

# NETWORK

NOTTINGHAM TRENT UNIVERSITY'S MAGAZINE FOR ALUMNI AND FRIENDS



# INNOVATING SINCE 1843

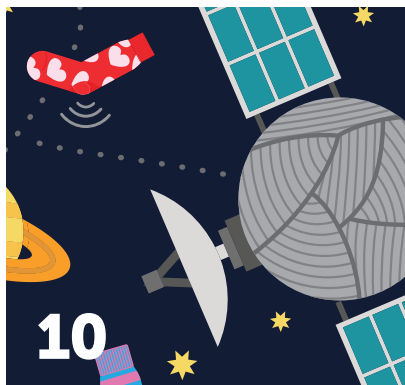
NOTTINGHAM   
TRENT UNIVERSITY

# NETWORK

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**Network** is a Nottingham Trent University publication.

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# VICE-CHANCELLOR'S WELCOME



It gives me great pleasure to welcome you to this special issue of *Network* – the magazine for our alumni, supporters and friends.

2018 has been a year of remarkable achievement, and we have many reasons to celebrate.

Nottingham Trent University is currently *Times Higher Education* "University of the Year".

We have also picked up some of the sector's most prestigious awards, including the *Times and Sunday Times Good University Guide 2018* "Modern University of the Year", and the highest "gold" rating in the Government's Teaching Excellence Framework in recognition of the consistently outstanding outcomes we deliver for our students.

Furthermore, we soared to 16th place in the *Guardian University Guide 2019* – our highest ever position and a jump of 18 places.

These accolades reflect our ambition to transform the life chances of young people who study with us (page 04). More than four out of five of our 2017 graduates were in jobs or training that required a degree six months after leaving university.

In 2018, we also celebrate our 175th anniversary.

The Nottingham Government School of Design was established in 1843 to support the development of skills and innovations within the textiles industry in Nottingham. This focus on skills and innovations still characterises NTU today. It also makes us the longest

established post-school educational institution in the East Midlands (see page 03).

Today, our research drives innovation in business and public services and makes major contributions to the civic and cultural wellbeing of our city, county and wider region.

I hope you enjoy reading about some of our recent initiatives: from investigating the effects of excessive social media use (page 08), to urban farming systems (page 13), materials of the future (page 10), and breakthroughs in cancer research (page 14) and airport security (page 12).

None of this would have been possible without your continued support. Through volunteering your time and expertise (page 20), and providing invaluable, real-world learning opportunities, you help to enrich the experience of our students and strengthen the positive impact we have on our community and society.

As the university sector undergoes important changes, and as the UK redefines its role in the world, we remain in a strong position and continue to invest for the future.

Finally, we will soon be launching our new strategy "NTU 2025", and we need your help, as we seek to re-envision what it means to be an elite university in the 21st Century (page 06).

You – our alumni, friends and partners – all have a role to play as we work together to shape a future, of which we all can be proud.

Best Wishes

**PROFESSOR EDWARD PECK**  
VICE-CHANCELLOR





Dear alumni and friends,

Over the last 18 months, it has been a delight to meet many of you in person, and heartening to see our worldwide community of more than 200,000 members continue to grow.

#### NTU has had an exceptional year.

We hope the stories on the pages of this special, commemorative issue of *Network* reflect the transformation that is taking place across the University, and give you a taste of the multitude of opportunities to stay connected and get involved.

**When did you last visit campus?** Whether it is attending one of our Distinguished Lectures (page 36), or joining Nottingham Business School in celebrating 40 years of excellence in business education in 2019 (page 05), our vibrant programme of events in Nottingham, London and increasingly internationally, is a great way to stay in touch with your University, and with fellow graduates and friends.

We take pride in being an integral part of Nottingham's civic and cultural fabric, and 2018 saw the opening of the new five storey Confetti building in our Creative Quarter Campus, the unveiling of Metronome – the spectacular new live performance venue (page 24).

The Alumni Fellowship Programme, now NTU-wide, mobilises more than 850 Alumni Fellows to give thousands of hours of support across many academic disciplines every year, engaging 3,000 students in the academic year 2017/18 alone (page 20).

Thank you to all of you who have given back so generously. It is my pleasure to announce that, in response to demand, we are opening up the Fellowship Programme to non-alumni. If you feel that our students would benefit from your time and expertise, we want to hear from you.

By now, you will be aware of **#NTU2025** – our new five-year strategy, to launch in 2019. With a rich, tradition of innovating since 1843, and transformative, welcoming and personalised student experience being at the heart of our mission, we consider our graduates, friends and supporters to be important lifelong stakeholders.

We will soon be conducting an online survey asking for your opinions and feedback, to help shape our future.

Thank you for your continued support. We invite you to be part of what comes next, and look forward to connecting with you.

With warmest wishes,

**MAGDALENA DOULEVA**  
DIRECTOR OF DEVELOPMENT AND ALUMNI RELATIONS

## OUR TIMELINE

### A proud history of delivering education to meet the needs of society

Nottingham Trent University was formed by the amalgamation of several separate education institutions, the earliest of which was Nottingham Government School of Design which opened in 1843. Read on to find out more about our rich history and see just how far we've come.

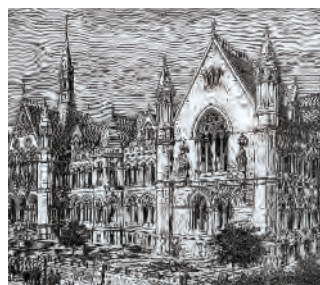
#### 1843

Nottingham Government School of Design becomes one of the first purpose-built art and design schools to open. It is established to provide training and education in response to fears that the nation is falling behind Europe's designers.

**STUDENTS – AGED 8 TO 38 – PAY TWO SHILLINGS A MONTH**

#### 1881

The University College Nottingham launches in the purpose-built Arkwright building. Once again, this is a local response to a national concern that Great Britain is being overtaken by our continental neighbours in the fields of science and technology.



#### 1945

As the war draws to a close, there's a critical need for highly trained engineers and technologists. Nottingham and District Technology College opens in the then ultra-modern Newton building...

#### 1949

...followed closely by the launch of a farm institute at Brackenhurst, designed to equip farmers and agricultural workers with new scientific skills.

**BRACKENHURST IS HOME TO 500 ACRES OF LUSH NOTTINGHAMSHIRE COUNTRYSIDE – THE EQUIVALENT OF 370 FOOTBALL PITCHES**



#### 1959

The Nottingham College of Education opens on what is now the Clifton Campus.

**THE CLIFTON CAMPUS HAS A THRIVING COMMUNITY OF ABOUT 8,000 STUDENTS TODAY – INCLUDING THOSE FROM THE NOTTINGHAM INSTITUTE OF EDUCATION**



#### 1964

Nottingham Regional College opens and is soon linked with...

#### 1966

...a new Nottingham College of Design.

#### 1971

Trent Polytechnic becomes one of the first polytechnics to be approved in the UK, merging most of the various colleges, attracting students from further afield and growing to twice the size of the nearby University of Nottingham. The new polytechnics are a government idea to meet the increasing demand for vocational, professional and industrial-based courses, and create alternative degree providers.

## 1974

The Polytechnic merges with the College of Education – despite the fact that the College wanted to preserve its independence.

## 1988

Trent Polytechnic breaks free of Council control, changes its name to Nottingham Polytechnic and triggers a 53 % increase in applications as people realise where it is actually located! Nottingham Polytechnic becomes the most popular in the country.

## 1992

Under the Further and Higher Education Act, polytechnics and some colleges are now eligible for full university status. Nottingham Polytechnic becomes Nottingham Trent University – with 61 % of staff voting in favour of the change. Professor Ray Cowell is appointed the first Vice-Chancellor.

## 1999

Brackenhurst merges with the University and becomes its third campus.

**TODAY, BRACKENHURST IS UNDERGOING A MULTIMILLION POUND REDEVELOPMENT, INCLUDING A NEW RECEPTION AND ENVIRONMENT CENTRE AND STUDENT ACCOMMODATION**



## 2003

Professor Neil Gorman replaces Ray Cowell as the University's Vice-Chancellor.

## 2008

Sir Michael Parkinson is appointed as the University's first Chancellor.

**"IN TELEVISION, I HAVE ALWAYS WORKED WITH YOUNG, AMBITIOUS PEOPLE AND I AM KEEN TO BE INVOLVED IN THIS UNIVERSITY, WHICH HELPS TO REALISE THE ASPIRATIONS OF THE YOUNG"**

SIR MICHAEL PARKINSON



## 2010

World-renowned golfer Lee Westwood opens the state-of-the-art sports facility at Clifton.

**"I'M REALLY HONOURED THAT THIS FACILITY WILL BEAR MY NAME. I HAVE FOND MEMORIES OF RECEIVING MY HONORARY DEGREE HERE IN 2007"**

LEE WESTWOOD



## 2011

Sir David Attenborough officially opens the regenerated Newton and Arkwright buildings.

**"WHAT COULD BE MORE EXCITING, LUXURIOUS AND STIMULATING THAN A GREAT SPACE LIKE THIS IN THE HEART OF YOUR UNIVERSITY"**

SIR DAVID ATTENBOROUGH



## 2014

Sebastian Coe officially opens NTU's new Students' Union building on the City Campus. Professor Edward Peck replaces Neil Gorman as Vice-Chancellor.

## 2015

The Confetti Media Group becomes NTU's fourth site: the Creative Quarter Campus, offering degrees in subjects such as games art, visual effects, music technology and live events production.

## 2016

NTU receives the Queen's Anniversary Prize for Higher and Further Education. It is the highest national honour for a UK university and recognises the institution's world-class research.

## 2017

NTU wins a host of prestigious awards: Modern University of the Year in *The Times* and *Sunday Times Good University Guide 2018*, UK University of the Year in the *Times Higher Education Awards* and a gold rating by the government for teaching and learning. Sir John Peace is appointed as the new Chancellor.

**"THE UNIVERSITY HAS MUCH TO BE PROUD OF, AND MAKES A HUGE CONTRIBUTION TO THE ONGOING GROWTH AND CULTURAL DEVELOPMENT OF THE REGION"**

Sir John Peace



## 2018

NTU places 16th UK university in *The Guardian University Guide 2019* – a league table that is based on ratings in the areas that matter the most to young people, such as student satisfaction and employment outcomes. The University also achieves its highest ever ranking in the *Times and Sunday Times Good University Guide*.

**THE CONSISTENT MESSAGE ACROSS ALL OF THESE MEASURES OF ESTEEM IS STRAIGHTFORWARD: NTU IS NOW ONE OF THE UK'S OUTSTANDING UNIVERSITIES**



# PUTTING STUDENTS AT THE HEART OF OUR WORK

It is an incredible time to be part of the NTU community. The last year has seen us climb the league tables and pick up some of the sector's most prestigious awards, including the coveted *Times Higher Education* University of the Year award. But behind all the glitter lies the thing we are most proud of – the power to transform lives.

## What makes us different

For NTU, engagement starts before students even set foot on campus. Our schools outreach programme promotes the benefits of higher education to more than 30,000 pupils every year, and helps them get ready for university and life after school. And once they are here, our students find a stimulating learning environment, career- and life-enhancing opportunities, such as volunteering or studying abroad, and valuable work experience on every course.



Deputy Vice-Chancellor Professor Eunice Simmons

"What makes us different? We've genuinely worked hard to listen to what our students want and have to say," explains Deputy Vice-Chancellor Professor Eunice Simmons. "Our

Students' Union is very much a partner, and we work with them closely to make sure everything we do involves student views.

"We've also turned our research capabilities to the question of what makes an outstanding student experience. In the same way that an

academic would embark on a research project, we've used that same rigour to improve the student experience and raise our ambitions. We are among a small group of universities in the sector who use a lot of data to evidence what's working and what's not, and we are not afraid to measure things and make improvements."

## WHAT MAKES US DIFFERENT? WE'VE GENUINELY WORKED HARD TO LISTEN TO WHAT OUR STUDENTS WANT AND HAVE TO SAY

PROFESSOR EUNICE SIMMONS  
DEPUTY VICE-CHANCELLOR

One significant award this year was a gold rating in the government's Teaching Excellence Framework (TEF). We were one of only 59 out of 295 universities to gain the highest rating. Professor Simmons says that a significant reason for us winning was our "innovative pedagogy that specialises in active learning and making sure students are challenged and exposed to real-world problems."

## Social mobility at scale

One of Professor Simmons' passions is for an NTU education to transcend the student's background. Our Success for All strategy aims to close the success gap between students from low-income backgrounds and the rest of the student body.

Supported by an innovative Student Dashboard – which tracks student engagement by recording activities such as library use, IT logins, attendance and coursework submission – Success for All is a cross-University programme that provides bespoke, individual help to every student.

"Our research shows that students who take a sandwich year [a year-long work placement] have the same graduate outcomes and successes, regardless of their background," says Professor Simmons. "So we do everything we can to support and encourage sandwich years, and in fact, any kind of work placement – the benefit is truly transformational.

"I think what we are proving is that by taking a personalised, evidence-based approach, it's possible to do social mobility at scale."



## NOTTINGHAM TRENT UNIVERSITY IS ENJOYING A PERIOD OF UNPRECEDENTED SUCCESS.

THE TIMES AND SUNDAY TIMES GOOD UNIVERSITY GUIDE 2019



### Raising our ambitions

While it has been a fantastic year at NTU, Professor Simmons is aware that there is even more we can do to transform lives. "As a University we are more popular than ever. What we need to do now is raise our ambitions even higher and maximise opportunities for students and graduates by building on our partnerships and raising our profile around the world.

"Our alumni and friends have a key role to play in that. Hundreds of former students are helping us in many ways. We are interested in what you do and the contribution you make to society – together we can achieve great things." **N**



Celebrating success: Nottingham Business School

# ON TOP OF THE WORLD

**Nottingham Business School receives EQUIS (EFMD Quality Improvement System) accreditation – the highest international benchmark of excellence for business schools.**

Fewer than 1 % of the world's business schools – and only 19 out of 130 in the UK – achieve both EQUIS and AACSB (Association to Advance Collegiate Schools of Business) accreditation. Last year Nottingham Business School (NBS) became one of them. It is a significant achievement that places the School, which prepares to celebrate its 40th anniversary in 2019, firmly among the most prestigious in the world.

The landmark recognition is testament to the rigorous, innovative work of the School's academic and professional services teams. Together they are delivering a sustainable and internationalised student experience, and ensure NBS continues to be known as a leader in personalisation and experiential learning.

The School's profile and reputation are boosted further by NBS being shortlisted for Business School of the Year at the *Times Higher*

*Education Awards*, as well as being ranked in the top 95 European Business Schools and one of its flagship programmes, the Masters in Management, being ranked in the Top 100 worldwide by the authoritative *Financial Times* ranking.

**AS WE PREPARE TO CELEBRATE 40 YEARS OF EXCELLENCE IN BUSINESS EDUCATION, OUR MISSION TO DELIVER EDUCATION AND RESEARCH THAT COMBINE ACADEMIC EXCELLENCE AND IMPACT UPON BUSINESS AND SOCIETY HAS NEVER BEEN MORE RELEVANT.**

PROFESSOR BABACK YAZDANI,  
DEAN, NOTTINGHAM BUSINESS SCHOOL



# INNOVATING SINCE 1843





**This year we celebrate 175 years since the opening of our founding college, the Nottingham Government School of Design. It was launched to meet demand for innovation and skills – a mission that still shapes us today.**

It has been a special year for NTU. Not only does 2018 mark our 175th anniversary, this year, we celebrate becoming the 16th UK university in *The Guardian University Guide 2019* league table and winning a string of awards and accolades that affirm the profound impact our University has on society. We also achieved our highest ever ranking in the *Times and Sunday Times Good University Guide*.

Almost 30,000 students studied with us last year – a quarter of whom came from families with a combined income of £15,000 or less. We employed more than 4,000 staff and created another 6,500 jobs, mostly in the local community. We continued to invest in incredible new facilities, and our outreach team worked with 30,000 school pupils.

“While we are proud of our achievements, we can’t afford to rest on our laurels,” says Vice-Chancellor Professor Edward Peck. “Over the coming years we anticipate significant shifts in students’ and employers’ expectations, and in the skills, knowledge and resilience that young people will need to thrive in tomorrow’s world.”

As our history shows, we have always been an institution ready to adapt to meet the needs of a changing society.

## **Tackling society’s challenges**

It is not just student and graduate lives that NTU is improving. Whether it is tackling behavioral and social media addictions (page 08), developing a new blood test for prostate cancer (page 14), keeping millions of airline



Professor Nigel Wright

## **AT NTU WE SHAPE PEOPLE’S LIVES AND OUR SOCIETIES THROUGH OUR RESEARCH AND ENTERPRISE**

PROFESSOR NIGEL WRIGHT,  
DEPUTY VICE-CHANCELLOR – RESEARCH AND INNOVATION

passengers safe (page 12), or tackling food security (page 13), our world-class researchers are addressing some of humanity’s biggest problems.

“Research that shapes lives and society is central to our mission and the achievement of our aims”, says Professor Nigel Wright, Deputy Vice-Chancellor – Research and Innovation.

We now have five broad and compelling research themes – Health and Wellbeing, Medical Technologies and Advanced Materials, Global Heritage, Sustainable Futures, and the Safety and Security of Citizens and Society. We are particularly focused on developing early-career researchers and we make sure our people get experience of and exposure to research, teaching, as well as business, if they’re interested in commercialising their work.

## **Supporting organisations**

We support thousands of businesses of all sizes through research collaborations, training, work placements, graduate talent and more.

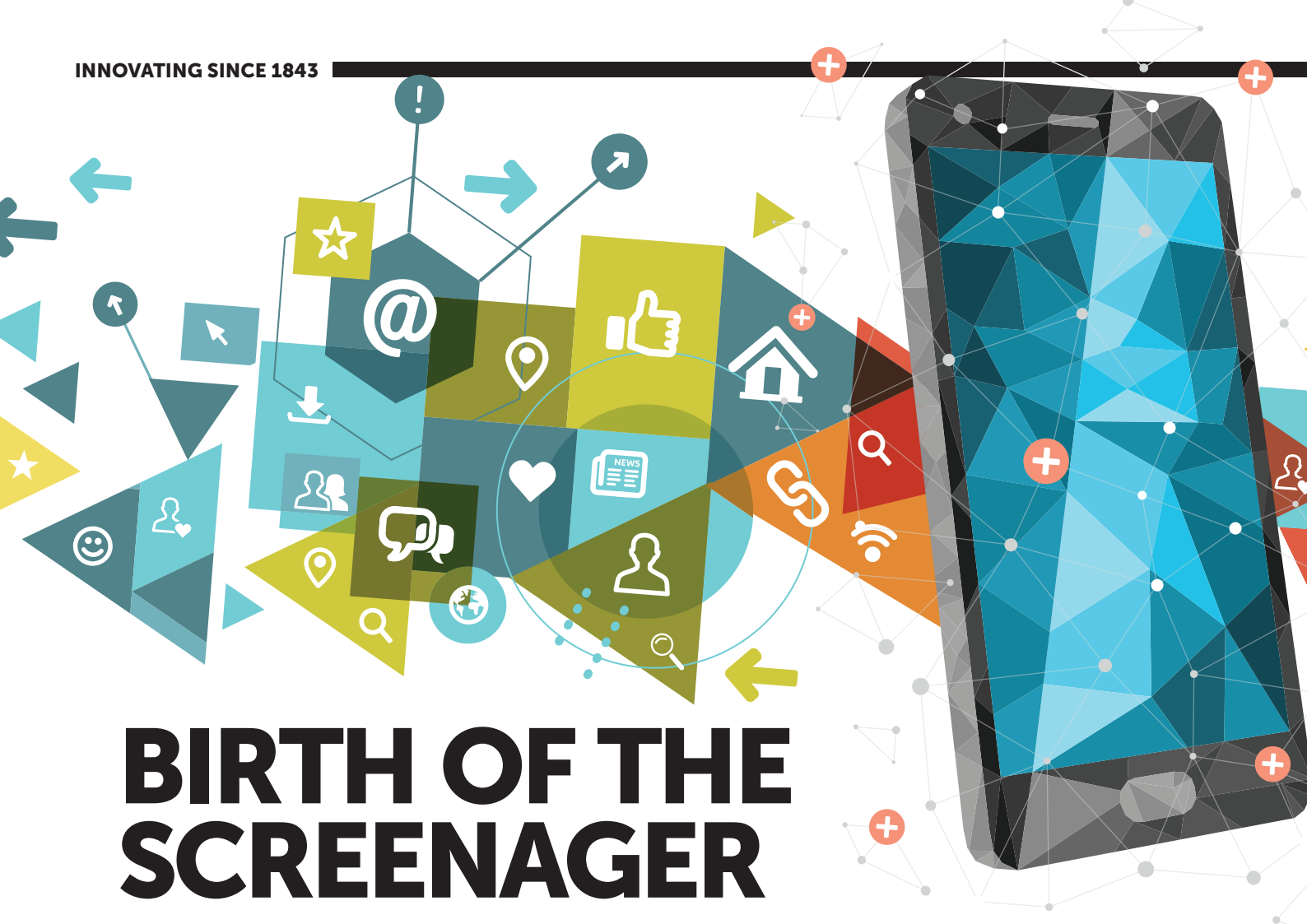
Recent strategic partnerships include those signed with construction company Morgan Sindall and the NHS, which will ensure closer collaboration, open up more opportunities for students and allow our partners to be involved in and benefit from research and innovation. 

*Innovating since*  
**1843**  
NOTTINGHAM TRENT UNIVERSITY 

## **BE PART OF WHAT COMES NEXT**

NTU is developing an ambitious new strategy to raise our sights still higher and to meet the needs of future students, graduates, employers and society, and we want you, our alumni, to have a say. We value your views and experiences, and will be sending out a survey in November. Make sure we have a valid email address for you by completing the enclosed ‘update form’ so that we can keep you informed of the latest developments.

**#NTU2025**



# BIRTH OF THE SCREENAGER

Researchers at NTU are investigating the beneficial and detrimental effects of smartphones and social media on adolescents and young adults.

**A**s a parent of what he calls three 'screenagers', Distinguished Professor of Behavioural Addiction Mark Griffiths knows first-hand how technology plays a key role in young people's lives.

While fellow parents may get frustrated with their own children's habitual screen time, Mark says his team's research shows that the vast majority of people are not genuinely addicted to social media.

"Speak to 50 psychologists and they'll give you a different definition of what it means to be 'addicted', but by my definition – in essence, an activity that clinically impairs and compromises somebody's life, including their relationships or their education or occupation – very few people are actually addicted," he says.

"What's more common though are people whose use impinges on aspects of their life. Our research shows that a small but significant minority appear to have, at the very least, a problematic use of social media."

## Classroom concerns

Colleague Dr Daria Kuss, who has written books on Internet addiction and leads our new MSc in cyberpsychology, agrees and says there's growing concern among teachers and parents about smartphone and social media use – including in the classroom.

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**IT'S NOT ABOUT SAYING WHAT YOU'RE DOING IS GOOD OR BAD, IT'S ABOUT EDUCATING PEOPLE TO USE TECHNOLOGY IN A MORE SOCIALLY RESPONSIBLE WAY.**

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PROFESSOR MARK GRIFFITHS  
DISTINGUISHED PROFESSOR OF BEHAVIOURAL ADDICTION

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"What we're seeing is that communication and conversation patterns are changing and, to a certain extent, that may lead to problematic behaviours," she says. "In France, phones are banned in schools, and that may be something we see here in the future."

"We've recently written a report for the Parliamentary Science and Technology Committee outlining the extent to which social media use can be excessive and lead to mental and physical health problems. Once we recognise there is a problem, then this can lead to further research into this area, because at the moment the research base globally is very much in its infancy."

## Educating users

There is a growing scientific evidence base to suggest excessive social media use in both adolescence and emerging adulthood may lead to symptoms traditionally associated with substance-related addictions and behavioural addictions, such as gambling addiction.





Mark, whose research into behavioural addiction spans decades and has had a major impact on the way gambling is regulated worldwide, now hopes NTU's work will encourage social media companies to do more to care for their customers.

"Every gambling company wanting an operating licence has to show what it's doing to protect players and minimise harm, and I'd like to see something similar for video game and social media companies.

"The great thing about online operators is that they have huge databases of every single keystroke a user makes. Using this data there are simple things companies can do to empower their users." Examples include providing tools to let people cap their time or letting them know how long they've spent on a certain app, either continuously or over a specific period of time.

"It's not about saying what you're doing is good or bad – you may feel spending 23 hours last month on Instagram is perfectly fine – it's about

educating people to use technology in a more socially responsible way."

Common factors that are associated with problematic and addictive social media are personality factors, such as neuroticism and extraversion, as well as psychological states, such as FoMO (i.e., the fear of missing out) and nomophobia (i.e., 'no mobile phone phobia').

"I'm not against social media as I'm a regular user myself. I really believe that the advantages of it far, far outweigh the disadvantages. But any activity that takes you away from other things you should be doing is where I've got my concerns."

It's a concern many no doubt share, but one NTU is leading the way in helping to address.

### Students join new cyberpsychology course

As technology develops, more and more digital companies will need a better understanding of the effects their products can have, opening up new research and career opportunities for graduates. With this in mind, NTU has launched one of the first MSc Cyberpsychology courses in the country.

"Our behaviours are becoming increasingly mediated through technology and I think we need to understand what that means for us from a psychological perspective" says Daria, the course leader. "This course will be relevant to any company with an online presence, not just the Googles and Facebooks of the world."

Search cyberpsychology at [www.ntu.ac.uk](http://www.ntu.ac.uk) to find out more. **N**



### Celebrating our history

At an event in May to mark our 175th anniversary, alumni and friends heard from Professor Mark Griffiths and an expert panel on research into the effects of social media use. Entitled, *Excessive and Problematic Use of Social Media in Adolescence*, the presentation made a series of recommendations on how to tackle the issue, including the establishment of a Working Party by the Department of Health, and the development of materials for the National Curriculum.



## Knitted satellite mesh antennae, socks that monitor diabetic patients and seats that tell when pilots and drivers are stressed – welcome to the materials of the future.

**H**igh-tech electronics and textiles might seem like worlds apart, but at NTU they're being brought together to create innovative products that are improving healthcare, defence, aviation and communications.

The research is the work of the Advanced Textiles Research Group, led by Professor Tilak Dias. The group's broad scope and its focus on fusing scientific, engineering and design disciplines to create electronically active smart textiles, make its research unique nationally and internationally.

A recent innovation to come out of the group are 'smart socks' that allow doctors to remotely monitor diabetic patients.

The Smart Sock System uses tiny sensors – thermistors – which are less than a millimetre long to monitor foot temperature. The thermistors are embedded into the yarns of the socks and are too small to be seen or felt by the wearer. Using Bluetooth technology, the socks send temperature data via the patient's mobile phone to the doctor's computer.

People with diabetes can have reduced nerve function, leading to severe foot ulcers and a high risk of infection, gangrene and even amputation. A temperature difference between the two feet can be one of the first signs of an ulcer forming. It's believed that temperature monitoring can reduce diabetic foot ulcers by up to 72%.

### High anxiety

Similar technological applications are also being explored in the field of aviation, where Tilak and colleagues are developing materials for cockpit seats to monitor pilot anxiety levels.

Indicators of stress, including a variable heart rate, perspiration and body temperature, are captured through a range of sensors embedded into the yarns of the seat cover.

"By using smart textiles we're able to provide new prognostic and diagnostic techniques for pilot monitoring in a

completely non-intrusive way," says Tilak. "This will enable the collection of data that will indicate the psychological experiences a pilot goes through while navigating a plane, potentially through unknown situations." This information can then be used to improve pilot training and reduce workload during a real flight.

### Thinner than a human hair

Flying even higher, the research group is collaborating with space technology company Oxford Space Systems to knit satellite mesh antennae using gold wire that's thinner than human hair.

"Few people associate knitting with high-end space technology," says Tilak. "However, due to the advancements in knitting technology, we can now knit an antenna that's extremely lightweight, cost-effective and robust enough to withstand solar radiation."

**WORKING WITH THE ADVANCED TEXTILES RESEARCH GROUP AT NTU AS A PROJECT PARTNER IS AN ABSOLUTE PLEASURE. THEY'RE A FANTASTICALLY FOCUSED AND INTELLIGENT GROUP OF PEOPLE. WE'RE ALWAYS PLEASANTLY SURPRISED WITH HOW QUICKLY THEY GET THINGS DONE**

DR ASH DOVE-JAY, PROJECT MANAGER,  
OXFORD SPACE SYSTEMS, HARWELL SPACE CLUSTER

The knitted antenna will open like an umbrella and form a parabolic shape to reflect high-frequency radio signals.

"By making an antenna as lightweight as possible, we can save on valuable materials and make the technology easier to deliver to space," adds researcher and senior lecturer Will Hurley.

"And by applying novel knitting techniques we can eradicate waste from the manufacturing process and save on valuable resources."

Go to [www.ntu.ac.uk/research](http://www.ntu.ac.uk/research) to find out more about these and other inventions by the Advanced Textiles Research Group.

### 'Space cloth' aims higher

A PhD student who invented an incredibly flexible new non-woven material is raising funds to take her creation to the next level, realising its exciting potential as a smart textile.

When Sonia Reynolds brought her idea to our Advanced Textile Research Group, the team took her on as a PhD student to develop a novel manufacturing process.

Nicknamed 'space cloth', Zephlinear is unlike traditional woven or knitted materials. Instead, it's made from a new technique known as yard surface entanglement.

"Because of the material's linear channels of yarn, it has great potential to be used as a smart textile," Sonia explains. Tilak, who leads the University's Advanced Textiles Research Group, said: "Zephlinear is a remarkable development in an industry which is advancing at an incredible pace."

The material is much less labour intensive than traditional woven fabrics, and is also lighter, more flexible and more environmentally friendly to produce.

Sonia has already gained a lot of industry attention for her invention, and won the 2016 Wool Innovation Prize from The Worshipful Company of Woolmen.

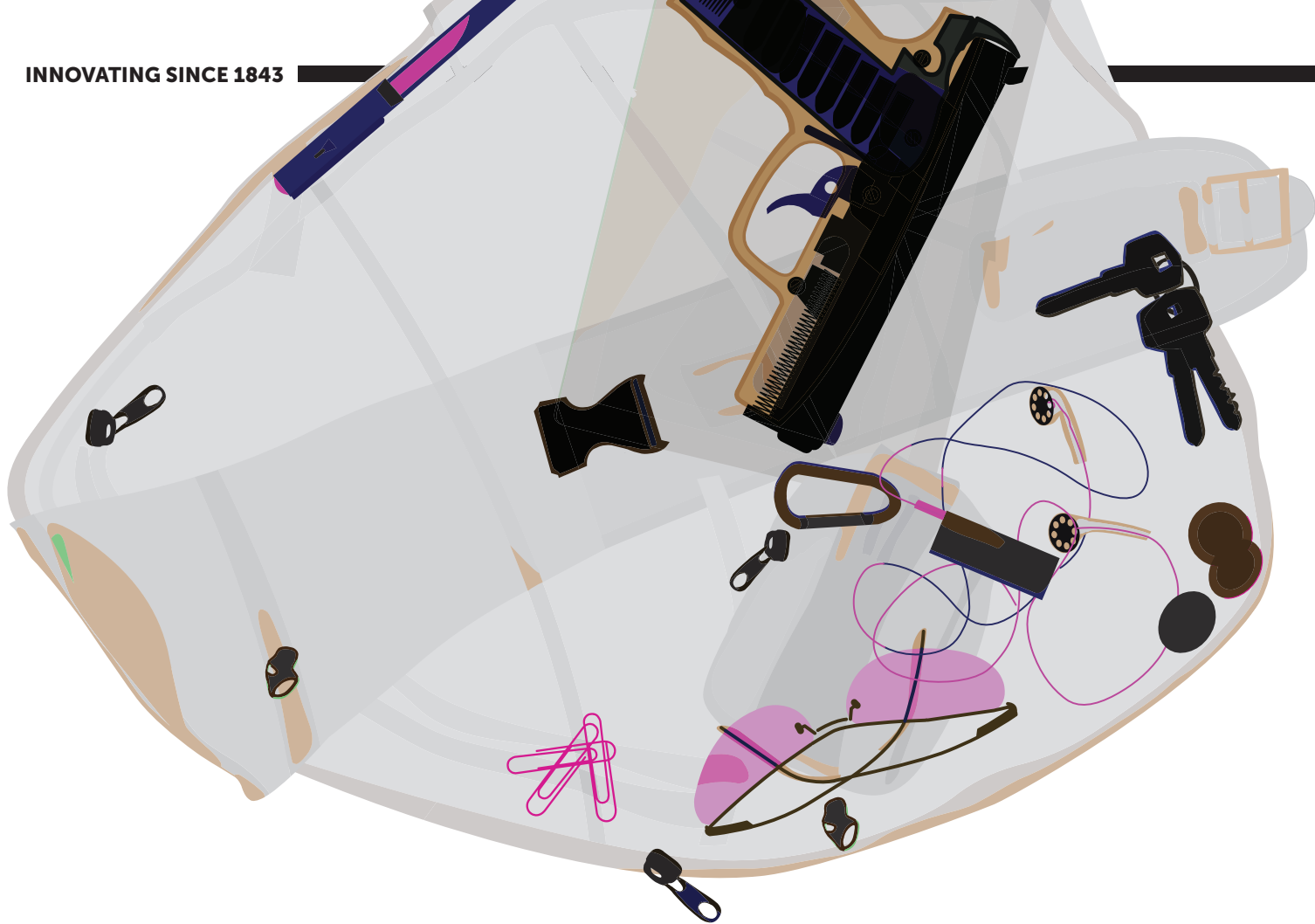
She's now launched a Kickstarter campaign to raise funds for further research and to create a new textile machine that will automate Zephlinear production.

Visit [www.zephlinear.com](http://www.zephlinear.com) to find out more. 





# KNITTED SATELLITES



# SAFER SKIES

**Professor Paul Evans' work into 3D X-ray scanners has made air travel safer for millions of people.**

**N**ext time you fly off on holiday, there's a good chance your luggage will be scanned by technology developed at NTU.

Paul Evans, Distinguished Professor of Applied Imaging Science, created one of the world's most advanced 3D X-ray scanning systems. The technology improves the detection of weapons and explosives hidden in luggage, and can be found in thousands of airports worldwide.

As a result of this pioneering research, Paul was awarded the Dennis Gabor Medal and Prize from the Institute of Physics – joining a list of winners that includes inventor of the World Wide Web, Sir Tim Berners-Lee.

"I'm very gratified to receive this prestigious award for our research and its impact upon the security screening industry," Paul says. "I'm delighted that the importance of this field of research and my own group's contribution to it have been recognised in this way."

His research was also a major factor in the University being awarded the Queen's Anniversary Prize for Higher Education in 2015 – the highest national honour for a UK university. Paul was also selected to receive the *Times Higher Education* Award for Outstanding Contributions to Innovation and Technology in 2016.

## DENNIS GABOR MEDAL AND PRIZE FROM THE INSTITUTE OF PHYSICS

He's currently leading a \$5 million research programme for the US Department of Homeland Security to develop next-generation 3D material-specific X-ray scanners. These will help to reduce false alarms and identify in milliseconds materials such as narcotics, plastics, liquids and all types of explosives.



Professor Paul Evans

## Breaking news

We are delighted to announce Paul has been awarded a prestigious Royal Society Wolfson Fellowship to further his ground-breaking work in X-ray imaging.

The fellowship is funded in partnership by the Royal Society and the Wolfson Foundation and is awarded to individuals of proven outstanding ability to undertake independent and original research. **N**



# FEEDING THE WORLD IN THE 21<sup>ST</sup> CENTURY

**How do you balance our planet's finite resources with its ever-growing population? Or tackle climate change in the face of constantly increasing consumption? Building a strong, sustainable future is one of the most crucial challenges of our time, and at NTU, we are using Nottinghamshire as our living laboratory to develop and pilot practical solutions to global problems.**

**B**y 2050 the world population will have reached more than 9 billion, with nearly 80% living in an urban environment. To feed these swelling urban populations sustainably, cities must become smarter and produce more food locally.

At NTU our researchers are exploring ways to improve crop yields, use resources more efficiently and develop new urban farming systems that provide fresh, safe, nutritious food year round.

With Brexit on the horizon and around 70% of the UK's fruit and vegetables coming from the EU, a major rethink of our food systems and sourcing is urgently needed.

## A radical rethink

"We believe that food security demands a radical rethink of agriculture," explains Professor Chungui Lu. "One thing we're exploring is vertical farming – where crops are grown in vertical layers and can be carefully controlled. In this way, we can use cutting-edge technology like precision control systems and advanced lighting to optimise crop production and quality."

Urban agriculture allows us to offset inefficient transport chains and produce food where people live – all with a range of cascading benefits: reduced carbon footprint, increased nutrients, fresher food, far less food waste, and increased food security.

Additionally, vertical farming provides opportunities for social interaction, and promotes community cohesion, self-sufficiency, citizen health and wellbeing, and the creation of local jobs.



Professor Chungui Lu (left) with Research Fellow Zhonghua Bian in the Shipping Container Farm showcase at Nottingham Trent University

There is huge potential in this area and our work has attracted support from a number of national research bodies and international institutions. "Our research is already helping many countries commercialise urban farming systems and create safe, efficient and sustainable food production," adds Professor Lu.

## A focus on sustainability

Food security is part of our wider, cross-disciplinary work on sustainability, and is aligned with the United Nations' Sustainable Development Goals, which aim to end poverty, protect the planet and ensure prosperity for all.

Other sustainability research at NTU includes investigating ways to manage natural water resources, making cities

greener through mobility, technologies and infrastructures, and developing ways to reduce unnecessary consumption of energy and materials. **N**

**OUR RESEARCH IS  
ALREADY HELPING MANY  
COUNTRIES  
COMMERCIALISE URBAN  
FARMING SYSTEMS AND  
CREATE SAFE, EFFICIENT  
AND SUSTAINABLE FOOD  
PRODUCTION.**

PROFESSOR CHUNGUI LU  
DIRECTOR OF THE NTU CENTRE FOR VERTICAL  
FARMING



# CELEBRATING STRIDES IN CANCER RESEARCH

In 2018, we celebrate ten years since the founding of the John van Geest Cancer Research Centre.

Over the last decade, the centre has become one of the most advanced multidisciplinary cancer research initiatives in the UK.

## At the forefront of the fight against cancer

Scientists at the centre have pioneered innovative approaches for diagnosing cancer better, for predicting how the disease will develop and respond to therapy, and for boosting the immune system to fight cancer, known as immunotherapy.

## Recent breakthroughs

Most recently, the centre developed a new blood test, which can confirm the presence of prostate cancer, and can eliminate the need for invasive procedures such as biopsies in up to 70% of cases.

Often those with low-grade disease, who may never have symptoms and do not require active treatment, become 'labelled' as having cancer. This can have adverse psychological and financial consequences and assign these men to unnecessary life-long surveillance.

Another recent advancement is a new test, which aims to ensure that women with aggressive forms of breast cancer receive the most effective treatment as early as possible, to avoid the use of ineffective drugs and unnecessary side-effects.

We want to develop an affordable test so that we can know from the outset whether chemotherapy is likely to be effective.

## Future plans

The centre's priority over the coming years is to become more self-sustaining and diversify its income streams to ensure that these new approaches can reach patients as quickly and effectively as possible.

The significant advances in recent years have only been possible with help from the centre's community of supporters and friends. Visit [www.ntu.ac.uk/van\\_geest](http://www.ntu.ac.uk/van_geest) to find out how you can get involved and help in the fight against cancer. **N**

**CANCER IMMUNOLOGY IS A GAME-CHANGER. THE TECHNIQUE USES OUR OWN IMMUNE CELLS AND ULTIMATELY HOLDS THE POTENTIAL TO ERADICATE CANCER.**

PROFESSOR GRAHAM POCKLEY  
DIRECTOR, THE JOHN VAN GEEST CANCER RESEARCH CENTRE





# APPRENTICE STAR BLOOMS

**Elizabeth McKenna (BA Hons International Relations and Global Politics 2005) shot to fame on the BBC's *The Apprentice* in 2017. She talks to us about balancing the demands of her thriving floristry business and media appearances, about how being on the show helped her learn who she is, and shares her thoughts on the future of Nottingham's business sector.**

"Yesterday I spent the day drinking gin," is the first thing Elizabeth says. She then explains that she was learning about gin production for an upcoming episode of *Inside Out*, which she presented for the BBC.

She's recently been presenting on BBC Radio Nottingham, too. "I'm on the other side of the looking glass now," she says. It's a learning curve she's currently relishing, when she has the time. "If you were working hard before *The Apprentice*, you're working a lot harder now."

A host of opportunities have followed since the end of the intense two-month filming period. Elizabeth could have been on *Big Brother*, but decided it would not be good for business, which comes first. "I'll still be a florist in 30 years," she says. Careful to choose her opportunities wisely, she describes her choices as "playing the long game."

Viewers might find it hard to believe that Elizabeth struggled with confidence going into auditions for *The Apprentice*, but she soon realised she was

never going to be another "well-groomed girl in a black suit" in the boardroom and cut her own path instead.

"Be yourself, let the madness come out. Own it," she says. She didn't expect to come across as funny on television, but she embraces it. As long as you remember she's also a highly intelligent, driven entrepreneur.

## I'LL STILL BE A FLORIST IN 30 YEARS

ELIZABETH McKENNA

Elizabeth has been refocusing her business, Elizabeth McKenna Flowers, over the past year. She has also launched Lizzie's Bundles, a corporate gifting service, both based in Nottingham. Now an Alumni Fellow, she comments on how her time at NTU, where she was a mature student, influenced her. She credits the Heritage Management element of her course


with giving her knowledge, transferable skills and authenticity, and the scope of her degree with lending her credibility when she was seeking the funding that set her on her way in business.

"Nottingham is a small city, with work to do, but with fantastic potential for expansion and investment", says Elizabeth on being a small business owner in Nottingham.

Elizabeth regards NTU to be one of the driving forces behind economic growth in the area – providing infrastructure, research excellence and academic expertise to make the city increasingly attractive, with even more opportunities for graduates.

And her advice for life and business? "Take every opportunity and make it matter – they only come once. Don't end up with regrets."

Elizabeth McKenna Flowers:  
[www.flowersbs.com/  
elizabeth-mckenna.htm](http://www.flowersbs.com/elizabeth-mckenna.htm)

Lizzie's Bundles:  
<https://lizziesbundles.com> 



# LIVING THE RADIO 1 DREAM

As BBC Radio 1 looks to the next generation of presenters, it's reaching out to talent from student and community radio stations. One NTU alumnus, Jack Saunders (BA Hons Broadcast Journalism 2014) is now living his dream. We caught up with him to find out more about his new show and why he feels that it all started with his NTU experience.

## Tell us about your career path since leaving NTU

After three years meeting as many people in radio as possible, I was given my chance on Kerrang! Radio in 2014 – the same summer I graduated. Whilst I was there, I started my gig night, Hopscotch: artists and bands like The Amazons, Bad Sounds, Will Joseph Cook, King Nun, Pixie Geldof, and Childcare have all played.

I spent a year learning as much as I could on Kerrang! before joining Radio X in 2015 – surrendering my social life to get up at 3 am to present the weekend breakfast show. The hard work paid off and in March 2017 I was given my first national daytime slot. I also started working for MTV, interviewing some of my favourite bands. Then, in autumn 2017, I took three exciting new bands, Yonaka, Anteros and Stereo Honey, on tour around the UK, as part of Hopscotch. I left Radio X earlier this year and started my brand new show on BBC Radio 1 in September.

## Have there been challenges along the way?

Absolutely! I was told a number of times to lower my expectations – “Not everyone can be on Radio 1”. But I’m a firm believer you can achieve anything if you work hard enough. I knew what I wanted so I went and I did it.

## What are your career highlights?

The biggest is achieving my dream and being on BBC Radio 1. To have my own show, and the freedom to get as creative as I want, is so exciting! I also love touring the UK with my gig night, Hopscotch.

## What's your favourite memory of NTU?

Helping Fly FM achieve nine nominations and win seven awards at the Student Radio Awards. We took the station from being one in a crowd of competitors to being one of the best out there. It was a big moment.



© BBC Radio 1

## I WOULDN'T BE WHERE I AM WITHOUT FLY FM

## How has your NTU experience helped you?

I wouldn't be where I am without Fly FM. There was a moment, before we moved into the Students' Union that they hadn't made space for Fly FM. As station manager, I had to explain how important it was to the University. It's where a lot of people in the radio, TV and music industries started, not just me: George Godfrey (Radio X), Ben Sheppard, Pete Allison, Tom Watts and Claire Chambers (all Capital), and Daisy Jarrett (Radio 1) all started there, and many more. NTU and Fly FM alumni are really shaping the media industry.

## What advice would you give other alumni or students about their career journey?

Do something you love. Focus on the stuff you love and make your dreams happen. Don't be afraid to be ambitious and creative – try to change the game.

## Tell us more about your Radio 1 Show

Playing the best new music. Whether that's rock, drum n bass, metal or experimental jazz! If it sounds good, and I think the audience needs to know about it, I'm going to play it! It's high energy and a lot of fun. You'll want to stay up past your bedtime. OK, you might go into work with bags under your eyes in the morning, but at least you'll have had a good time listening, right?

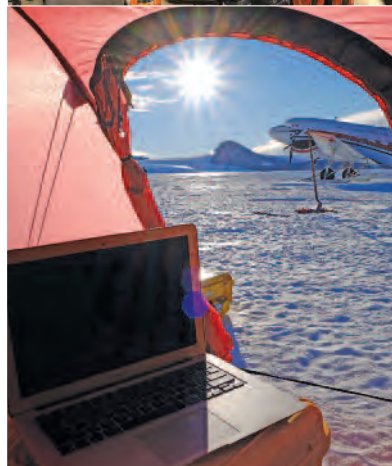
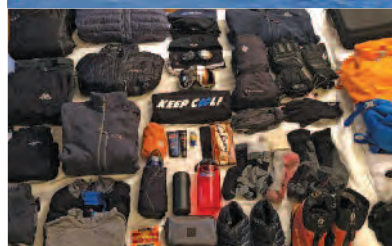
## Who inspires you?

I wouldn't be where I am without my Mum and Dad. My Grandad, who passed away whilst I was at NTU always said he wanted to live long enough to hear me on the BBC. I know he'll be looking down, so I'm glad I can make him proud. Professionally, Chris Moyles made me excited about radio and Zane Lowe ignited my passion for music.

## What's next?

I'll be focusing on the show for the rest of the year. Hopscotch Tour will be back soon and we'll definitely be coming to Nottingham, so look out for that. Then I'll be kicking on in 2019.

Catch Jack on BBC Radio 1 Mon-Thurs, 11 pm – 1 am. [📺](#)



# CAN YOU BUILD A RUNWAY ON A GLACIER?

**Extreme weather conditions, 24-hour daylight and a glacier-side campsite – alumnus Ian Stilgoe's latest project was far from a typical day in the office.**

It's not every day your job takes you to Antarctica, but when Ian Stilgoe, Geo positioning Vice President at Topcon, was asked to use the company's latest technology to investigate a potential runway on a glacier, it was an offer he couldn't refuse.

Technology giants Topcon were asked to survey Antarctic ice fields in preparation for a new glacier runway which will aid future operations of Antarctic Logistics and Expectations' (ALE) clients scientific base.

Ian and the team used Topcon's latest geospatial technology to survey the area and collect data – all from their campsite on a moving glacier.

Ian says: "There were times when I questioned if I was physically fit enough – the 24-hour daylight and non-stop action really does take its toll on you, especially in such an unforgiving environment.

"But Antarctica has always fascinated me: the extreme cold, the beautiful ice, magnificent mountains, stories of amazing exploration, but most of all – the extreme space and freedom."

Their sites included Union Glacier Camp, a moving glacier surrounded by mountains, and a rarely visited part of

the Transantarctic Mountains – where it is anticipated the runway could be placed.

"Whilst it was a challenge, we were lucky with the weather. I learnt a lot about how our technology works in such extreme climates.

"I had actually prepared for worse conditions, so the surveying equipment worked really well... even if I did have to

use some foot-warmers to heat up my laptop to extend the battery use outdoors!"

The team used Global Navigation Satellite System (GNSS) technology to survey the ice fields and surrounding mountain peaks, ensuring there was enough data to position the runway in the best location. Alongside the survey, an impressive ALE weather station

was erected and remains on the continent, gathering and transmitting live meteorological data.

Ian concludes: "The next stage of the project will involve analysing all of the data gathered in Antarctica and getting the runway certified, so ALE can prepare the ice and establish the runway."

For now, though, it's back home to South Wales and the "day job". **N**

## THE 24-HOUR DAYLIGHT AND NON-STOP ACTION REALLY DOES TAKE ITS TOLL ON YOU, ESPECIALLY IN SUCH AN UNFORGIVING ENVIRONMENT

IAN STILGOE



# MAKING US PROUD

This year we celebrated two individuals who are leading inspiring lives in two very different fields.

## Lizzie Carr

BA Hons English 2007

In May 2016 Lizzie Carr – also known as Lizzie Outside – became the first person to paddleboard the length of England's connected waterways. Alone and unsupported, she completed the 400-mile journey in 22 days.

Along the way, she took over 2,000 photos of the plastic pollution she encountered.

A year later she became the first woman to stand up paddleboard across the English Channel solo. Her record-breaking crossing took seven hours and drew attention to the bigger story of plastic pollution in our oceans. Her social media channels feature photos and videos from her adventures, keeping her followers up to date with every challenge she undertakes.

In July 2018 Lizzie launched **#PlasticPatrol**, a nationwide campaign to rid our waterways of plastic pollution. Her mission is to combat the global plastic crisis by stopping the problem at its source in the canals and rivers she knows so well. Visit [www.plasticpatrol.co.uk](http://www.plasticpatrol.co.uk) for more information.



Lizzie Carr is tackling plastic pollution one waterway at a time





Model wearing Hope and Ivy now sold worldwide

## Beth Chilton

### BA Hons Fashion and Textile Management 2008

After graduation Beth Chilton secured work at a fashion start-up. Thanks to the practical and creative skills developed on her course, she was able to help it grow into a successful business.

Bolstered by this experience, Beth identified a gap in the market for beautifully designed occasionwear at affordable prices, setting up fashion label Hope and Ivy with her business partner, Sarah Sleightholm.

Determined to expand, Beth and Sarah applied to *Dragon's Den* and pitched their idea for an e-commerce site. They left the Den with £78,000 and the backing of Deborah Meaden and Peter Jones.

Today Hope and Ivy products are sold all over the world by large fashion retailers and independent boutiques. In just three years their annual turnover surpassed £2 million.

[www.hopeandivy.co.uk](http://www.hopeandivy.co.uk)

# HONORARY GRADUATES

Honorary degrees for alumni including a former RAF air marshal and a Crown Court judge.

In his distinguished military career, **Air Marshal Sir Baz North** (HND Business Studies 1981) flew operational tours all over the world and went on to command all UK air operations during the conflicts in Iraq and Afghanistan. He later served on the Air Force Board, achieving the rank of air marshal in 2013. Sir Baz is also a member of the Nottingham Business School Advisory Board and was the 2011 Alumnus of the Year.

**Judge Avik Mukherjee** (LLB Hons Law 1989) spent 25 years prosecuting and defending many complex cases before becoming a recorder to the circuit bench in 2009 and a circuit judge based at Birmingham Crown Court in 2015. Avik began mentoring students at NTU in 2014 and in 2016 was made an honorary professor.

**Sir Roger Carr** (DMS Management Studies 1969) is Chairman of BAE Systems and a senior adviser to the world's largest private equity company. He's previously held chairmanships at Centrica, Cadbury, Chubb, Thames Water and Mitchells & Butlers.

Other dignitaries from the world of sport, business and entertainment to receive honorary degrees this year were:

- **David Collier**, best known for sitting on the world governing bodies of cricket, hockey and rugby league
- **Elizabeth Fagan**, Boots' first female managing director

- **Professor Neil Gorman**, former NTU Vice-Chancellor
- **Anne Morrison**, Chair of BAFTA's International Committee
- **Corey Neilson**, Nottingham Panthers ice hockey coach
- **Chris Read**, former Notts and England cricketer
- **Tim Reddish**, Chairman of the British Paralympic Association and former Paralympic swimmer.

## In case you missed it...

Last year's honorary degree recipients:

- Jonathan Glazer (BA Hons 3D Design (Theatre) 1987), BAFTA-nominated filmmaker
- Simon Starling (BA Hons Photography 1990), Turner Prize-winning artist
- Jüergen Maier (BSc Hons Production Engineering 1986), Chief Executive of Siemens plc
- Rose Thompson, Director of BME Cancer Communities
- Richard Davison, four-time Olympic equestrian and European medallist
- Oliver Hynd, British Paralympic swimmer
- Lady Frances Sorrell, British designer, advocate and campaigner for creative education.

# ALUMNI GIVING BACK

**NTU's innovative Alumni Fellowship Programme is now live across the whole university. What began with a successful pilot in Nottingham Business School now includes over 850 Alumni Fellows, both in the UK and internationally, representing and celebrating the diversity of courses and career paths of NTU graduates.**

**A**s Alumni Fellows, successful alumni are invited to support and inspire current students by volunteering their time in a range of activities including, but not limited to, guest lectures, employability workshops, offering placements, mock interviews, blog posts, one-to-one mentoring, networking events and Skyping into tutorial sessions.

In return, Alumni Fellows are an integral part of the NTU community and can enjoy alumni benefits such as library access and exclusive event invitations. We are now recruiting Alumni Fellows and planning their programmes of activity for the year ahead. It is an exciting time for the Alumni Fellowship Programme, which benefitted 3,000 students in the 2017/18 academic year and looks set to far exceed that in the coming year.

Already well established in Nottingham Business School, Nottingham Law School, the School of Arts and Humanities and the School of Animal, Rural and Environmental Sciences, the programme is producing brilliant examples of students engaging with, and being inspired by, the dedicated Alumni Fellows.

Alumni Fellows pictured at a recent event





## Guest lectures

**Alumni Fellow:** Jamie Dolling (BSc Hons Zoo Biology 2015) "I really enjoyed giving a lecture and I hope the students enjoyed it too! My aim was to give students an idea of what it's like to work in different areas related to their studies."

**Student:** Idaira Martinez Negrin (FdSc Animal Science) "Having guest lecturers come to class helped me realise the different experiences, career paths and options that I was not sure were even possible with my degree."

## "Meet the alumni" workshop

**Alumni Fellow:** Emily Boaler (BA Hons Modern Languages 2013) "I feel like I am in my element when I come back to NTU. I can see my lecturers, meet new people and I am surrounded by people who are in the same boat I was."

**Organiser:** Dr Jo McCormack (Principal Lecturer, Modern Languages) "Our alumni have some fantastic experiences to share, and our current students benefit from seeing what our graduates are doing now and how their jobs and careers are developing. Alumni can give a different perspective to academic staff."

## One-to-one mentoring

**Alumni Fellow:** Brian Fairchild (PG Cert Management for Personnel and Development 2002; PG Diploma Personnel Management 2004) "I became a mentor as I know how difficult it is for new graduates to make the leap from university to work."

**Student:** Edward Collington (BA Hons Business Management and Human Resources) "I worked very closely with my mentors, one of whom worked for the company I have now secured a graduate job with. I wouldn't have even known about it if it wasn't for the mentoring programme!"

## Students go behind the scenes at Nottingham Magistrates' Court

**Alumni Fellow:** Simon Massarella JP (Electrical and Electronic Engineering, 1985, now Magistrate Bench Chair, Nottinghamshire) "In my role as an Alumni Fellow I have successfully provided three exclusive behind the scenes experiences for students at Nottingham Magistrates Court. This enabled the students to see the inner workings of the courts." 

# GET INVOLVED

The Alumni Fellowship Programme saw its launch in the Schools of Art and Design, Social Sciences, Science and Technology, and Architecture, Design and the Built Environment in 2017/18. Our newest Alumni Fellows are now looking forward to their first year of activities which started with a welcome event in September.

We'd like to say a big thank you to all our Alumni Fellows. We really do appreciate your support. Like Nadia Malik, course leader for BA Costume Design and Making, says: "Through alumni support, student ambition and direction can be expanded and shaped in order to meet the demands of industry, and this bridging exchange is extremely valuable for all who engage with it."

Visit: [www.ntualumni.org.uk/alumni\\_fellows](http://www.ntualumni.org.uk/alumni_fellows) to find out more, and get involved.







# ENGINEERING THE FUTURE

Last year saw the re-launch of our Department of Engineering, with new courses, new facilities and a bold, innovative approach to creating the engineers of the future.

**W**ith the UK economy facing an acute shortage of skilled engineers,

NTU has re-launched its engineering programme with a full suite of new undergraduate and postgraduate courses in electronic engineering, sport engineering, biomedical engineering and mechanical engineering.

## A differentiated offering

While our courses focus on developing students' fundamental skills, they go beyond traditional engineering programmes. Professor Neil Mansfield, Head of the Department of Engineering, explains: "There are some excellent engineering departments out there, but what we think is missing is opportunities for students looking to define the future and invent new engineering methods and technologies. Our courses, therefore, have a strong emphasis on creativity, invention, innovation, and project delivery, as well as the core engineering fundamentals.

"Our students won't just carry out a stress analysis on a bridge beam, for example. They'll use CAD [computer-aided design] to design a better one, and use the latest fabrication tools to make it, then test it, and see it right through to the end.

"Similarly, our students take part in a 'Grand Challenge', working in teams to solve a major problem. For instance, one of the challenges was to develop technologies for search and rescue applications set in the year 2038, which required them to set up virtual start-up companies, appoint non-executive directors, employ consultants, hold gateway reviews and present their inventions at a final trade show."

## THERE IS AN ESTIMATED ANNUAL SHORTFALL OF UP TO 59,000 ENGINEERING GRADUATES AND TECHNICIANS TO FILL CORE ENGINEERING ROLES

ENGINEERING UK – THE STATE OF ENGINEERING, KEY FACTS 2018

## Ready for anything

"It's all about understanding how industry works so that when students finish their degrees they are able to go into a career and be capable of handling any challenges they're given," adds Neil, who joined NTU in 2017

from Imperial College London, where he was instrumental in setting up the School of Design Engineering.

The new department has already developed strong links with companies, including Siemens, Fujitsu, Bridgestone, Huub, ANSYS and Autodesk. A considerable research portfolio is already taking shape, ranging from multi-physics modelling and technically advanced sports clothing, through to next-generation car interiors.

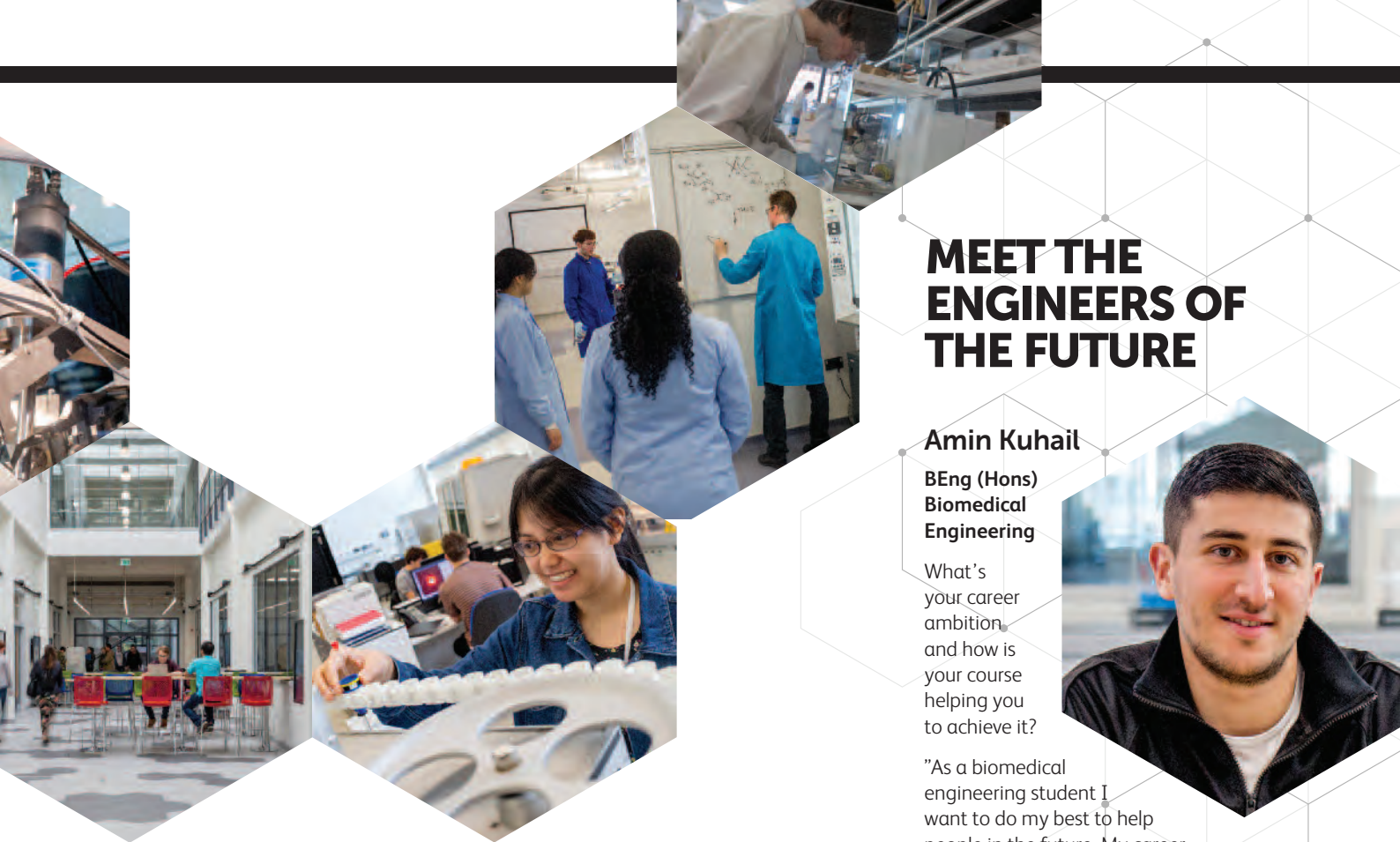
## Big plans for the future

The department is currently housed in the Interdisciplinary Science and Technology Centre (ISTeC) at Clifton Campus (see opposite), and a purpose-built, 4,000m<sup>2</sup> engineering teaching and research building is also under construction.

The aim of Professor Mansfield and his team is to double the number of academics this coming year and grow the student body to around 800 students within the next six years, extending the offering to include postgraduate provision and degree apprenticeships.

Visit [www.ntu.ac.uk/engineering](http://www.ntu.ac.uk/engineering) to find out more about engineering at NTU. **N**





## MEET THE ENGINEERS OF THE FUTURE

### Amin Kuhail

**BEng (Hons)  
Biomedical  
Engineering**

What's your career ambition, and how is your course helping you to achieve it?



"As a biomedical engineering student I want to do my best to help people in the future. My career ambition is to work in biomechanics which applies classical mechanics (such as statics, dynamics, fluids, solids, thermodynamics, and continuum mechanics) to biological or medical problems. Being at Nottingham Trent University has helped me a lot so far with this field. I had the time to study with great professors and do some research, assignments and practical work. It has been very useful to me and my career ambition and all the students at NTU".

### Rodney Munashe Moses

**BEng (Hons) Biomedical Engineering**

What's great about being an engineering student at NTU?

"There's absolutely no doubt about the time the lecturers have for us outside of lecture hours, which makes it easier for us to grasp the concepts with a better depth. Most importantly, the new technological equipment and labs have given me that cutting-edge

motivation to work harder because I feel that I am part of the first pioneers of engineering students at NTU."



## NEW CENTRE FOSTERS COLLABORATION

**The £11 million Interdisciplinary Science and Technology Centre (ISTeC) brings together science, technology, engineering and mathematics (STEM) students and researchers to improve collaboration and employability.**

**B**ased at Clifton, the new centre offers world-class facilities, such as high-performance computers, robotics labs and testing suites for sports science and nutrition.

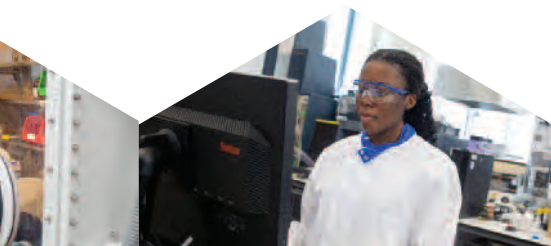
Just as importantly, the space is designed to nurture interdisciplinary work among students and researchers.

"The new building is a demonstration of our focus on practice-based learning and improving student skills for employability," says Professor Mary O'Neill, Dean of the School of Science and Technology. "The aim is to get students working together on projects,

like you would in industry, to get them ready for the world of work.

"These facilities enable us to teach in a new way, and for researchers to work together to tackle key issues such as big data and the relationship between humans and robots."

Earlier this year, ISTE C won Project of the Year at the East Midlands Celebrating Construction Awards, and it's part of the ongoing transformation of the Clifton Campus. **N**





# NEW KID ON THE BLOCK

Welcome to Metronome, Nottingham's latest venue...

**N**ottingham is renowned for its thriving creative scene and with a brand new live venue that opened its doors this autumn, it's just got even better.

Located on NTU's Creative Quarter Campus, Metronome is a place to discover the latest music acts from across the globe, alongside a varied cultural programme of spoken word, film screenings and lectures.

We chatted to Metronome promoter, Kristi Maria, to find out more.

## What can we expect?

"Metronome is a new 350-capacity venue for music, moving image, video games, live performance and spoken word based in Confetti Institute of Creative Technologies' new Marco Island building. We're sure you'll love it!

"Not only will Metronome bring interesting acts from around the world to the city, it will also provide lots of opportunities for local emerging talent to support touring bands."

## How is Metronome different to other venues in the city?

"In addition to the venue itself, we also have an amazing complex of recording studios, live rooms and rehearsal spaces. Producers from Radio 1 have already been here to record and use our facilities."

## Tell us about some of the shows you've got coming up.

"There's loads to look forward to! Amongst other things, there's a critically acclaimed collaboration between Welsh harpist Catrin Finch and Senegalese kora player Seckou Keita, Japanese psychedelic rock band Acid Mothers Temple, and award-winning stand-up poet Luke Wright.

**KRISTI MARIA RECOMMENDS:  
ON 13 DECEMBER WE HAVE  
IGLOOHOST AT METRONOME  
FOR A SPECIAL Q&A. HE WAS  
SIGNED TO BRAINFEEDEER AT 18  
YEARS OLD AND HAS BEEN CITED  
AS THE NEXT APHEX TWIN.**

"For 2019 we've also got a really special film screening and performance from pioneer of the hang (handpan) Manu Delago, who plays in Björk's live lineup."

## Why go to a gig at Metronome?

"It's a great space for you to discover lots of brilliant music – an act you aren't familiar with could become your favourite new band."

Head to [www.metronome.uk.com](http://www.metronome.uk.com) for a full listing of Metronome's upcoming events. 



/MetronomeNotts





All photography © Sam Kirby







Elizabeth Hammond (BSc Hons Horticulture 2018) and FdSc Horticulture Course Leader Mark Oxenbury, with *Countryfile* presenter Matt Baker

# APPLE OF OUR EYE

The School of Animal, Rural and Environmental Sciences at Brackenhurst has become the new guardian of the original Bramley apple tree – the first of its kind to grow the UK's most popular cooking apple.

## DID YOU KNOW?

**AROUND 83,000 TONNES OF BRAMLEY APPLES ARE GROWN IN THE UK EVERY YEAR.**

**N**TU featured prominently in an episode of BBC *Countryfile* in August, covering the University's important work to safeguard the heritage of the original Bramley apple tree.

Mary Ann Brailsford planted the pip for the Bramley tree between 1809 and 1815. More than 40 years later, new occupier Matthew Bramley allowed local gardener Henry Merryweather to take cuttings from the tree to grow in

his family's nursery – provided they had the name 'Bramley's Seedling'.

The first recorded sale of a Bramley was on October 31, 1862, when Mr Merryweather sold three Bramley apples for two shillings.

In 1900 the tree blew down in a storm but managed to survive. Today there are more than 300 Bramley growers in England, with about 83,000 tonnes of the apples grown annually in the UK alone. The apples are very large and typically used in desserts.



Roger Merryweather, Henry's great-grandson, also appeared on *Countryfile*, discussing the history and heritage of the Bramley apple with Matt Baker in NTU's Victorian walled garden. The BBC also filmed at the Starkey's orchard in Southwell.

Professor Robert Mortimer, Dean of the School of Animal, Rural and Environmental Sciences, said: "It is fantastic that our work to share and celebrate the heritage of the Bramley apple tree was featured on *Countryfile*, and I'd like to thank all colleagues who helped to make this happen. It was a pleasure to be able to have the BBC and presenter Matt Baker visit the Brackenhurst Campus and film in our Victorian walled garden, which looked great.

"Our research to sequence the Bramley genome gives us an exciting opportunity to unlock its secrets, potentially shedding light on its longevity, disease resistance and unique taste."

## WE WILL PRESERVE THIS ICONIC TREE FOR AS LONG AS POSSIBLE

PROFESSOR ROBERT MORTIMER,  
DEAN OF THE SCHOOL OF ANIMAL,  
RURAL AND ENVIRONMENTAL SCIENCES

Sadly, the tree is suffering from an incurable honey fungus infection, and NTU will be planting grafts around Brackenhurst Campus, aiming to preserve its legacy for future generations.

"We will preserve this iconic tree for as long as possible," said Professor Mortimer.

There are plans to open up the rose garden to members of the public, as well as develop a formal programme to celebrate the history and heritage of the Bramley, including the Bramley Festival held annually in October. **N**

## AN EXCLUSIVE RECIPE FOR NETWORK READERS



Inspired by the Bramley apple, we asked Alex Bond – a local chef and restaurateur who has worked with Sat Bains, Phil Thompson at Auberge du Lac and Richard Turner at Turners in Birmingham – to create a special recipe.

Alex opened his first solo venture Alchemilla in Nottingham in August 2017, to rave reviews, and has just been named by *The Waitrose Good Food Guide* as their "Chef to Watch" for 2019.

As a keen gardener, Alex is a firm believer that 99 % of his ingredients should be British sourced – an ethos NTU can get behind.

### Alex's Bramley and anise hyssop baked custard, woodruff Chantilly and anise hyssop granita

#### INGREDIENTS

##### Apple puree

2 large Bramley apples  
30g butter  
100g sugar

##### Baked custard

150g apple puree  
150ml whole milk  
150ml double cream  
3 egg yolks  
1 whole egg  
60g sugar  
14g anise hyssop

150ml double cream  
20g dried woodruff  
35g icing sugar

##### Anise hyssop granita

25g anise hyssop  
1g citric acid  
500ml 25 % sugar syrup

#### METHOD

Start by making the granita, blend all of the ingredients in a high-powered blender for 30 seconds, then pass through a fine sieve over ice. Freeze in a shallow flat container stirring with a whisk every 20 minutes until you have a fine frozen powder. Reserve for later.

Next, gently warm the cream for the Chantilly with the dried woodruff; do not boil. Set to one side to cool. Once cold, pass the woodruff cream through a fine sieve and chill. Once the cream is cold, whisk with the icing sugar to peak stage, adjust the sweetness according to taste.

Finally, peel the apples, drizzle with a little honey and bake at 200°C until they collapse and start to go brown on the top. Blend the whole apple with the butter and the sugar until smooth, pass and chill.

Place the anise hyssop, milk and cream into a pan and heat to 85°C. Leave to infuse for 30 minutes. Whisk the whole egg, the yolks and the sugar together until thick, reheat the cream back to 85°C and pour through a sieve over the yolk mixture. Whisk together then split the mix between six small bowls and bake in a bain-marie at 105°C until just set.

Cool at room temperature and serve with a big dollop of Chantilly cream and some of the frozen granita.

Enjoy!

Find out more:  
[www.alchemilla-restaurant.uk](http://www.alchemilla-restaurant.uk)

# THE SUMMER DESIGN SHOW

**The final year work of just over 1,300 graduating artists and designers opened to the public for ten days this June.**

**T**he annual show is one of the largest exhibitions of graduate art and design work in the country, reflecting the University's rich heritage which dates back to 1843 with the opening of the Nottingham Government School of Design.


The opening event featured art installation, performance and sculpture, illustration and painting; graphics, animation and motion graphics; photography and print; fashion, knitwear and textiles; theatre, television and costume design; product innovation and prototypes; and furniture, interiors and architectural design.

A significant number of professional awards and industry-sponsored prizes were given to students across many of the featured subject areas during the show's opening event. Selected students from several subject areas also represented their courses at prestigious London summer graduate exhibitions New Designers, Free Range and D&AD New Blood.

Two days of catwalk shows also took place in May, featuring over 100 new collections from emerging fashion, knitwear and accessory designers.

A selected 21 students then went on to showcase their work at Graduate Fashion Week London, the world's largest graduate fashion event. NTU graduates Jacaranda Brain, Georgia Lyne and Essi Peuhkuri celebrated with top awards for Visionary Knitwear, Tessuti Sports and Leisurewear, and YKK London Accessories respectively.

Barbara Matthews, Pro Vice-Chancellor (Culture) and Head of College of Art, Architecture, Design and Humanities, said: "Art and design has the power to change the world we live in, and the creative skills on which Nottingham Trent University was founded in the mid-19th Century are as important to society today as they were then."

Visit [www.ntu.ac.uk/degreeshow](http://www.ntu.ac.uk/degreeshow) to see more of what happened at the show. 



1. Work by Sophie Webb, ND Talking Tables Associate Prize
2. Robyn Marie Pennant, Fashion Design
3. Charlotte Platten, Knitwear Design collection
4. Furniture design by Dun He Tan
5. Emily Clark, Fashion Knitwear Design
6. Christos Demetrious, Fine Art performance opening event





## FASHION STUDENT LAUREN MILBURN CHANGING LIVES

A fashion student whose grandmother survived breast cancer has designed a swimwear range for women who have undergone mastectomies.

Lauren Milburn created a collection that caters for the needs of women who have had one or two breasts removed.

Named 'Nisey', after her grandmother Denise Pounder, who underwent a single mastectomy, it features pockets for prosthetic breast inserts and is designed to conceal scar tissue.

"A mastectomy is a lot for a person to go through and women want to buy clothes which make them feel normal again," said Lauren, of Long Eaton in Derbyshire, who recently graduated from the School of Art and Design.



# FLOOD WARNING

Recent graduate Greg Rolleston (BSc Hons Product Design 2018) has created a system, as part of his final year project, which could help save lives by alerting drivers to dangerously high levels of water on the road.

**F**lood water can cause cars to aquaplane or damage the engine and brakes. Greg's 'GYZR' Flood Awareness System uses a sensing bollard placed in flood prone areas which records the level of water collecting on the surface and sends a message to a nearby LED sign. The sign displays three warning levels depending on the severity of the flood: beware of flood; beware of flowing flood; road impassable.

The bollard, which is concreted in beside the road, contains a hydrostatic level sensor to record the water level. The sign and bollard interact via radio telemetry.

Greg said: "Approaching a large amount of water on the road can be daunting. This system provides data which can help drivers make sensible decisions that could help reduce accidents and potentially save lives. The data can also be sent to companies who will find it useful, such as the Environmental Agency.

Greg came up with the idea while on his placement year at Stormsaver – a company that specialises in collecting, storing and reusing rainwater by installing large tanks in businesses and homes.

**THIS SYSTEM PROVIDES DATA WHICH CAN HELP DRIVERS MAKE SENSIBLE DECISIONS THAT COULD HELP REDUCE ACCIDENTS AND POTENTIALLY SAVE LIVES.**

GREG ROLLESTON

Greg, who also received the Best Project Award from the Institution of Engineering Designers (IED) at graduation, said: "My placement experience was so inspiring. I got stuck into so many different projects, I was able to apply what I'd learned when I returned to uni, and it put me ahead of the others in terms of employability."

So much so that Greg has now secured a job at Stormsaver.

Stormsaver's Managing Director and Alumni Fellow, Michael Farnsworth (BA Hons Furniture and Product Design 1998 and PG Dip Enterprise 1999), has been providing placements for NTU students for the past five years.

Michael said: "I've been there! I also did a placement as part of my course. In fact, Stormsaver was born from my own final year project.

"As a small company, employing a placement student gives us the opportunity to put more resource into research and development. I try to give students as much realistic experience as possible by setting them challenges and deadlines. It's win-win – they are learning and we are developing." **N**

Interested in employing a placement student? Contact [alumni@ntu.ac.uk](mailto:alumni@ntu.ac.uk) to find out more.





# POWER TO THE PEOPLE

From guiding families through contentious inquest cases in court, to delivering speeches to the Council of Europe – meet the 24-year-old barrister who's fighting for the rights of the common man.

**A** fresh-faced graduate may seem like an odd fit to sit among delegates in Strasbourg's iconic Palace of Europe, but one Nottingham Law School (NLS) alumnus has spent the past year doing just that.

Christian Weaver sat as the 2017 UK Youth Delegate to the Congress of the Council of Europe – the human rights organisation responsible for the European Convention on Human Rights – where he spoke about the views of young people in the UK.

"It was a real honour," Christian says. "We had real power to influence change and speak on issues that affect us."

Christian completed his undergraduate (LLB) and postgraduate (BPTC) law degrees at NLS and currently works for Inquest, a charity that examines state-

related deaths. He will embark on his barrister's pupillage at Garden North Chambers next year.

"Human rights issues drive my passion for law and politics. I dislike the idea that somebody's civil and human rights can be violated, but they feel unable to challenge this due to a lack of resources and knowledge. My goal is to help redress this imbalance."

Christian is now using his legal experience and passion for social justice to help NTU students and alumni achieve success as an Alumni Fellow.

"My biggest piece of advice would be to take advantage of everything the University has to offer you – NLS provide numerous opportunities for students to improve their employability skills and gain practical experience in the industry." **N**



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**NTU EMPOWERED ME TO MAKE ARGUMENTS TO SENIOR DECISION-MAKERS. I HOPE I CAN HELP CURRENT STUDENTS AND ALUMNI DO THE SAME.**

CHRISTIAN WEAVER

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## NOTTINGHAM LAW SCHOOL LEGAL ADVICE CENTRE RECOVERS £1.7 MILLION IN COMPENSATION FOR CLIENTS

Not all those seeking legal advice can afford it. As the UK's only fully-regulated teaching law firm, our multi-award-winning Legal Advice Centre offers free or low cost high-quality legal advice to the public and our NTU alumni community.

The centre creates outstanding opportunities for students to work with its solicitors to gain practical legal skills whilst delivering a vital service to individuals, charities and small businesses. Over the past four years it has recovered over £1.7 million in compensation/benefits for clients.

Visit [www.ntu.ac.uk/legal\\_advice\\_centre](http://www.ntu.ac.uk/legal_advice_centre) to find out more.

# BUCS LEAGUE SUCCESS

## NTU RISES TO 13TH AFTER CHAMPIONSHIP WINS

It has been an excellent year for sport at NTU, with successes in equestrian and men's lacrosse contributing to a 13th-place finish in the British Universities & Colleges Sport (BUCS) league.

**A**fter dominating lacrosse and going unbeaten for more than a decade, Durham University was finally dethroned as national champion by our men's team this year.

"We've put a lot of focus on the sport over the past few years, hiring a head of lacrosse – Sam Patterson – who plays for England and has helped us attract many good junior players, as well as a few key players on scholarship from the US," says Director of Sport James Hayter.

We also became national champions in equestrian this year, with our team at Brackenhurst providing a lot of support and additional coaching sessions. We received more good news for team member Lizzie Baugh, who was overall BUCS equestrian champion and has since been added to the longlist to represent Great Britain.

### Heading in the right direction

In **fencing**, scholar Danielle Lawson picked up our first ever BUCS medal in the épée and was the highest placed British women's épéeist at both the Junior European and World Championships.

This year saw us collect two gold medals in **boxing** and two more in the **canoe slalom** championships, while our **men's hockey** team was pipped to the league title by Durham, losing to the same team in the cup final on penalty flicks.

In addition, the **women's hockey** team secured promotion to the premier league, and scholar Caro Hulme represented Wales at the Commonwealth Games. There was more individual success in **archery**, with Sarah Moon called up to the British junior team.

"It's been a very successful year and we're definitely heading in the right direction," says James. "Over the past few years we've gone from 21st to 19th, 15th and now 13th in the BUCS league – which isn't bad out of 150 UK universities. Our aim now is to crack the top 10."

### IT'S BEEN A VERY SUCCESSFUL YEAR AND WE'RE DEFINITELY HEADING IN THE RIGHT DIRECTION.

JAMES HAYTER, DIRECTOR OF SPORT

### Play for fun

But it's not all about high-level competitive sport. Sport forms a central component of the student experience at NTU, and engagement in sport has a profoundly positive impact on our students, helping to shape their character and enabling them to develop important life skills.

In 2018, we saw huge numbers take part in our Play for Fun programme.

"We've had over a thousand people a week take part in our intramural leagues in football, badminton, rugby and netball, and have seen a big step up in participation in our beginners' sessions," says James.

"It's great to see so many people taking part. It's been proven time and again that sport makes a huge difference not only to students' health and wellbeing, but also to their academic success and ability to adapt and enjoy university life."

### Tokyo 2020

We caught up with alumnus and former scholar Joe Seaman (BSc Hons Sport Science Management 2011), who told us about his goal of representing the United States in Tokyo in two years' time.

The British rower moved from the UK to his wife's hometown of Austin, Texas, and still manages to train six to 10 times a week, before and after work, and sometimes during his lunch break.

With a demanding job, a baby on the way and a new house to get ready, Joe still finds the time for the intensive training needed to compete at the very top of his sport.

Thanks to Austin's warm winters, it is possible to row on the waters of Town Lake all year round, although Joe's regime also involves rowing machines, the gym and swimming. During the racing season between April and August, training switches to fewer, higher intensity sessions.

It is all part of Joe's long-standing ambition to row in the Olympics, and we wish him every success in realising his Olympic dream. **■**







## LACROSSE

The men's first team won the BUCS championship for the first time, beating Durham in the final.

## EQUESTRIAN

NTU's A team was BUCS champions for the first time in more than ten years

## WOMEN'S BASKETBALL

NTU's first team was promoted to BUCS Premier League for the first time at the end of the season

## WATER POLO

NTU entered a women's water polo team in BUCS for the first time in 2017/18 – they won their final match of the season (11-7 against Oxford Brookes).

## WOMEN'S CRICKET

NTU also entered a women's cricket team in BUCS for the first time.

## MEN'S RUGBY UNION

In its first season in "BUCS Super Rugby" (a national league for the top ten universities), NTU men's first team finished strongly, beating Durham twice in consecutive weeks in league and cup.

## HOCKEY

The hockey programme as a whole went past 200 points for the first time.

## MEN'S FOOTBALL

Won Premier North the year after promotion.

## MEN'S SQUASH

First team made the Premier League.

**FOR THE FIRST TIME IN NTU SPORTING HISTORY THE UNIVERSITY ALSO ACHIEVED MORE THAN 2,000 BUCS POINTS**





Recipients of the doctoral scholarships awarded in Pauline's name

# CELEBRATING PAULINE'S LIFE AND RESEARCH

**A research conference exploring the theme of Women's Lives and Voices was held in memory of Dr Pauline Polkey, who lectured in English at NTU and died in 1999. The conference also saw the launch of several scholarships to support arts and humanities students and researchers.**

**T**he one-day event held in September brought together established and early-career researchers in the field of women's life-writing, and explored questions of voice, agency, class and ethnicity.

The keynote speech and inaugural Dr Pauline Polkey Annual Lecture was given by Professor Alison Donnell of the University of East Anglia. Alison was Pauline's colleague and friend and the pair co-edited a book, *Representing Lives: Women and Auto/Biography*.

"This conference has allowed us to reconsider the themes of Pauline's work and look at the context of that work almost 20 years after her death," says Angela Brown, Dean of the School of Arts and Humanities.

## New archive centre

The event was also an opportunity to announce the first arts and humanities scholarships in Pauline's name, including six Masters and a doctoral scholarship. The latter was awarded to Naomi Drury to support her PhD entitled *Towards the new media Europe: A Europe without any belonging*.

The conference was made possible thanks to a generous donation by Pauline's family that will also see the establishment of a new archive centre at NTU.

"The generous gift in Pauline's name will allow us not only to enhance our research and student learning, but also to contribute to our new archive centre,"

says Angela. "The centre will also include Pauline's own archives, create a space for teaching and research, and enable external researchers and members of the public to access the University's archives and collections.

"We are deeply grateful to Pauline's family for their transformative contribution." **N**



Vice-Chancellor Professor Edward Peck with Pauline's father, Dr John Ellis





Linda Leaver (pictured second right) meets fashion design students

# GLOW THROUGH

**Fashion students design clothes for wheelchair users in project set by alumna Linda Leaver (BA Hons Social Sciences 1984).**

**F**or the third year running, Linda Leaver has awarded £11,000 to students she challenged to design fashionable clothes for wheelchair users and people with physical disabilities.

Linda, a successful East Midlands-based entrepreneur, was inspired to set the project after spotting a gap in the market when she had to use a wheelchair for a time following a skiing accident.

Over the past three years, Year Two students on the BA (Hons) Fashion Design course have been set the challenge of creating contemporary yet functional designs for adaptive clothing, with students having to design a range of six outfits for their own age group.

Students carried out market research, including gaining insights from wheelchair users, then developed detailed concepts. Each year the top three designs have been awarded prizes of £5,000, £3,500 and £2,500.

This year's winner was Olivia Davis, who plans to take her concept 'Glow Through' on to her final-year collection.

"I've thoroughly enjoyed this process," says Linda. "Over the last three years it's been a fantastic experience to see the development of new ideas and research. I feel that this year has been the most technically accomplished – the students have really taken the concept on board and made great use of social media for research too.

"The originality of approaches and concepts is very impressive – we're definitely ending the project series on a high."

Senior Fashion Design Lecturer Dawn Eyre adds: "This is the final year of the Linda Leaver project and our second year students have thoroughly enjoyed designing adaptable clothing. We'd like to thank Linda for the ongoing support and sponsorship which has helped our students fund their final collections and work placements." **N**



Olivia Davis' 'Glow Through' collection

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You can find out more about our upcoming distinguished lectures and book tickets, as well as watch previous lectures, at **[www.ntu.ac.uk/distinguishedlectures](http://www.ntu.ac.uk/distinguishedlectures)**



# BENEFITS OF BEING NTU ALUMNI

It's an exciting time to be part of the Nottingham Trent University community, and we wanted to remind you of some of the benefits and services available to you as alumni. All you need to do is keep in touch with us!

## Future You

You can receive practical advice, ideas and starting points for taking the next steps in your career journey for up to three years after graduation through our Employability Team.

You can also access hundreds of job vacancies and get tips on becoming self-employed.

[www.ntu.ac.uk/employability/graduates](http://www.ntu.ac.uk/employability/graduates)

## The Hive

The Hive is NTU's purpose-built Centre for Entrepreneurship and Enterprise.

The Hive can help turn business ideas into a reality, so if you have a business idea, or are thinking of taking the steps into freelance work, visit

[www.ntu.ac.uk/hive](http://www.ntu.ac.uk/hive) for more information.

## Legal Advice Centre

The Legal Advice Centre can provide high quality legal advice and information to alumni, the local community and individuals in need. In its 12-year history the centre has recovered more than £1.7 million for its clients. See page 31 for more info.

## Library

Whether you are researching a specific topic, swotting for an exam, or

preparing for your next job interview, as NTU alumni you can access any of our campus libraries free of charge.

## Get active

Alumni can enjoy generous discount on NTU Active Membership which includes unlimited use of all our gyms and sports facilities, unlimited access to NTU fitness classes and blast sessions with priority booking, a free gym induction, and more.

[www.ntu.ac.uk/sport/membership](http://www.ntu.ac.uk/sport/membership)

## Further study

Postgraduate study can be the key to progressing your career or moving into a new field. It can maximise your earning potential and open up new opportunities.

It can also allow you to explore the subject you love in depth and reward you with a prestigious qualification.

And the great news is that as an NTU alumni, you may be entitled to a 25 % discount on postgraduate study with us.

## 100% Online Courses

Did you know you can now study online with NTU with a 25 % discount?

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## Remember to also follow us on social media



@NTUalumni

## KNOWLEDGE EVOLVES. SO SHOULD YOUR CAREER.

Desmond Onyejekwe completed his BA International Relations at NTU, and took advantage of the alumni discount to return and complete a MSc Management and Innovation and Enterprise at Nottingham Business School (NBS).

He said: "I always dreamt of being an entrepreneur and having my own consultancy firm with the vision and objective of making a positive impact on Nigerian businesses. The MSc Management and Innovation and Enterprise helped me achieve greater insights to the factors required to make my plan a reality."



### We're holding postgraduate open events on:

**Wednesday 30 January 2019**  
(all campuses)

**Wednesday 13 March 2019**  
(all campuses)

**Tuesday 11 June 2019**  
(City Campus – professional course focus)

Please visit [www.ntu.ac.uk/study-and-courses/postgraduate](http://www.ntu.ac.uk/study-and-courses/postgraduate) for more information about postgraduate study at NTU, and to book your place at one of these events.

## CONTACT US

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