step closer to becoming a reality thanks to new research.

Scientists from Surrey's Advanced Technology Institute (ATI) and Harvard University have taken a leap forward in human-machine interfaces by producing ultra-small nanopores for intracellular recording.

The tiny devices were used to record the inner activity of primary neurons and other electrogenic cells. The ability to read electrical activities from cells is the foundation of many biomedical procedures, including brain activity mapping

and neural prosthetics such as cochlear implants.

Dr Yunlong Zhao from the ATI at Surrey said: "If our medical professionals are to continue to understand our physical condition better and help us live longer, it is important that we continue to push the boundaries of modern science in order to give them the best possible tools to do their jobs. For this to be possible, an intersection between humans and machines is inevitable."



Developing machine-enhanced humans. Credit: Getty Images

G Live hosts Guildford Games Festival 2019

More than 1,000 people attended the inaugural Guildford Games Festival at G Live, consolidating Guildford as the 'Hollywood of Games'.

The public showcase day exhibited big names such as EA Games, Media Molecule, Playsport, Arrogant Pixel and Supermassive. Workshops for young people discussed building careers in the gaming industry, and AskAboutGames.com provided advice about playing safely online.

The industry day, sponsored by the University, gave companies the opportunity to learn from Guildford's best gaming talent and ended with an industry awards evening.

The festival was supported by the Guildford games community, Guildford Borough Council, Ukie and Enterprise M3.

For more information, visit: guildford.games/festival

Blockchain for public good

People think of archives as being about the past, but in reality they are the lens through which future generations will see the events of today. Working with The National Archives and Tim Berners-Lee's Open Data Institute (ODI), Surrey is using Blockchain technologies to help safeguard the integrity and future sustainability of our digital public archives.

The Centre for Vision, Speech and Signal Processing has developed ARCHANGEL, which will deliver cutting-edge science, working practices and models, to bring archives into the digital age - safeguarding their openness and integrity for future generations. ARCHANGEL will provide this assurance using Blockchain, the technology behind crypto-currencies like Bitcoin. The University of Surrey is exploring alternative non-financial uses of blockchain for the public good.

Project leader Professor John Collomosse said: "Archives across the world are amassing vast volumes of digital content, and it is important that they can prove their provenance and integrity to the public in a secure and transparent way."



Blockchain technology safeguarding public archives. Credit: Getty Images

Augmented app makes art accessible

The University's School of Hospitality and Management has received funding to explore the impact of augmented reality (AR) visitor experiences in the arts and heritage sector.

Academics from the University have partnered with social enterprise Smartify to install an AR solution in the Watts Gallery Artists' Village. The project will research and analyse how technology can increase accessibility to the arts for existing visitors, new audiences, families and those with a visual or hearing impairment.

The Smartify app won the UN World Summit Award for Culture and Tourism last year and has over one million users worldwide. The free app allows you to scan and identify artworks, access rich interpretation and build a personal art collection in some of the world's best museums and galleries.

Smartify supports media created by the Watts Gallery Artists' Village curatorial team, including rarely seen archive images, bespoke audio interviews, curatorial research and inspirational stories behind works of art.

For more information, visit: wattsgallery.org.uk

Research



Common cold virus could revolutionise bladder cancer treatment

Researchers from the University and Royal Surrey County Hospital have found that a strain of the common cold virus can potentially target, infect and destroy bladder cancer cells.

Current treatments for bladder cancer are problematic. Hardev Pandha, Principal Investigator of the study and Professor of Medical Oncology at the University of Surrey, said: "Non-muscle invasive bladder cancer (NMIBC) is a highly prevalent illness that requires an intrusive and often lengthy treatment plan. Current treatment is ineffective and toxic in a proportion of patients and there is an urgent need for new therapies."

The study investigated the safety and tolerability of exposure to the oncolytic virus, coxsackievirus, a naturally occurring strain of the common cold, in fifteen patients

with NMIBC. NMIBC is the tenth most common cancer in the UK with approximately 10,000 people each year diagnosed with the illness.

Examination of patients' tissue samples post-surgery revealed that the virus was highly selective, targeting only cancerous cells in the organ. Further study showed that once virally-infected cancer cells had died, the newly replicated virus continued to attack more cancerous cells in the organ.

Following treatment with the virus, cell death was identified in the majority of the patients' tumours. In one patient no trace of the cancer was found during surgery.

New urine test diagnoses prostate cancer

Researchers at the Universities of Surrey and East Anglia have developed a urine test to diagnose prostate cancer and predict whether patients will require treatment up to five years earlier than standard clinical methods.

Prostate Urine Risk (PUR), the experimental new test, also identifies men who are up to eight times less likely to need treatment within five years of diagnosis.

It is hoped that the breakthrough could help many avoid an unnecessary initial biopsy and invasive follow-ups for 'low risk' patients.

Prostate cancer is the most common cancer among men in the UK. It usually develops slowly and the majority will not require treatment.

However, doctors struggle to predict which tumours will become aggressive, making it hard to decide on treatment.

Hardev Pandha, Professor of Medical Oncology at the University of Surrey, said: "The difficulty in determining if tumours are aggressive or have the potential to become so often leads to unnecessary procedures causing needless worry. This test will revolutionise how we diagnose and treat prostate cancer."

Meningitis research recognised as one of UK's greatest health science breakthroughs

Research by Surrey academic Professor John Joe McFadden has been ranked as one of the UK's most pioneering health breakthroughs.

The 'Nation's Lifesavers' list, part of the MadeatUni campaign, celebrates the work of UK universities that have had a significant impact on everyday lives. Professor McFadden developed a revolutionary new blood test for rapid diagnosis of meningococcal meningitis and septicaemia in 1996, which has gone on to have life-saving impacts around the world.

Meningococcal meningitis is a life-threatening disease affecting 1.2 million people every year and saving lives is dependent upon accurate and rapid diagnosis. Doctors were cautious about giving drugs to patients before they knew exactly what was wrong, so treatment was often not quick enough.

Professor McFadden's pioneering test was used to obtain an accurate diagnosis, even after patients were

treated with antibiotics. It is now used for diagnosis of meningococcal disease worldwide. In the UK alone, 16,000 of these tests are performed each year, leading to rapid diagnosis and treatment of 1,000 patients. It was also critical in developing effective, life-saving vaccination campaigns and altogether contributed to halving the worldwide meningitis death rate.

Professor David Sampson, Vice-Provost, Research and Innovation at the University, said: "Professor John Joe McFadden's work wasn't just a tweak of existing diagnostic methods, it was a revolutionary new technique."

For more information, visit: madeatuni.org.uk



Pioneering student targets cystic fibrosis

A Surrey student with cystic fibrosis is studying MSci Biochemistry in the hope of speeding up research into the life-limiting condition. Now in her second year of study, Annabelle Brown was diagnosed as a baby and also developed diabetes as a result of the disease.

Balancing health issues with her studies and a part-time job in Guildford hasn't been easy. However, her housemates and personal tutor provide a strong support network and Annabelle plans to continue her research with a PhD. Speaking of her ambitions, she said: "The end goal is to find a cure or at least make some notable difference."

While she was at school in Brighton, Annabelle admits to being "a bit of a nerd" who loved biology, psychology and archaeology.

She chose Surrey because she loves the community and the number of hours the University dedicates to each student.

Annabelle has lobbied parliament to provide life-changing medication on the NHS and she hopes to secure a placement with the Cystic Fibrosis Trust. One of her goals for this year is to organise a big fundraiser for the charity.

For more information, visit: cysticfibrosis.org.uk

All eyes on dementia research

Dr Marianne Coleman from the School of Health Sciences at the University has been awarded the prestigious Squint Forum Prize from the Royal Society of Medicine for her ground-breaking dementia research with local residents.

Funded by Fight for Sight, a leading UK charity dedicated to pioneering eye research, and the Royal Society of Medicine, her research investigates how the ability to judge distances may be affected by dementia, and whether changes in pupil size during memory tasks could be a non-invasive indicator in monitoring the progression of the condition.

Dr Coleman, Research Fellow and Orthoptist at the University, said: "Some types of sight loss are more common amongst people living with dementia, and it can be difficult for them to explain that something is not quite right with how they see things."

With support from Guildford Borough Council's Park Barn Social Centre, Dr Coleman worked with participants aged 55 and over to research suitable eye tests for those with memory loss.



Dr Marianne Coleman

NASA astronaut's amazing space adventures

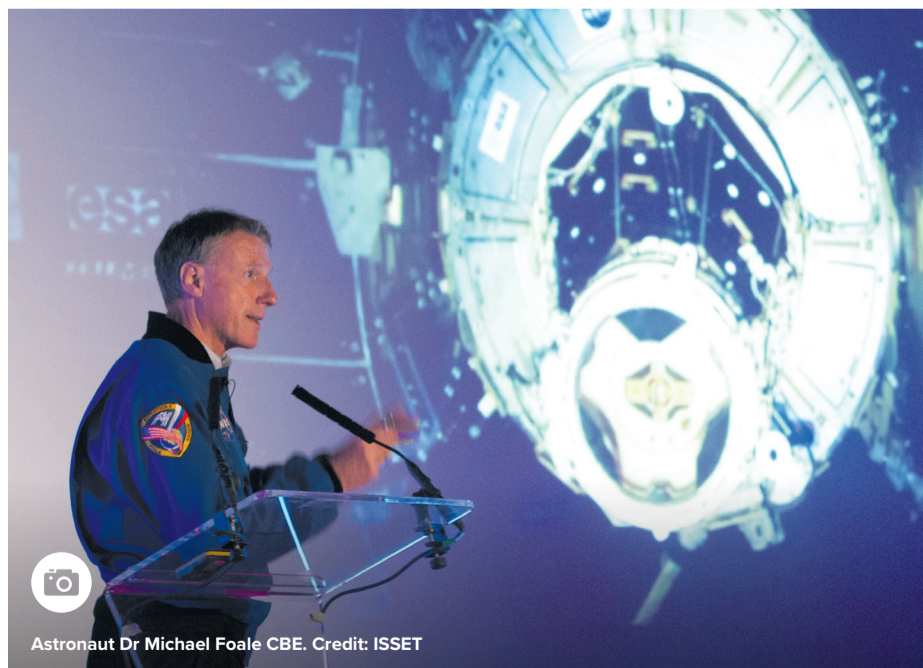
On the 50th anniversary of Apollo 11, in collaboration with Pint of Science, the University welcomed hundreds to an evening with astronaut, Dr Michael Foale CBE.

Having clocked more than 370 days in space, Dr Foale is the most experienced British-born astronaut in history and the first to perform a space-walk, during which he saved the Hubble Space Telescope in 1999.

Dr Foale captivated the audience with stories of his space missions including rescuing the Russian Mir space station. Visitors to the event also got the chance to learn more about the University's Surrey Space Centre and Astrophysics Research Group, with a talk from Surrey astrophysicist Dr Michelle Collins

and a range of exhibits and hands-on demonstrations led by students and researchers from the University.

Dr Heather Campbell from Surrey's Department of Physics said: "This unique event attracted a really diverse audience, from young to old, who were all blown away by Michael's talk and the space research we're doing here at Surrey. Events like these inspire our next generation of scientists, and who knows – maybe our next British-born astronaut?"



Astronaut Dr Michael Foale CBE. Credit: ISSET

Local charities boost cancer research

Two local charities – the Prostate Project and BRIGHT – have given a substantial donation to support ground-breaking cancer immunotherapy research at the University of Surrey.

A £270,000 piece of technology, the Vectra Polaris, was purchased by the Prostate Project. The state-of-the-art imaging system will provide previously impossible in-depth analysis of interactions between immune and cancerous cells.

A dedicated technician, funded by BRIGHT, will support the operation of the equipment and an £80,000 grant from the University will provide servicing and maintenance.

The funding is vital to the development of cancer immunotherapy, a revolutionary new form of treatment which artificially stimulates the immune system to treat cancer and will help transform cancer care in the UK. The new machine will also provide a valuable service to the Royal Surrey County Hospital Pathology Unit.

Visit prostate-project.org.uk and brightcancercare.com for details.

Who cares for older adults?

The University hosted a three-day international research meeting to discuss the roles, responsibilities and future care of older people.

The meeting, funded by the Wellcome Trust, was led by Surrey Professor Ann Gallagher and Dr Michael Dunn from the University of Oxford in collaboration with visiting academics from Xiamen University, China.

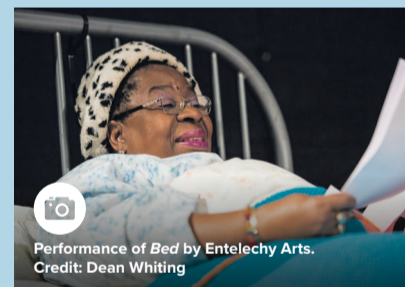
Experts from 11 countries provided commentaries on Chinese and UK cases relating to domiciliary and resident care for older adults. Activities included an immersive theatre event, conducted by the innovative Entelechy Arts Company, recognised for its pioneering programmes of work supporting social inclusion.

The performance and following panel event enabled international experts and the public to engage

with the question: 'Whose responsibility is the care of isolated elders?'

The meeting provided rich insights from international experts, the public and the arts which will help develop further cross-cultural research.

For more information, visit: entelechyarts.org/projects/bed



Performance of *Bed* by Entelechy Arts. Credit: Dean Whiting

Humans, sheep, pigs and goats

Dr Laura Cull Ó Maoilearca from the University's Guildford School of Acting has been awarded a prestigious £250,000 grant to investigate how performance can contribute to our understanding of animals, culminating in a new devised performance with pupils from Guildford Grove Primary School.

The research will explore the power dynamics and ethical issues that arise in the relationship between performance, philosophy and animals.

In collaboration with the School of Veterinary Medicine at the University, Dr Cull Ó Maoilearca will create a new version of *Sheep Pig Goat*, a project that raises questions about the differences between human

perceptions of animals and the reality. She will invite audiences to witness a series of improvised encounters between human performers and sheep, pigs and goats.

Dr Cull Ó Maoilearca said: "I am honoured to be awarded this AHRC research grant that will enable me to work with fantastic partners and participate in the lively debate about human perceptions of animals. I hope my research will contribute to positive ethical change surrounding attitudes and behaviour towards animals and show how the performing arts operate as forms of thinking in their own right."

Meet the team

The Estates Team – keeping our campus green and safe

Simon Smith is Horticulture and Landscape Manager here at the University. Under the leadership of Charlotte Prior, Simon and his colleague, Sports and Landscape Manager Iain Main, manage a team of 18 groundskeepers who maintain a staggering 320 acres across Stag Hill, Manor Park, Surrey Sports Park, Surrey Research Park, Blackwell Farm, Hazel Farm and Guildford Cathedral.

We asked Simon about some of the projects he and the team are working on.

Wildlife diversification

The team work with students and academics across the University to create a sustainable and safe environment for wildlife. We have more than 50 bird boxes and several bee hives, and this year we are making Surrey a hedgehog-friendly campus. Simon is a member of the Hedgehog Preservation Society and is working with a PhD student to monitor hedgehog and other small mammal footprints across campus.

This year the team were delighted that the campus lake won a Silver Guildford in Bloom Award for Best Site for Nature Conservation, and are planning to create more wildflower meadows and biodiverse spaces to sustain bees and attract birds.

Sustainability

The team are helping us meet our target of a 15 per cent reduction in water use by 2021, and have adopted an innovative 'water probe' irrigation system to assess moisture in the soil, promoting

targeted rather than widespread watering. Over the summer the Stag Hill piazza water feature was replaced with a locally produced sculpture surrounded by a bed of drought-resistant shrubs and insect-friendly plants.

Reducing both noise and our carbon footprint, part of the fleet of petrol-fuelled vehicles and tools are being replaced with electric equipment – they are even considering an electric-powered robot-mower.

Wellbeing

Simon, Iain and the team promote wellbeing by making the estate a welcoming and safe environment for staff, students and the public. They recently planted a 70-year-old olive tree in the grounds of the Roundhouse Multi-Faith Centre to mark the 100-year anniversary of the Holocaust, and spend a great deal of time cultivating tranquil areas around campus.



Community engagement

Simon and Iain want to involve the public more with environmental projects on and off campus. Recent projects include the community gardens in Park Barn, supporting students with Guildford in Bloom entries and helping local residents manage overgrown areas.

Meet the Students' Union sabbatical team for 2019

The full-time sabbatical team lead the Students' Union over a 12-month period, and are made up of four Zone Vice Presidents and the President, covering all aspects of student life.

The University of Surrey Students' Union is a not-for-profit charity, independent from the University, based on campus. Its job is to represent students while also playing a significant role in liaising with the local community.



The Voice Zone is led by Ajay Ajimobi, who supports students by giving a voice to their concerns to drive change at the University. She leads on elections, AGMs for clubs and societies, Surrey Decides and Course Rep elections.

Contact: ussu.vpvoice@surrey.ac.uk



Amina Nagwamma leads the Community Zone with volunteering and fundraising activities (RAG) and helps develop a positive relationship between students and the wider Guildford community. She ensures sustainability is at the heart of all community activities.

Contact: ussu.vpcommunity@surrey.ac.uk



Gemma Paine was last year's VP Community Zone before becoming President. She oversees all Union activities and feels passionately that all Surrey students should have the best possible experience, using student feedback to develop policies and direct strategy.

Contact: ussu.president@surrey.ac.uk



Lizzie Rodulson leads the Activity Zone which runs campaigns to promote personal development through involvement in clubs, societies and employability activities. Lizzie runs activities on and off campus and showcases events in the local community.

Contact: ussu.vpactivity@surrey.ac.uk



Sarah Surget manages the Support Zone. This focuses on providing guidance to students through both the Nightline listening service and Welfare Watch, which supports students during nights out in student night club, Rubix. The Zone also facilitates open discussions through the 'Let's Talk' campaign.

Contact: ussu.vpsupport@surrey.ac.uk



Local young carers attend the Discover University Summer School

Young carers discover university

Our Discover University Young Carers Summer School programme was attended by 35 local young carers aged 14-16 years old.

Over the course of three action-packed days the young carers got to experience all elements of university life, including staying on campus in student accommodation.

The Summer School provided the young carers with an insight into subjects including engineering, politics, microbiology, arts and music. They also met with a careers adviser, specially trained to support young carers, to learn more about the academic, financial and emotional support available to them at university, and to discuss other pathways into higher education. All of the sessions were supported by our Student

Ambassadors who talked about their experience of transitioning to university while balancing other responsibilities.

The aim of the residential Summer School is to encourage students to think about their future potential and overcome any barriers that may be preventing them from studying at a higher education level. Before the Summer School, only 63 per cent of students felt confident they could study at university in the future. This number increased to 97 per cent once participants had completed the Summer School.

One student said: "I feel that I can definitely go to university one day and have made so many friends during this trip."

To apply for the 2020 Discover University Young Carers Summer School, visit: surrey.ac.uk/summerschools

Action-packed day for University Explorers

After a long week of SATs, more than 600 Year 6 pupils visited the University campus for University Explorers, an entertaining and engaging day dedicated to igniting their interest in university through five interactive zones.

Students explored a wide range of subject areas within our three faculties, discovered what independent living is like, complete with a to-scale student bedroom, and learnt about extracurricular opportunities offered at our clubs and societies. Other highlights included building and testing bottle rockets with

Winchester Science Centre and a lively silent disco session to round off the day.

Running for its second year, University Explorers was again met with positive feedback. One teacher said: "The children were really engaged throughout and the range of activities was brilliant. The staff and students were fabulous."

Another said it was: "A fantastic event. A great way to end SATs week, giving children an understanding of what their hard work can do."



Silence is golden. Credit: Paul Stead

Inspirational work experience

The University of Surrey has been supporting Kings College since 2016 to help secure and improve the future of the Guildford-based school. This year we were delighted to offer a new programme providing work experience placements for Year 10 pupils.

During July, departments from across the University hosted ten Kings College pupils to introduce them to the working world and provide a valuable insight into the various job roles within a university.

They spent one week working in our Library, Lakeside restaurant, Accommodation Services, Estates and Facilities Management, Research and Innovation, and Appleseed Print and Design. It was a worthwhile experience for both students and staff, who were impressed by the work ethic and enthusiasm of the pupils who participated.

Speaking about their experience one pupil said: "The whole week was wonderful and I am so grateful for the experience. It has made me change my views on working and adult life a lot. There are many good aspects that I had not realised before the placement!"

For more information, visit: kingscollegeguildford.com/finding-our-futures

Full STEAM ahead for local school children

In May, the University welcomed more than 600 Year 8 and 9 pupils from eleven local schools to our first ever STEAM Festival, celebrating the collaboration and innovation between science, technology, engineering, arts and mathematics.

The main attractions included a planetarium, courtesy of The Astronomy Roadshow, McLaren talks, green screen technology, a robotic arm, live musical and drama performances by the University's Gospel Choir and Theatre Society and interactive stands from the University for the Creative Arts, North East Surrey College of Technology, Smallpeice Trust and Pirbright Institute.

88 per cent of students said the event had motivated them to achieve good grades in their GCSEs.



Hands-on engineering at the STEAM Festival. Credit: Paul Stead

Christ's College pupils got rhythm

As part of our ongoing outreach commitment to schools in Surrey and Hampshire, the University's Widening Participation and Outreach team collaborated with the Higher Education Outreach Network to provide two jam-packed taster days at the University for Year 9 and 10 pupils from Christ's College in Guildford.

Pupils took part in a taster session at the Department of Music and Media with Senior Lecturer in Music, Dr Tom Armstrong. During the session, Dr Armstrong provided warm-up exercises aimed at building a sense of rhythm, using simple vocal arrangements of songs including Gershwin's *I Got Rhythm*. He looked at spoken word composition based on the improvisation of a poem by Emily Dickinson and pupils learnt about Steve Reich's *Clapping Music*, as well as trying out their conducting skills.

The pupils thoroughly enjoyed the two-day programme and the feedback was extremely positive.

For more details, visit: surrey.ac.uk/schools-colleges

Business and skills

University spin-out company joins Kinectrics Group

University of Surrey spin-out company GnoSys Global Ltd has been acquired by Canadian life cycle management business Kinectrics.

Borne from the University's Polymer Research Centre in 2006, GnoSys Global Ltd is a multi-disciplinary science and technology company located at Surrey Research Park. GnoSys will help to expand Kinectrics' global footprint, allowing the company to more effectively sell group-wide products and services and penetrate Europe's nuclear, transmission and distribution industries.

Dr Claire Thorne, Director of Innovation Strategy at the University of Surrey, said: "The University is proud of its cutting-edge research and societal impact; the formation

and growth of GnoSys is a great exemplar of the Surrey research and innovation ecosystem at its best. As GnoSys looks forward to this next chapter – joining the Kinectrics Group – we remain committed to its success."

For more information, visit: gnosysgroup.com



 Working in the GnoSys laboratory

Adult learning opportunities for all

If you'd like to explore a new interest or continue your professional development through further education, we can help. Here is a taster of what's on offer at the University of Surrey.

Evening language classes

Want to improve your language skills for work or learn a new language from scratch? We offer a wide range of languages and levels, taught by skilled and experienced tutors.

For more information, visit: surrey.ac.uk/language-class

Hospitality revenue management

By participating in this course, individuals and organisations can introduce the latest thinking into their business strategy and ensure maximum value is gained from each room and guest.

For more information, visit: surrey.ac.uk/revenue-management

Social media in hospitality

Designed for professionals in the hospitality and tourism industry to help define what social media means for your business, brand and future.

For more information, visit: surrey.ac.uk/socialmediaclass

Surrey Business School

Surrey Business School works with your organisation to provide executive education solutions tailored to your requirements.

For more information, visit: surrey.ac.uk/execeducation

To find out more about the wide range of courses available, visit: surrey.ac.uk/cpd

Sustainable tourism project receives €23m award

Interreg has awarded €23.3m to the University of Surrey and their EXPERIENCE consortium partners to deliver an impactful sustainable growth project to maximise experiential tourism in the French-English Channel region. Interreg France (Channel) England (FCE) is a European Union programme established to boost economic development in the south of the UK and the north of France by funding innovative projects to create sustainable cross-border benefits.

Experiential tourism is a growing travel trend based on regional uniqueness, with travellers seeking off-the-beaten-track 'live like a local' authentic experiences all year. Many regions have shifted from destination-based approaches to successfully embrace this new experiential trend and extend the travel season, but the FCE region remains undiscovered by experiential travellers despite its abundant potential.

This project aims to increase visitors in the October to March period by developing sustainable tourism that boosts the economy, contributes to healthy year-round communities and preserves the environment.

Focusing initially on trialling the strategy in Brittany, Pas-de-Calais, Compiègne, Norfolk, Kent and Cornwall, the project will help train tourism offices to recognise their unique regional selling points and harness them to create exciting off-season travel itineraries.

Professor of Sustainability Marketing Xavier Font from the University's School of Hospitality and Tourism Management said: "As the only university in the EXPERIENCE consortium we will be offering our tourism expertise, working alongside regional governments and non-profit organisations to develop a new tourism strategy for the FCE region."



 Cornwall Coast. Credit: Getty Images

Research Park collaboration to accelerate business growth

Businesses at Surrey Research Park were invited to discuss opportunities for collaboration, as the University sets out its commitment to work more with local businesses to drive growth.

Professor David Sampson, Vice-Provost Research and Innovation at the University, said: "Start-up success exudes from every part of the Surrey Research Park and the University of Surrey's focus is helping accelerate business growth further by building connections and establishing new opportunities."

Businesses on the Research Park – half of which already work with the University – contribute over £1bn to the local economy each year, and employ more than 4,300 people.

For more details, visit: surrey-research-park.com



 Delegates at the breakfast briefing event

Backing young business

Our new Surrey Innovation and Digital Enterprise Academy – SurreyIDEA – is the first of its kind in Europe. Aimed at students from Year 12 upwards, the two-year course combines classroom learning with hands-on experience in start-ups, corporates, incubators and accelerators, giving vital insights into the realities of entrepreneurship.

Grades are less important than entrepreneurial spirit and the Academy is looking for agile thinkers, hungry for success

who can come up with 50 ideas a day (and happily discard 49 of them). Students are offered an innovative funding scheme – instead of charging tuition fees, SurreyIDEA invests in students' enterprises and takes a percentage of the profits.

Head of the School Professor Andy Adcroft said: "We want to create a new generation of digital entrepreneurs that we call the 'disrupters,' the people that will transform the way we learn."

For more information, visit: surreyidea.co.uk

Student volunteering reaches new heights

From hockey coaching to hosting music recitals, more University of Surrey students are volunteering in the community than ever before. Either as part of a society or as individuals, our students racked up more than 22,000 volunteering hours last year with two students volunteering for an amazing 1,000 hours.

The Students' Union support volunteering by listing opportunities on surreyvolunteering.com, allowing students to sign up and log their volunteering activity.

In 2018/19...

22,000

total volunteering hours

1,500

different volunteers

870

volunteer opportunities

180

local organisations

Tackling street noise in residential areas

Residents living close to the University's campuses may have noticed lamp post signage reminding students to keep street noise to a minimum at night.

Our annual 'Ssh campaign', a joint scheme between the University and the Students' Union, tackles anti-social noise in residential roads near to our Stag Hill, Manor Park and Hazel Farm campuses.

Posters are displayed on 50 lamp posts and buses across Guildford until December. Fronted by renowned local DJ, Leroy Wilson, and supported by Surrey County Council's Community Partnership team, the Ssh campaign reminds passers-by to **#LetGuildfordSleep**.

For more information, visit: surrey.ac.uk/in-the-community



Above: The graduation ceremony at Guildford Cathedral
Below: Celebrating graduation outside the School of Veterinary Medicine
Credit: Paul Stead

History made as Surrey's first veterinary students graduate

This summer, five years since first opening its doors, the School of Veterinary Medicine at the University of Surrey celebrated the inaugural graduation of students from its prestigious Veterinary Medicine and Science BVMSci course.

The Class of 2019 received their degree certificates from the internationally-renowned philanthropist and University alumnus Dato Dr Kim Tan, a Pro-Chancellor at the University of Surrey, before attending an official ceremony with the President of the Royal College of Veterinary Surgeons (RCVS), Dr Niall Connell. Dr Connell formally welcomed the graduates as official members of the governing body, enabling them to practise as vets.

Officially opened by Her Majesty the Queen, the School has gone from strength to strength with 650 students now completing their veterinary training at the £45m state-of-the-art facility. Its innovative Veterinary Medicine and Science BVMSci course also recently received official accreditation from the RCVS Council. The unique teaching offered at Surrey has proven very attractive to employers,

with 90 per cent of this year's graduates securing employment prior to graduation.

Students have also been very positive about their experience, which included spending a significant amount of time in many local vet practices providing a valuable community service. The most recent National Student Survey revealed a 100 per cent satisfaction rate among veterinary students at Surrey, the highest score of all veterinary schools in the UK.

“

The teaching staff have been brilliant and I feel like I have been really well prepared for life as a vet.

”

Tom White,
2019 graduate

Surrey vets talk poo and parasites at Bright Horizons nursery

This summer, a group from the School of Veterinary Medicine visited Bright Horizons nursery on the University's Manor Park campus.

The nursery children got to try out being mini-vets, dressing up in gowns to help cure poorly prop-dogs by bandaging their injured legs.


Moving on to poo and parasites, the visiting vets discussed the importance of washing their hands to keep parasites away. Finally, they explored the function of bones in humans and animals and the pre-schoolers decorated T-shirts by drawing the bones of the thoracic cage with glow-in-the-dark paint.

Dr Giovanna Nalesso, Lecturer in Musculoskeletal Biology at the School of Veterinary Medicine, said: "Overall it was a fantastic

experience, for the children but for us as well. We had around 60 children rotating among the different activities. It was indeed a heart-warming morning and definitively an experience to repeat."

Nursery manager Leah Dyer said: "Our children took part in activities linked to our Growing Scientists programme within Bright Horizons. They all had a very enjoyable time learning new things and they particularly loved looking at a dinosaur skeleton."

For more vet school news, visit: surrey.ac.uk/vetnews

 What's on


1. Songs from the Shows, Guildford School of Acting. Credit: The School Photography Company
2. Guildford Cathedral. Credit: Getty Images
3. Public astronomy evenings. Credit: Getty Images
4. Sapphire Lally performs at Pint of Science. Credit: Grant Pritchard
5. University of Surrey Orchestra and Choir. Credit: Paul Stead

What's on

Lunchtime Recital
4 December 2019
PATS Studio, Stag Hill

British pianist Matthew Schellhorn has commissioned many works for piano and has given numerous territorial and world premieres. Join him in this free public performance as he presents works by leading contemporary composers.

For more information, visit: surrey.ac.uk/events

The Diary of Anne Frank
11–14 December 2019
Bellaire Theatre, Stag Hill

A transcendentally powerful new play for a new generation adapted by Wendy Kesselman. GSA's actor-musicians bring their unique perspective to this story of grief, laughter and above all the hope that shines through Anne Frank's voice across the years.

To book your ticket, visit: gsauk.org/events

University of Surrey Orchestra and Choir
14 December 2019
University Hall, Stag Hill

The University of Surrey Orchestra and Choir join forces to perform Copland's *Appalachian Spring*, Borodin's *Symphony No. 2* and Brahms's *A German Requiem*.

For more information, visit: surrey.ac.uk/events

Songs from the Shows
10 January 2020
Yvonne Arnaud Theatre

An evening of musical dazzle from some of the finest Broadway and West End shows and the most memorable film scores brought to you by GSA singers, including Stephen Sondheim and Cole Porter favourites and the classic film scores of John Williams and Ron Goodwin.

For more information, visit: yvonne-arnaud.co.uk

GSA evening dance classes
13 January–20 March 2020
GSA, Stag Hill

Be inspired by industry-leading professionals and become part of a vibrant community of performers. GSA offers evening classes in ballet, jazz, commercial jazz, tap, pilates, contemporary and tumbling for ages 18+.

For more information, visit: gsauk.org

Public astronomy evenings
15 January, 19 February and 18 March 2020
Stag Hill

Curious about astronomy and interested in learning more about the universe? The free event will begin with an exciting cutting-edge research lecture and, weather permitting, will be followed by a visit to our telescope on campus.

For more information, email: h.campbell@surrey.ac.uk

Community Orchestra Day
2 February 2020
Stag Hill

The University of Surrey Orchestra invites local musicians and the public for an inspirational day of rehearsal and performance. A free, informal performance will take place at 5:30pm–6:15pm, and all members of the community are welcome.

For more information, email: orchestra@surrey.ac.uk

Toulson Law lecture
12 February 2020
Stag Hill

We are delighted to welcome this year's keynote speaker, Lady Brenda Hale, British judge and first female President of the Supreme Court of the United Kingdom.

This year's theme is 'Testing the rule of law in the modern world'.

For more information, visit: surrey.ac.uk/events

Institute of Physics lecture
10 March 2020
Stag Hill

Sapphire Lally from the University's physics department will be discussing 'Quantum mechanics: A deep dive into weirdness'.

Everyone is welcome, all lectures are free to attend, and registration is not required.

For more information, visit: surrey.ac.uk/physicslecture

Chamber Choir
24 March 2020
Guildford Cathedral

The Chamber Choir perform at a wide range of events throughout the year including the esteemed annual University Carol Service at Guildford Cathedral. Returning this spring for a free must-see afternoon performance, their repertoire includes work from Purcell and Parry to new music by student composers.

For more information, email: orchestra@surrey.ac.uk

Find out more

Interested in hearing more about events at the University? Sign up to receive our monthly 'What's on' email guide by sending your name and email address – with the subject line 'What's on newsletter' – to: events@surrey.ac.uk

The Treatment Room at Surrey Sports Park

Surrey Sports Park offers much more than just a gym and swimming pool, they support members throughout their entire fitness journey by offering qualified personal trainers, group classes and the Treatment Room Sports Injury and Therapy Clinic.

The Treatment Room provides sports therapy, sports massage, osteopathy and physiotherapy with a small, specialist team who work together to provide a detailed assessment, diagnosis, treatment and rehabilitation for any complaint. All sessions include a thorough assessment and begin by asking

some questions about your medical and injury history.

The team of professional practitioners can help treat a wide range of ailments, from a sore neck due to poor posture, or knee pain from marathon training, to an ongoing minor niggle or pre and post-surgery rehabilitation.



CONSULTATION OFFER

Book in for a free 10-minute consultation by calling 01483 682136 or email: treatmentroom@surrey.ac.uk

You can also get in touch if you're looking for a physio in the Guildford area.

Swimmers smash world record for cancer

This summer, 100 swimmers broke a world record for the fastest 100 x 400m swimming relay at Surrey Sports Park to raise money for Cancer Research UK.



Student Rory Huggins swims for charity

The Swim4Cancer event was organised by 20 year old Rory Huggins, a sports scholar and maths student at the University of Surrey. Both his grandmothers have recently fought and beaten cancer. Speaking of the event, Rory said: "I wanted to show my gratitude and raise more funds for such a good cause. I've always been fascinated by world records, so it seemed like a good opportunity to do both."

Emotions ran high all day, as swimmers were reminded of their own personal reasons for swimming including Rory, who said: "Nearly everyone knows someone who has been affected by cancer and it's been really hard studying and swimming knowing that loved ones are fighting the disease."

Currently, the total raised by the swimmers is £38,300 and rising.

For more information and to donate, visit: [facebook.com/SwimForCancer1](https://www.facebook.com/SwimForCancer1)

Getting girls into basketball

Thanks to Sports England and Localgiving, the Scorchers Basketball Foundation have set up the first all-girls basketball league in Surrey.

This season will see the first all-girls basketball league in Surrey being coached by the Scorchers Basketball Foundation. They will be supported by Active Surrey and Energise Me satellite clubs, with funding provided by Sport England. Sessions are being run at five local schools: Kings College, Christ's College, Three Rivers, Farnham Heath End and Alderwood School, with the hope of further expansion.

The aim of the scheme is to motivate girls to get into basketball, providing them with fantastic

opportunities to learn the ins and outs of the game, improve their skills on a weekly basis and build new friendships, as our Scorchers players and coaches provide them with the support they need.

As the girls bond and form excellent teams they will be given the opportunity to play in tournaments on our professional basketball court in the Surrey Sports Park arena before Scorchers' home games.

For more information, visit: [surrey.ac.uk/scorchers](https://www.surrey.ac.uk/scorchers)

Sports Park holds free open day as part of Nation's Biggest Sports Day

On Saturday 24 August Surrey Sports Park opened its doors to the public in partnership with I Am Team GB – The Nation's Biggest Sports Day.

Attendees at the free open day took part in activities such as outdoor yoga, squash, badminton, tennis and swimming. Climbing proved very popular with all sessions being completely booked up by lunchtime.

Special guest Daniel Bibby, an Olympic Rugby 7s Team GB player, came along to support the open day, talking to children and parents about his career, touring the facilities and even taking a few selfies with others. He also played a tense game of squash with Team Surrey's Emma Keane.


The sponsor, Toyota Guildford, also came along to support the event and gave out Team GB merchandise to visitors.

The day was a great success with positive feedback from all visitors. As they left, one family said: "We have had a great day. We've played badminton, tennis and even squash for the first time. The girls also had a go on the climbing wall which they absolutely loved. We will definitely be back to use that again".

For more information, visit: [iamteamgb.com](https://www.iamteamgb.com)



Welcome staff at Surrey Sports Park

 Feature



And the awards go to...

Your University takes a look back on our staff and students' achievements across the year. From acts of bravery to Olivier Awards, we salute you.



1. The Widening Participation and Outreach team won the National Education Opportunities Network Widening Access Partnership Award for their work with Kings College, Guildford.
2. University of Surrey Lettings won the Overall Best Letting Agent of the Year Award from the London Landlord Accreditation Scheme and the Accreditation and Training for Landlords and Agents Service.
3. Professor Tony Myatt and Professor Richard Murphy celebrate winning a silver-gilt medal at RHS Chelsea Flower Show for their collaboration with the Silent Pool Gin Garden. Credit: Ash Knotek.
4. Security Officer Katie Fletcher (centre), received the Association of University Chief Security Officers 'Security Officer of the Year for an Outstanding Act of Courage'. Credit: Handover Agency.
5. Community and Volunteering Coordinator Ian Handy (centre) with his 2019 Mayor's Award for his work in the community. Credit: Joe Berryman.
6. Surrey professor, Jim Al-Khalili OBE FRS, was made Honorary Fellow of the Institute of Physics in 2019.
7. Physics PhD Student Daisy Shearer (front, centre) won Gold and Best in Class in the Student Showcase category of the 2019 Guildford in Bloom competition. With (from left to right): Dr Heather Campbell, Liani Mannifield, Ben Harbour, Tom Hood, Emily Frame, Simon Smith and Lisa Dimbylow. Credit: Grant Pritchard.
8. Guildford School of Acting alumnus Michael Jibson (left) received an Olivier Award for Best Supporting Actor for his role as King George III in the hit musical *Hamilton*. Credit: Pamela Raith.

WE WOULD LOVE TO HEAR FROM YOU

Talk to us

If you have any questions, thoughts or suggestions about *Your University* or any of the articles you've read in this edition, please get in touch:
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