Surrey Uni expose the unwashed hospital toilet users

Nearly 45% of hospital toilet users fail to wash their hands, study finds

Almost one in two people using a hospital toilet did not wash their hands afterwards, according to new research from the University of Surrey - raising serious concerns about hygiene compliance in high-risk environments.

In a 19-week study conducted in partnership with Bispebjerg hospital in Denmark, sensors were installed on toilet and sink pipes to unobtrusively monitor handwashing behaviour. The results showed that 43.7% of users did not wash their hands after using the toilet, with non-compliance peaking at 61.8% on certain weeks.

Despite the emphasis on hand hygiene during the pandemic, the findings suggest that regular handwashing is still not a consistent habit - even in places where cleanliness is vital for preventing infection spread.

Dr Pablo Pereira-Doel, lead author of the study and Human Insight Lab co-lead at the University of Surrey's Business School, said:

"People may assume handwashing is second nature by now – especially in hospitals and post-Covid-19 – but our data paints a different picture. In medical settings, not washing hands can directly affect patient safety. We need well-timed reminders and campaigns to get people back on track."

The study used advanced Aguardio pipe sensors to measure temperature changes in pipes, detecting water flow from both toilets and sinks. If taps weren't used within two minutes before or four minutes after a toilet flush, the event was recorded as a failure to wash hands.

Out of 2,636 flushes monitored from two public hospital toilets, 1,153 were not followed by handwashing. Non-compliance was especially high at the start and end of the day, as well as during typical mealtimes, indicating potential windows for targeted interventions such as signage, prompts, or behavioural nudges.

Professor Benjamin Gardner, co-author of the study and MSc Behaviour Change Programme Lead at the University of Surrey's School of Psychology, said:

"A key strength of this study is that it uses accurate data obtained using sink sensors, rather than relying on people being willing and able to report whether they wash their hands. Strategies that raise awareness at the crucial point in a bathroom visit and easily understood messaging about how to wash effectively – like singing Happy Birthday twice over – can help people form handwashing habits that last."

Professor Carrie Newlands, Lead for Clinical Skills at the University of Surrey's School of Medicine, added:

"These findings are worrying but not surprising. Even simple behaviours like handwashing can lapse without reinforcement. In hospitals, lapses like these can have serious consequences – for patients and for the wider healthcare system. It's time we moved beyond posters and hand gel stations to more effective behavioural strategies."

Are paper bottles the solution asks Surrey Uni

There are few excuses left for polluting our environment with plastics – and the UK can lead the charge towards a more circular future, say researchers from the University of Surrey. The comments come as the Surrey team get ready to showcase three projects tackling plastic pollution at this week's Royal Society Summer Science Exhibition in London (1-6 July).

Surrey's interactive display will present various themes – from replacing petroleum-based packaging, to capturing microplastics before they enter our rivers and seas, to recycling mixed plastic waste that would otherwise end up in landfill.

One such project is SustaPack – a collaboration aiming to reduce the 1.9 billion plastic bottles produced globally every day by developing next generation paper-based alternatives. Backed by a £1 million EPSRC grant, the project is a partnership between Surrey and sustainable packaging company Pulpex Ltd. It combines AI, thermal imaging and advanced computer modelling to improve production processes, create a new biodegradable lining, reduce energy use, and extend product shelf life – bringing low-carbon, fully recyclable packaging closer to large-scale commercialisation.

Professor Joseph Keddie, Professor of Soft Matter Physics and Royal Society Industry Fellow, said:

"The high carbon footprint of plastic and glass packaging materials demands urgent change. This collaboration is about more than simply replacing plastic – it's about designing sustainable packaging that is truly recyclable, scalable, and with a low carbon footprint. It's a powerful example of how science and industry can join forces to address the urgent challenge of the environmental impacts of plastic."

Another project on display is addressing the recovery of plastic particles from our water systems. Some products such as sunscreens, cosmetics and disposable wipes can release microplastics, with the UK government considering restrictions or bans on certain items to reduce this form of pollution. On average, 50% of microplastics found in the world's wastewater treatment plants are fibres, mainly coming from laundry. If not captured, these tiny plastics can adsorb and carry pollutants circulating in the wastewater plant that are then ingested by marine life and ultimately enter the human food chain.

Surrey engineers are developing advanced membrane filtration technology designed to recover microplastics before treated wastewater is released into rivers and seas. By optimising membrane coatings and filtration conditions, the team is working to reduce clogging and improve long-term efficiency, paving the way for cleaner water and healthier ecosystems.

Professor Judy Lee, Professor in Chemical and Process Engineering, said:

"Microplastics are a serious and growing threat to water quality and human health. These tiny particles are difficult to remove once they're in the environment and can carry harmful pollutants. Our research focuses on practical solutions that can be deployed in wastewater treatment plants to stop these pollutants at the source."

To address the challenge of recycling plastics mixed with other materials, such as carbon fibre composites, engineers at Surrey are working to make the process more viable and commercially attractive. These composites are essential across various industries, including aerospace, transport and construction due to their lightweight, strong and versatile properties, but they are notoriously difficult to recycle.

Surrey's research focuses on developing new manufacturing routes and enhancing the thermal, electrical and mechanical properties of recycled carbon fibre, making second-life applications practical and commercially appealing. Reducing waste and using reclaimed materials also help to lower the demand for raw resources.

Dr Iman Mohagheghian, Associate Professor (Reader) in Mechanics of Materials at the University of Surrey, and EPSRC researcher in residence fellow of the National Composites Centre, said:

"Our goal is to make recycled composites a reliable, high-value option for industry. Enhancing their performance and reducing manufacturing waste is an important step towards building a truly circular economy for advanced plastics, supporting the wider journey towards net zero."

At the Royal Society Summer Science Exhibition, visitors can discover Plastic Alchemy – an outreach theme led by the University of Surrey's Circular Economy Group and Fellows from the Institute for Sustainability.

The Surrey school run or walk?

Parents want their children to walk to school, but what holds them back?

Children are the power brokers that can shift parents' habits on the school run – and could be key to making healthier, greener travel choices the norm, according to a new report from the University of Surrey. Commissioned by Surrey County Council and delivered through the University's Institute for Sustainability Innovation Hub, the report looked at how schools across the UK and internationally are encouraging families to walk, cycle or wheel to school instead of driving.

The report's authors found that while families are generally supportive of safer, more active travel, they're often held back by concerns over road safety, time pressures and infrastructure. The most effective initiatives, the report argues, are those that bring together schools, local authorities, planners and families to tackle these issues head-on.

Professor Benjamin Gardner, lead-author of the report from the University of Surrey, said: "The school run is rarely straightforward. Families support safer, active travel, but if we want more children walking or cycling, we need to stop seeing this as just an issue for school staff and parents to deal with. Schemes and reward programmes can spark interest, but they won't bring about changes to the school run unless the wider system supports change. Parents worry about safety, time and whether their child can travel independently. We need a joined-up approach. Lasting change depends on schools, councils, planners and families working together to make walking or cycling feel like the easy and safe option."

Matt Furniss, Cabinet Member for Highways, Transport and Economic Growth at Surrey County Council, said: "We've commissioned this report to better understand how we can support and encourage parents, carers and children to travel to school sustainably. We're investing £5.5m over the next five years to improve road safety to encourage more walking, cycling and wheeling so children can take safer journeys, and to reduce pollution around schools. We're also continuing to deliver Feet First walking training and Bikeability cycling training to provide lifelong road safety skills for Surrey's school children. We're looking forward to working with our schools and others, to design tailored initiatives and infrastructure that will benefit children now and in the future."

The research team reviewed travel initiatives in the UK, Europe and beyond, including Canada, Australia and Brazil. They found that even young children can play a crucial role in influencing their parents' school run choices, especially when schools engage children through activities, lessons or competitions.

Surrey researchers conducted two focus groups with staff and caregivers at Surrey schools, analysed a range of international case studies, and reviewed both academic and grey literature. They used the COM-B model – which looks at capability, opportunity and motivation – to understand what stops or supports families from choosing active travel on the school run. The findings will help shape the Council's new School Travel Effectiveness of Planning (STEP) tool, designed to measure what's working – and what's not – in encouraging active school travel across Surrey.

About the Innovation Hub

The Innovation Hub is the delivery arm of the University of Surrey's Institute for Sustainability. It brings researchers together with local authorities, businesses and communities to co-create practical responses to real-world challenges. By supporting projects like the School Travel Plan report, the Hub helps translate research into action and strengthen partnerships that benefit both Surrey and the wider region.

To learn more about the project, read the full report at www.surrey.ac.uk/news/promoting-active-school-travel

Image: Benjamin Vautier Snow scene (Children leaving school) VA - PICRYL - Public Domain Media

Smarter tickets would boost bus travel

Public transport in Southern England is struggling, not just because of cost or convenience, but because it has failed to keep up with the digital age, according to a new study from the University of Surrey.

In a study published in Public Transport, researchers simulated improvements in areas like payment convenience and real-time service updates. The study found that these tech-driven changes could boost bus ridership by over 30%.

Researchers have found that simple innovations, such as easy payment systems, e-ticketing, and mobile applications, can transform public transport, boost ridership, and improve passenger satisfaction.

The study employed a novel analytical approach, Machine Learning Influence Flow Analysis (MIFA), to understand the attitudes and behaviours of bus passengers in Southern England. The team also analysed detailed survey data, which helped them identify the key factors that influence whether people choose the bus over their private cars. These factors where: addressing issues around payment convenience and real-time information can make buses far more appealing.

Dr Wolfgang Garn, one of the authors of the study and Associate Professor in Analytics at the University of Surrey, said:

"We discovered that passengers want a seamless, hassle-free experience. If paying for a bus journey feels complicated or outdated, people are more likely to opt for driving instead. By introducing smart ticketing and contactless payments, alongside mobile apps that provide real-time updates, we can not only make bus travel easier but also more attractive. This isn't just about technology, it's about fundamentally changing how people view public transport."

The study used advanced machine learning methods, including neural networks and random forests, to create predictive models from survey responses. These models enabled the researchers to identify the factors that most strongly influence bus usage decisions. By simulating improvements in passenger sentiment, such as increased satisfaction with payment methods, the MIFA framework can predict how these changes may alter people's willingness to use buses. The results suggest that these technological enhancements could increase bus ridership by over 30%.

The findings also highlight several critical issues that undermine bus usage, including inconvenient payment processes, a lack of clear information about bus routes and fares, and concerns about reliability and security. The research recommends practical

solutions such as integrated smartcard payment systems, real-time travel apps, and expanded bus lanes to reduce journey times. Together, these measures can create a public transport system that competes with the convenience of private cars.

Dr Garn continued:

"Integrated ticketing is an option that needs to be further explored. It allows passengers to travel across different public transport modes using a single ticket or system, typically a smart card, for their entire journey. This means a traveller can switch between buses, trains, trams, and other modes of transport without needing to purchase multiple tickets or navigate different payment systems – an issue that arises when governmental policies do not sufficiently guide multiple private bus transport companies. A related study I worked on demonstrated that increased frequency, low fares, and an improved bus network significantly boost bus ridership.

The future of bus travel in Southern England depends on embracing digital convenience and improving the passenger experience. With smart payments and better information at the heart of this transformation, buses can become the preferred mode of travel for many, not the last resort."

Image credit: Geoff Charles, National Library of Wales. Public domain

Surrey Uni on space mission to darken the skies

More than 8,000 low Earth orbit (LEO) satellites already orbit Earth, and projections estimate a rise to 60,000 by 2030, partly driven by the development of mega-constellations. The rate of growth means the issue of light reflecting from satellites back to Earth is pressing for astronomers and stargazers, as images from the Vera C Rubin Observatory in Chile have highlighted.

To combat this problem, satellite operators have begun experimenting with mitigation strategies, including dark coatings and changes to satellite position, though the negative impact on ground-based measurement persists. Surrey NanoSystems, with a heritage in ultra-black technologies, have developed an innovative new solution: Vantablack 310 is a handleable, customerapplied coating, resistant to the challenging LEO environment.

The technology will be trialled on Jovian 1, the first satellite mission from JUPITER – the Joint Universities Programme for In-Orbit Training, Education and Research. The mission, scheduled to launch in 2026, will carry payloads from the Universities of Surrey, Portsmouth and Southampton, AMSAT-UK, and one designed, built and tested by students from the three universities, giving them invaluable hands-on space industry experience.

One side of the shoebox-sized CubeSat will be coated with Vantablack 310, marking the first UK-led initiative to explore solutions for reducing satellite brightness. The initiative aims to not only improve space sustainability but also demonstrate the efficacy of Vantablack 310 as a hull-darkening solution. Researchers from the University of Surrey are developing ways to evaluate the experiment from Earth.

Dr Keiran Clifford, Senior Technologist and project lead at Surrey Nanosystems, said:

"The proliferation of satellite constellations is expected to bring huge societal benefits in technology areas, including global communication and remote sensing. Unfortunately, the current brightness of these satellites severely disrupts ground-based astronomy.

"Our latest coating technology, Vantablack 310, offers super-black performance across a wide range of viewing angles, while remaining robust to the challenging LEO environment. We're proud to be working with our partners at the University of Surrey to deliver innovations in the satellite sector, ensuring sustainable and equitable access to a night sky for all."

Astha Astha, the postgraduate astrophysics researcher at the University of Surrey who will develop tests to measure how much Vantablack 310 reduces light pollution when viewed from Earth, said:

"Studies show that satellite mega-constellations could increase sky brightness by up to 1% in the worst-affected regions, posing a serious threat to astronomical observations and dark sky preservation. Our project directly tackles that challenge by exploring innovative ways to reduce satellite reflectance. It brings together key areas of Surrey's expertise — astrophysics, space engineering, and nanotechnology — with Surrey NanoSystems, which itself spun out of the University's Advanced Technology Institute."

The relationship between Surrey NanoSystems and the University of Surrey is deeply rooted in research and innovation. As a spinout company in 2006, Surrey NanoSystems leveraged the University's expertise in nanomaterials and advanced

manufacturing techniques to develop its groundbreaking Vantablack® technologies.

Image: Artist's impression of a large satellite constellation in low Earth orbit circling above the LOFAR telescope. Credit: International Astronomical Union Creative Commons Attribution 4.0 International

Surrey battery leads

Scientists at the University of Surrey have made a breakthrough in eco-friendly batteries that not only store more energy but could also help tackle greenhouse gas emissions. Lithium-CO₂ 'breathing' batteries release power while capturing carbon dioxide, offering a greener alternative that may one day outperform today's lithium-ion batteries.

Until now, Lithium-CO₂ batteries have faced setbacks in efficiency – wearing out quickly, failing to recharge and relying on expensive rare materials such as platinum. However, researchers from Surrey have found a way to overcome these issues by using a low-cost catalyst called caesium phosphomolybdate (CPM). Using computer modelling and lab experiments, tests showed this simple change allowed the battery to store significantly more energy, charge with far less power and run for over 100 cycles.

The study, published in Advanced Science, marks a promising step toward real-world applications. If commercialised, these batteries could help cut emissions from vehicles and industrial sources – and scientists even imagine they could operate on Mars, where the atmosphere is 95% CO₂.

Dr Siddharth Gadkari, Lecturer in Chemical Process Engineering at the University of Surrey, and corresponding author of the study, said:

"There's a growing need for energy storage solutions that support our push toward renewable power while also tackling the growing threat of climate change. Our work on lithium-CO₂ batteries is a potential game-changer in making that vision a reality.

"One of the biggest challenges with these batteries is something called 'overpotential' – the extra energy needed to get the reaction going. You can think of it like cycling uphill before you can coast. What we've shown is that CPM flattens that hill, meaning the battery loses far less energy during each charge and discharge."

To understand why the CPM worked so well, teams from Surrey's School of Chemistry and Chemical Engineering and the Advanced Technology Institute used two approaches. First, they dismantled the battery after charging and discharging to study the chemical changes inside. These post-mortem tests found that lithium carbonate, the compound formed when the battery absorbs CO₂, could be reliably built up and removed – an essential feature for long-term use.

They then turned to computer modelling using density functional theory (DFT), which allows researchers to explore how the reactions unfold on the material surface. Results showed how the CPM's stable, porous structure offered the ideal surface for key chemical reactions.

Dr Daniel Commandeur, Future Fellow at the University of Surrey and corresponding author of the study, said:

"What's exciting about this discovery is that it combines strong performance with simplicity. We've shown that it's possible to build efficient lithium- CO_2 batteries using affordable, scalable materials – no rare metals required. Our findings also open the door to designing even better catalysts in the future."

The discovery opens new doors for developing even better low-cost, easy-to-make battery materials. With further research into how these catalysts interact with electrodes and electrolytes, lithium-CO₂ batteries could become a practical, scalable way to store clean energy, while helping reduce carbon in the atmosphere.

Yes to chocolate, tea, apples and grapes

We might have another reason to enjoy our daily cup of tea or small piece of dark chocolate, as a new study from the University of Surrey has found that naturally occurring compounds called flavan-3-ols – found in cocoa, tea, apples and grapes – may improve blood pressure and the health of our blood vessels.

The research, published in the European Journal of Preventive Cardiology, analysed data from 145 randomised controlled studies, and found that regular consumption of flavan-3-ols can lead to a reduction in blood pressure readings, particularly in people with

elevated or high blood pressure. In some cases, the average blood pressure-lowering effects were comparable to those seen with some medications.

Flavan-3-ols were also found to improve the function of the endothelium – the inner lining of blood vessels – which is crucial for overall cardiovascular health. This improvement occurred independently of blood pressure changes, suggesting a broader positive impact on the circulatory system.

Professor Christian Heiss, lead-author of the study and Professor of Cardiovascular Medicine at the University of Surrey, said:

"The findings are encouraging for those looking for accessible ways to manage their blood pressure and support their heart health through enjoyable dietary changes. Incorporating small amounts of commonly consumed foods like tea, apples, dark chocolate, or cocoa powder into a daily balanced diet could provide beneficial amounts of flavan-3-ols.

"While not a replacement for prescribed medications or medical advice, including more flavan-3-ol-rich foods in a daily routine could be a valuable addition to a healthy lifestyle, especially for those with higher blood pressure. These are findings that, although promising, require ongoing investigation."

Surrey Uni knows the display way to San Jose

A radical new approach to display screen technology could halve production costs, reduce harmful waste, and deliver brighter, more energy-efficient screens for our smartphones, smartwatches, and even certain medical devices, say researchers at the University of Surrey.

Most display screens use complex circuits made up of tiny switches called thin-film transistors (TFTs), which control when each pixel turns on or off and how bright it should be. However, building these circuits requires a lot of time, energy, water and harsh chemicals, making the manufacturing process expensive and resource-heavy.

At this year's Display Week 2025 Technical Symposium in San Jose, California (11-16 May), Dr Radu Sporea and Dr Eva Bestelink will unveil their latest research, based on a new type of electronic component called a multimodal transistor (MMT). Originally designed as a hardware AI computing element, the MMT also has the ability to simplify display circuits while improving performance and sustainability.

Dr Radu Sporea, Associate Professor in Semiconductor Devices at the University of Surrey, said:

"Our invention challenges decades of industry practice by embracing properties usually seen as flaws. In most displays, engineers try to eliminate the energy barriers that form where metals meet semiconductors because they restrict current flow. But instead of working around them, we've made those barriers central to how our transistors operate.

"Using these effects deliberately, we've shown that the electronic circuits at the heart of display screens can be made with fewer components and processing steps – reducing waste, cutting costs and improving performance. And because it works with existing materials and tools, it's a smarter, more sustainable upgrade for the screens we use every day. For the user, the reduced power requirements in operation will also mean significantly improved battery life."

The MMT's unique operation enables extremely compact, high-performance circuits that are particularly well suited to devices where size, energy use and image quality are critical – such as smartphones, tablets, smartwatches, automotive displays, and future wearable devices.

The technology is already showing promise in simulations, with real-world applications in AMOLED and microLED displays – two of the most advanced and rapidly growing areas of screen technology. It can also be integrated into current production lines with minimal disruption.

Dr Eva Bestelink, Senior Research Fellow at the University of Surrey's Advanced Technology Institute, said:

"I've been working on this technology since my undergraduate days at Surrey, where I had the idea to develop a transistor based on neural behaviour, so seeing it evolve into something with real-world potential is incredibly rewarding. We've shown that it's possible to rethink how displays are built without starting from scratch.

"The MMT lets us design circuits that perform better while also being cleaner and cheaper to make. That's a win for manufacturers, a win for users and a win for the environment. Beyond displays, it could also have major applications in areas like microfluidics, imaging arrays and hardware AI. We're still actively researching the AI potential, but the implication for revolutionising manufacturing is clear – especially if we're to achieve Net Zero."

Dr Bestelink and Dr Sporea will present their research on 15 and 16 May at this year's Display Week 2025 Technical Symposium in San Jose, California. Their invention – the multimodal transistor (MMT), now granted a US patent – builds on more than two decades of pioneering research in thin-film electronics at the University of Surrey.

Image: By Redd Angelo in Technology CC0 license

Surrey Uni Research Exposes Toll of Controlling Coaching on Athletes' Health

Controlling coaching tactics shatter athletes' wellbeing, says new study

Controlling coaching styles disrupt athletes leaving them vulnerable to physical and psychological strain, according to a new study from the University of Surrey and the Université du Québec à Montréal, Canada.

This exposes a critical flaw in current sporting culture that prioritises results over athlete welfare. The research argues that coaches who micromanage and belittle athletes are fuelling both acute stress and burnout in their teams.

The study, published in Motivation and Emotion, tracked 72 student-athletes from Université du Québec à Montréal, Canada, using daily diaries to capture their experiences and heart rate variability (HRV) measurements to assess their stress responses. This combination of psychological and physiological data provides a comprehensive picture of how coaching behaviours seep into athletes' daily experiences, affecting their motivation and mental state. Researchers analysed how athletes perceived their coaches' behaviour and then linked these perceptions to both their psychological needs (satisfaction or frustration) and their psychobiological health.

Autonomy-supportive coaches – those encouraging choice and collaboration – boosted athletes' mental resilience. In contrast, controlling tactics like public criticism and arbitrary punishments spiked acute stress and eroded long-term wellbeing.

Dr Sebastiano Massaro, Associate Professor of Organizational Neuroscience and co-author of the study at the University of Surrey said:

"It's heart-breaking to see how these controlling tactics, often masked as 'discipline' or 'tough love', are fundamentally damaging our athletes."

Florence Jauvine, at the Université du Québec à Montréal, Canada, added:

"We're not just talking about hurt feelings; we're seeing measurable increases in stress and burnout that can have long-term consequences for their careers and their lives."

The research highlights a crucial counterpoint: when coaches support athletes' autonomy – giving them choices, acknowledging their perspectives, and encouraging their growth – it fuels their psychological needs, leading to greater engagement and acting as a buffer against burnout. The data shows a powerful connection between autonomy-supportive coaching, need satisfaction, and positive athlete outcomes.

Dr Sebastiano Massaro continued:

"We urge sporting organisations and governing bodies to implement urgent changes. This includes mandatory training for coaches at all levels, focusing on autonomy support and the detrimental effects of controlling behaviours. A shift in emphasis is required, moving away from a win-at-all-costs mentality towards a model that prioritises the holistic well-being of athletes."

Supporting Bees and Pollinators in Your Epsom and Ewell Garden

Expert Advice on Supporting Bees and Pollinators in Your Epsom and Ewell Garden

Epsom and Ewell residents are being offered expert advice on how to make their gardens more welcoming for bees

and other vital pollinators, thanks to insights from local academics.

Will Wilkinson and Dr Jorge Gutierrez Merino, both from the University of Surrey, have shared practical tips for nurturing these important species. Mr Wilkinson is a lecturer and leads The Beekeeping Project at the university, while Dr Gutierrez Merino is a senior lecturer.

Their advice highlights that while honeybees are important, it's crucial to support the many other pollinator species that are often more vulnerable.

Key recommendations for local gardeners include:

- **Recognise the bigger picture:** While honeybees are "kept species," conservation efforts should also focus on other less conspicuous pollinators vital to our food web, many of which are more at risk.
- Plant native and heritage varieties: Opt for native plant species and traditional heritage varieties in your garden.

 Not all modern plants produce the quantity of pollen and nectar that pollinators require.
- **Ensure year-round food sources:** Aim for a diverse range of plants that flower across different seasons, including trees, to provide a continuous supply of food for pollinators.
- Create a "rough patch": Leaving a corner of your garden unkempt, perhaps with a pile of old sticks, allows it to overgrow. This helps retain moisture and creates a humid microclimate beneficial for various invertebrates.
- Consider #NoMowMay: Avoid mowing your lawn throughout May. This allows native plants to flower and provides a crucial habitat for insects to thrive.
- Review pet treatments: If your pet regularly receives flea or worm treatments, discuss a risk-based approach with your vet instead of monthly preventative applications. Residues from some spot-on treatments have been detected in UK habitats and can negatively affect invertebrate survival.

The Beekeeping Project at the University of Surrey

The advice stems from work connected to The Beekeeping Project at the University of Surrey. Led by Will Wilkinson and funded by the Student-Staff Partnership Project and Forever Surrey, the initiative provides students, staff, and the wider university community with opportunities to learn about beekeeping, the environment, and develop new skills. It also aims to support student experience and mental health.

The project has fostered interdisciplinary research, including studies into the beehive microbiome as an indicator of honeybee health, led by PhD student Kerry Barnard and Dr Jorge Gutierrez-Merino. This research investigates how bacterial communities within the hive correlate with the health and disease status of bees and other pollinators.

Through workshops, teaching materials, and practical experience, The Beekeeping Project has encouraged discussion and shared knowledge about bees, gardens, and nature, emphasising the importance of all bee species for biodiversity, ecology, and sustainability – principles central to the University of Surrey's ethos.

Residents interested in learning more can note that Will Wilkinson and Dr Jorge Gutierrez Merino are available for interview by contacting mediarelations@surrey.ac.uk.