



UNIVERSITY OF
LIVERPOOL

ALUMNI

**MARIA
BALSHAW:
TATE'S FIRST
FEMALE
DIRECTOR**



INSIDE YOUR 2019 EDITION:

› A new concert hall for Liverpool › The engineers of the future › A bastion of digital tech

ALUMNI



In this issue we catch up with graduate Maria Balshaw about her journey from Liverpool to the Tate; celebrate the 50th anniversary of the first crossing of the surface of the Arctic Ocean in which alumnus Dr Ken Hedges participated; and learn more about the new Digital Innovation Facility coming to Liverpool.

Thank you for all your feedback on last year's magazine. Please do let us know what you think of this year's edition. As always, we can never fit everything in so please visit our website to keep up to date with all the news from your University.

Finally, we will be celebrating the achievements of our alumni with the launch of the Liverpool Alumni Awards. Find out more on page 15. We're looking forward to hearing about your achievements!

With best wishes,

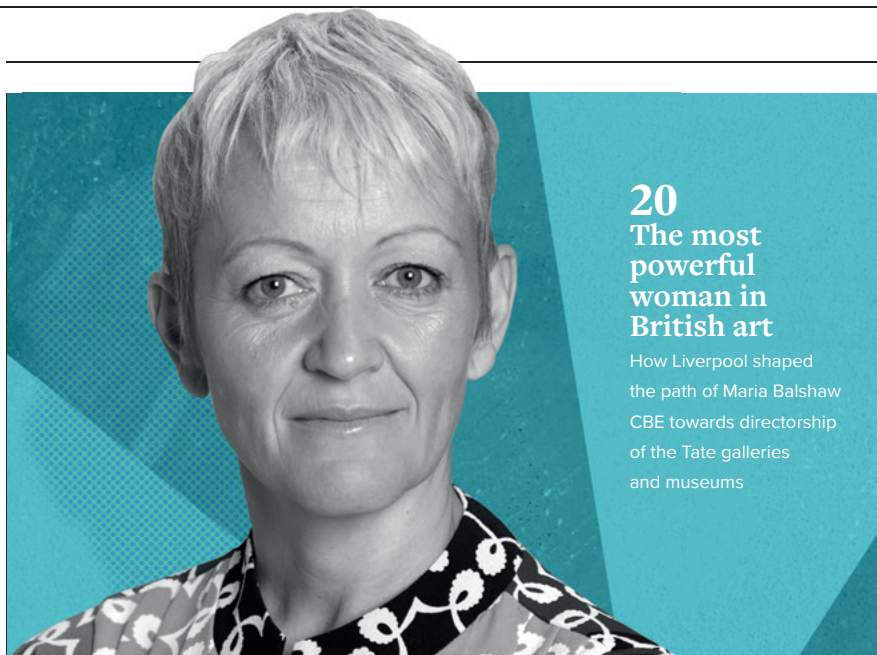
Anita Irving
Deputy Director, Alumni Engagement and Regular Giving

P.S. Thank you to everyone who updated their contact preferences. Should you wish to update your information, please visit: www.liverpool.ac.uk/alumni.

LIVERPOOL CONNECT

Connect with your alumni community for advice and support. More than 2,500 Liverpool graduates are already participating.

www.liverpool.aluminate.net



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How Liverpool shaped the path of Maria Balshaw CBE towards directorship of the Tate galleries and museums

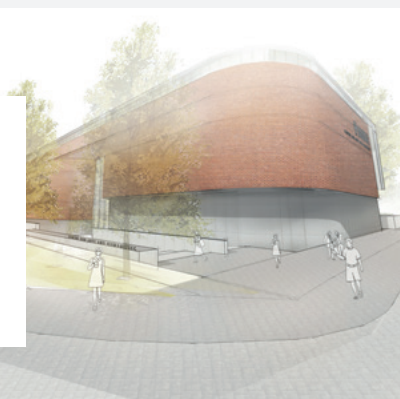


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A message from our Vice-Chancellor

2018 HAS BEEN ANOTHER GREAT YEAR FOR THE UNIVERSITY OF LIVERPOOL, WITH MANY SIGNIFICANT RESEARCH ACHIEVEMENTS AND STUDENT AND GRADUATE SUCCESSES.

From being named top in the Russell Group for the number of graduates in work or further study six months after graduating, to opening the Materials Innovation Factory, which houses one of the highest concentrations of materials science automation robotics in the world, there has been much to celebrate.

This year our IntoUniversity North Liverpool centre has helped more than 1,000 children and young people living in Anfield, one of the most deprived areas in the country, with their school work. Children attending the centre, which is a collaboration between the education charity IntoUniversity and the Liverpool Football Club Foundation, are doing better at school and are more likely to apply for university.

I am particularly proud of the impact of this project, which has been made possible thanks to a community of more than 71 donors, me included. I would like to take this opportunity to thank those who have given so generously and ensured that we are inspiring and supporting children and young people to achieve more at school and believe in their ability to go to university, regardless of their background. You can read more about IntoUniversity on page 19.



Highlights from our many research achievements can be found in the News section, on the next few pages. We have a fascinating feature on 'Digital Liverpool' on pages 24-27, which includes interviews with Colin Sinclair, CEO of Knowledge Quarter Liverpool, and Professor Joe Spencer, the University's Academic Lead for Sensor City.

I also want to highlight the work of other colleagues whose research has been particularly impactful. For the past 20 years, Professor Nigel Cunliffe has led a programme of rotavirus research in children in Malawi. This highly infectious stomach bug kills almost 200,000 infants and children in Africa and Asia each year. The work of Professor Cunliffe and his team led to the introduction of a new rotavirus vaccine into Malawi's childhood

immunisation schedule in 2012. The vaccine is now part of the vaccination schedule in 96 countries. An evaluation of its impact in Malawi was published in 2018, showing that it has reduced infant deaths by nearly a third.

In November 2018, a team of our researchers in the Department of Archaeology, Classics and Egyptology, working with colleagues from the French Institute for Oriental Archaeology in Cairo, announced that they may have solved the question of how the Ancient Egyptians built the pyramids. Working at the site of the Hatnub quarries, they discovered what could be the remains of a 4,500-year-old ramp system to transport the huge alabaster blocks used in the construction of Egypt's Great Pyramid. The extremely well-preserved ramp had a staircase on each side lined with postholes, to which ropes were possibly tied, thousands of years ago, to drag the huge stone blocks. This is a remarkable breakthrough, which may finally answer a question that has long puzzled Egyptologists.

Finally, on a personal note, 2018 was particularly memorable for me as I received my Damehood. My sincere thanks to all who took the time to write to me with your congratulations. I am proud to lead and represent this University, and hope that you enjoy reflecting on our successes, including those of the alumni and students featured in this issue of *Alumni*.

Professor Dame Janet Beer
Vice-Chancellor

University podcast series in top five list

The University's podcast series – which covers a wide range of topics including cancer-detecting smelling machines, Beatles tourism and astrophysics – has been named as one of Liverpool's top five podcasts by local tourism body Visit Liverpool. Listen now: www.liverpool.ac.uk/news/podcasts.



In conversation with Pep Guardiola

Pep Guardiola, Manchester City FC Manager and former FC Barcelona player, joined Liverpool academics for a sell-out lecture to discuss Catalan identity, culture, politics and sport as the keynote speaker for the University's annual Edgar Allison Peers Symposium. Watch the lecture online: www.liverpool.ac.uk/pep2018.

University of the future

Plans have been unveiled for a new campus for our joint venture institution in China, Xi'an Jiaotong-Liverpool University (XJTLU), in the city of Taicang, Jiangsu province. The campus, expected to open to students in 2020, will include space dedicated to research, learning and teaching as well as innovation and entrepreneurialism, and will offer students the opportunity to study in both China and the UK.



Liverpool Connect reaches membership milestone

Our networking and mentoring platform, Liverpool Connect, now has more than 3,500 alumni, staff and student users, with 1,336 members also registered to take part in our online mentoring programmes. Join the network today: www.liverpool.aluminate.net.





A lasting legacy of culture

The national and international reputation of Liverpool continues to be influenced by the European Capital of Culture a decade on, according to a major study between the University of Liverpool and Liverpool John Moores University, showing that 2008 was the year when external narratives changed and local people's sense of pride substantially improved.



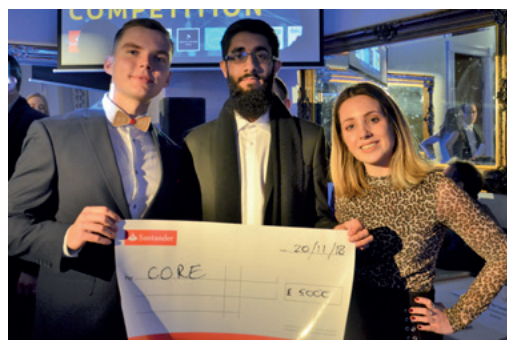
A game changer for cancer research

The Liverpool Head and Neck Centre will draw together world-class research and medical expertise for the high number of head and neck cancer patients in the Liverpool City Region, which has three times the national average of cases and compares with socio-economically deprived regions of India, South America and South Africa.



50 years of University Rugby League

The University welcomed alumni, guests and current student players for a weekend of activities to celebrate 50 years of both the University of Liverpool Rugby League club and the Student Rugby League.



Materials Innovation Factory officially opened

The new £81 million facility, part of a collaboration with Unilever, features cutting-edge robotic and computational equipment and will bring together some of the UK's most talented materials scientists and academics.



Supporting enterprising students

Santander Universities UK has been generously supporting some of the University's most entrepreneurial students as they turn their exciting business ideas into reality with seed funding, mentoring and start-up support. Santander also provides funding for overseas study opportunities and internships with local businesses, all contributing to improving the employability of our students.



New Game Design Studies programme

The new course, which can be studied as part of Architecture, Communication and Media, English, Music, and Philosophy degrees, will consider games and their design from all angles – from the practical elements of design and composition, to the philosophical questions to which gaming gives rise.

Space ageing experiment set for lift-off

Scientists at the Institute of Ageing and Chronic Disease are using funding from the UK Space Agency to study age-related muscle loss in microgravity. Astronauts can lose up to 40% of their muscle mass after six months in space. Our scientists hope that by studying these changes in astronauts they can better understand how we age.





LIVERPOOL SYMPHONY

THE UNIVERSITY'S NEW MULTI-MILLION POUND TEACHING AND PERFORMANCE SPACE WILL ENSURE THAT MUSIC REMAINS A TRANSFORMATIONAL POWER IN LIVERPOOL – BUT WE NEED YOUR HELP TO BUILD IT

Liverpool has long been home to a culturally diverse range of people who have been inspired to change the world in their own ways as global citizens. Like you, many of these people are graduates of the University of Liverpool – and together, regardless of academic discipline or circumstance, you share a collective memory of Liverpool's culture.

Music has a crucial role to play in this. When Liverpool was awarded UNESCO City of Music status in 2015, its place at the beating heart of worldwide culture was confirmed. It's a city where music is lifeblood, a proven force for social and economic good. It's a city of sound, and through our alumni that sound is echoing far and wide across the world today.

An iconic home for music

Needless to say, music is a proud focus for the University of Liverpool. We're committed to making the world's greatest music – specifically classical and contemporary compositional – performed by the best regional and touring musicians, accessible to all. We want to foster a deep-seated appreciation of the transformational power of music. Nowhere knows this power better than Liverpool.

Building on this, in the coming months we will be breaking ground on a new teaching and performance space. Situated on the south-east edge of the

University campus, it will house a 400-seat performance auditorium with an optimum acoustic profile and capacity for a 70-piece orchestra. It will also feature three combinable lecture theatres with a total capacity of more than 1,000 students, and provide exemplary seminar facilities.

Beyond teaching, practice and performance, the space will facilitate ventures with external partners and commercial opportunities. Concerts held within the auditorium will be open to the public as well as broadcast for television and radio. It will sit alongside some of the UK's leading concert venues, including the Liverpool Philharmonic Hall. It will exist as a destination for people of all ages and backgrounds seeking truly enriching musical experiences, and be easily accessible to outlying communities being positioned on the border between the entrance to the city and the University.

As a performance space, there is no equivalent. As a flexible and unique learning environment, there is nothing comparable. The University is tuning up

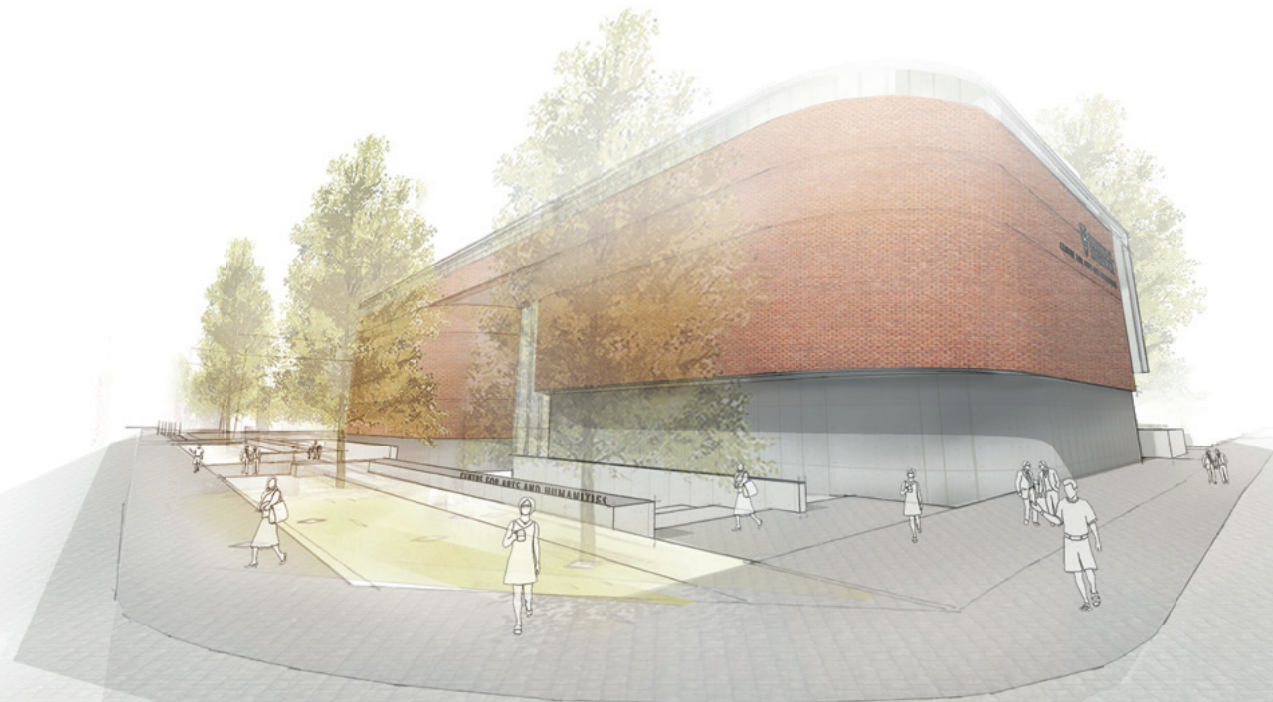
for the next stage in its cultural offering. With this space, we are seeking to create a new landmark for the campus and for the city.

Help us create the Liverpool Symphony

Graduates who have lived, worked, studied and played in Liverpool are performers in an ongoing symphony. Through them, the sound of Liverpool is now spread across the world, and its echo is profound. To remember the sound of Liverpool is to be reminded of a place in which careers have been made and lives have been changed.

We are investing £17.5 million in the project, and we need £3 million in philanthropic funding. It is a symphony in the making, but we need the help of our alumni community to finish it. ●

To find out how you can play a part in this exciting new venture and in doing so contribute to the cultural growth of Liverpool, please visit: www.liverpool.ac.uk/symphony.



WELCOME TO THE CLASS OF 2018

In July 2018, we welcomed more than 10,000 new graduates to our University of Liverpool alumni family.

Members of the Class of 2018 are entitled to a wide range of

benefits, including free access to online journals, invitations to social and careers-focused events around the world, and discounts on postgraduate study, travel and leisure, as well as membership of our exclusive

online networking platform, Liverpool Connect. Find out more about what your alumni community has to offer by visiting your dedicated Class of 2018 website: www.liverpool.ac.uk/class-of-2018.

TOP TIPS FOR CLASS OF 2018

1 Update your contact details

Stay connected to the alumni community to receive regular updates about what's happening across the University and how you can get involved.

2 Join Liverpool Connect

Sign up to our online e-networking platform, Liverpool Connect. Network with current students and fellow alumni to advance your career and join with like-minded graduates.

3 Check-out the alumni benefits

Being a Liverpool graduate comes with all sorts of benefits, from discounted hotels, access to online journals or a lifetime Guild membership. Check out all the benefits on offer at: www.liverpool.ac.uk/class-of-2018/discounts.



Honorary degrees were given to eight prestigious individuals in 2018, including three Liverpool alumni:

Dr Maria Balshaw CBE (BA Hons English Literature and Communication Studies 1991), the first female Director of Tate (see page 20 for more).

Professor Peter Gallagher (BSc Hons Chemistry 1983, PhD Organic Chemistry 1987), Executive Vice President for Strategic Sciences at Unilever and Visiting Professor at the University.

Jonathan Rushworth (LLB Hons 1970) a retired solicitor and the great-great-grandson of the founder of the Liverpool family music business, Rushworths.

Also honoured were David McDonnell CBE DL FCA, former University of Liverpool Pro-Chancellor and President of Council; Paul May, Senior Neurosurgeon at The Walton Centre; John Higgins, artist and writer for *2000 AD*, DC and Marvel Comics; Dr Clemency Fisher (pictured above with Vice-Chancellor Professor Dame Janet Beer and Chancellor Colm Tóibín), Emeritus Senior Curator of Vertebrate Zoology at National Museums Liverpool; and Professor Dame Jane Dacre, President of the Royal College of Physicians.



MAKING THE LAW

IT'S BEEN 125 YEARS SINCE THE LIVERPOOL LAW SCHOOL WAS ESTABLISHED. WE TAKE A LOOK AT SOME OF ITS GREATEST ACHIEVEMENTS

1882 – Law is taught for the first time at Liverpool. Funded by the Law Society, the Law Students' Association, the legal profession and money annexed from the funds provided by Queen Victoria.

1904 – The Faculty of Law is created with the constitution of the University of Liverpool. The direction of legal studies was made by a Board of Legal Studies initially consisting of members of the College, the Law Society and the Law Students' Association.

1918 – Following the First World War enrolment began to climb from zero students in 1918–19 to 168 in 1934–35.



► Backdrop: Staff and Honours students of the Faculty of Law, in the garden of Abercromby Square (1948–9)

1892 – Liverpool Law School is established, making it one of the oldest law departments in the UK.

1910 – Liverpool Law Students' Association host one of their first Mock Trials with the case of General Lee Hardupp versus Herr Robinson Caruso. The case focused on a noise complaint between General Lee, the plaintiff, and Herr Robinson, a 'noisy' music teacher.

1972 – Liverpool Law School alumna Dame Rose Heilbron DBE QC becomes the first female judge to sit at the Old Bailey.



1966 – Faculty of Law Building on Chatham Street formally opened by Lord Denning.

1982 – The Cayman Islands Law School was established, an affiliation between the government of the Cayman Islands and the Liverpool Law School, where students receive University of Liverpool (LLB) degree programmes.



2001 – Honorary degree (Doctor of Laws) conferred upon Yoko Ono, artist and founder of the University's John Lennon Memorial Scholarships.

2018 – The Liverpool Law Clinic, a pro-bono centre at the University offering free legal advice to the public, celebrates 10 years serving the community. The clinic has afforded students the opportunity to work on many high-profile cases, including the Hillsborough inquests.

2014 – Strategic partnership agreement with the University of Law to offer joint and dual programmes in Law with Business and Management Education, the first major collaboration of its kind in the UK. Baroness Hale, then-Deputy President of the Supreme Court, officially opens the Liverpool Law Clinic's new premises.



2019 – The Liverpool Law School will move into a new £25 million home as part of the new School of Law and Social Justice.

2016 – Wendy Beetlestone (BA Hons Philosophy 1984), a US District Judge nominated by Barack Obama, speaks at the annual Liverpool Law School lecture.

DAME ROSE HEILBRON: ENGLAND'S FIRST FEMALE JUDGE

HOW TRAILBLAZER AND UNIVERSITY
OF LIVERPOOL ALUMNA DAME ROSE
HEILBRON CHANGED THE FACE OF
THE LEGAL PROFESSION

Born and raised in Liverpool, Rose Heilbron attended the University of Liverpool between 1932 and 1937. She graduated with a First Class LLB degree, “the first of many subsequent firsts in her life,” says Dr John Tribe, a lecturer in Law at the University of Liverpool.

An exceptional student by all accounts, Rose exhibited during her time at University the work ethic that she would become known for throughout her career. Upon gaining an LLM she went on to the Honourable Society of Gray's Inn. In 1936 she became

the first woman to be awarded the Lord Justice Holker scholarship.

Three years later, Rose was called to the Bar before being elected to the Northern Circuit. Her practice focused on criminal defence work and personal injury work. Despite institutional sexism (Rose was prohibited from taking part in ‘bar mess’ at the time), she achieved a great deal of success during her career. Involved in defending many of the causes célèbres of her day, Rose was the first woman to lead in an English murder case and the first

female to sit as a judge at the Old Bailey. Later, she became the second female High Court judge and eventually the first female leader of the Northern Circuit.

Rose retired in 1988 – but not, John says, before culminating with a final first: being elected the Treasurer of Gray's Inn, the first female Treasurer of any of the four Inns of Court. She passed away in 2005, survived by her daughter Hilary, herself a silk and author of Rose's biography. The next generation of women in the legal profession, from Cherie Booth to President of the Supreme Court Baroness Brenda Hale, have credited their success to Rose's work, life and legacy.

“It should be of no surprise that Rose has had a lasting and profound influence on women in the legal profession,” says John. “This is because of both her undoubted professional success and excellence, but also because of her trailblazing activity in balancing the heavy demands of professional life with the equally heavy demands of family life. She combined both with great success.” ●

Join the Liverpool Law School Alumni Association

Stay connected with the University, the Liverpool Law School and fellow alumni, and benefit from career development and networking opportunities.

Find out more: www.liverpool.ac.uk/law/alumni.

2019 UNIVERSITY OF LIVERPOOL ALUMNI AWARDS

THIS YEAR, WE ARE
LAUNCHING OUR
FIRST ANNUAL
ALUMNI AWARDS,
RECOGNISING THE
IMPACT, SUCCESS
AND ACHIEVEMENTS
OF OUR GRADUATES.

10 graduates and 10 recent graduates will be recognised for their successes in the world since they graduated. Find out more information, including how you can nominate a Liverpool graduate, via our website: www.liverpool.ac.uk/alumni/awards.



**CLOSING DATE FOR
NOMINATIONS:**
Friday 10 May 2019

**THE AWARDS WILL
BE PRESENTED IN
AUTUMN 2019.**

NAVIGATING UNCHARTED TERRITORY

ALUMNI SAT DOWN WITH THREE YOUNG ENTREPRENEURS FROM THE WORLDS OF GIN, PROPERTY MANAGEMENT AND HIGH FASHION TO LEARN MORE ABOUT THEIR BUSINESSES, THEIR MOTIVATIONS AND HOW THE UNIVERSITY HELPED THEM ALONG THE WAY.

For some students and graduates, the road less travelled leads to more. The University of Liverpool has a strong reputation for its support and flexibility in encouraging and developing the next generation of entrepreneurs. Our Enterprise Programme exists to help students of the University build new or existing business ideas, and through our Enterprise Fund budding entrepreneurs can win up to £500 kick-start funding.



BETH HERON
www.in2gin.com

“I SAID AT THE START THAT EVEN IF THIS DOESN'T LEAD TO ANYTHING I'M STILL LEARNING SKILLS THAT ARE INSTRUMENTAL IN A FUTURE CAREER, WHETHER THAT'S IN GIN OR OTHERWISE”

It was while working in Liverpool bars that BA (Hons) Marketing undergraduate Beth Heron had her business idea. The gin market was saturated, but nobody seemed to be investing in the 'added extras' – garnishes and flavourings in particular. Beth started experimenting in her kitchen and before long she had developed three gin infusion packs. In2Gin now trades extensively across Liverpool, at trade shows and online.

The University of Liverpool has supported Beth along the way, opening up networking opportunities and enabling her to study her business. “I'm getting key insights into my customers and how they interact, and how I can capitalise on that,” she says.

The University also introduced Beth to Santander UK, who helped her set up a business bank account. She participated in the Santander Entrepreneurship Awards on behalf of the

University, competing against other student start-ups, and was recently awarded £500 by the University and Santander's Enterprise Fund.

As an undergraduate student growing her own business, Beth might be in a minority – but she doesn't think she need be. “I really enjoy what I do. University is a great place to start a business because you've got an unparalleled support system at hand.”



JOE DAVIES
www.host-so-simple.com

“ONE-DAY MODE CAN LAST FOREVER; BEFORE YOU KNOW IT YOU'RE IN A FULL-TIME JOB AND ONE DAY IS EVEN FURTHER AWAY THAN WHEN YOU STARTED”

Joe Davies (BA Business Management 2017) couldn't have asked for a better placement than the one he got whilst studying at the University of Liverpool; a great culture, flexible hours and plenty of extra curricular activities. There was just one problem: he didn't like it. “I was worried that if I didn't like that, then what was I going to like?”

At the same time, Joe's partner, Katie, was servicing an Airbnb property. Realising that

there was a viable business in servicing local Airbnb properties, the pair set up a website and welcomed their first clients. By the time Joe was back at University for his final year, Host So Simple had nine clients. “I didn't want the business to fizzle out,” he says. “I was running into the library stairwell to answer client calls. It was tough.”

Joe and Katie recently competed in the Santander University Challenge, where they

received support on business plans, tips and presenting, and inspiration from other young entrepreneurs. Now, their business services more than 100 properties across Liverpool and Manchester. “A lot of people have business ideas, but those ideas normally stay inside,” says Joe. “Getting it onto paper makes it more real. It gets your ideas in motion and your mind into a this-is-happening mode instead of a one-day mode.” →

“I CAN’T STRESS ENOUGH THE VALUE OF GAINING WORK EXPERIENCE IN THIS INDUSTRY. FASHION BRANDS ARE CRYING OUT FOR PEOPLE TO COME ONTO THE BUSINESS SIDE”



JENNIFER DAVIES
www.nabilnayaal.com

Last year, Jennifer Davies (MSc Operations and Supply Chain Management 2016) was awarded the British Fashion Council Fashion Trust prize for Nabil Nayaal, the luxury fashion brand she co-directs. Stocked internationally, its patrons include Rihanna, Victoria Beckham and Lady Gaga.

In the wake of the win, Nabil Nayaal made its inaugural appearance at London Fashion Week, the highlight in the calendar of luxury fashion brands the world over. “We’d never done anything like it before,” says Jennifer. “We were thrown in at the deep end as we only decided to do the presentation

eight weeks before. It was all consuming, but ultimately an incredible experience.”

Jennifer is now looking ahead to Paris Fashion Week and numerous British Fashion Week events. In addition to co-directing her brand, she is doing a PhD at Liverpool in sustainable supply chain management in the fashion industry.

“Something I learned in my MSc at the University of Liverpool was to take the bigger picture and break it down into smaller projects,” says Jennifer of her strategy for success. “It makes things much easier to achieve. As for working in fashion, the knowledge that I’ve gained on supply chains and the management of them has proven invaluable to me.” ●

Join our Professional Interest Network for Entrepreneurship & Social Enterprise: www.liverpool.aluminate.net/groups/entrepreneurship.



INTO UNIVERSITY NORTH LIVERPOOL

► LFC goalkeeper, Simon Mignolet, with local school children at the launch event.

OPENING DOORS TO BRIGHT, INSPIRING FUTURES

In its first year, the IntoUniversity North Liverpool centre in Anfield has given more than 1,000 students a quiet and safe place to study, inspirational mentorship, one-to-one academic tutors and a taste of what higher education can offer them.

Precious started attending Academic Support sessions at IntoUniversity North Liverpool in 2017, after her family moved to the UK from Luxembourg. To aid her development, she was paired with IntoUniversity mentor Lady Tettey, an English Literature and Business student from the University of Liverpool. Lady attended the IntoUniversity centre in North Kensington from the age of eight.

Precious said: “Having a mentor built up my confidence a lot. I have learnt a lot of things about

university and all the opportunities on offer. Also, when I have problems in school, I can come to the centre and someone will listen to me.”

As part of the mentoring programme, the pair visited the University of Liverpool’s School of Medicine, which had a significant impact on Precious who is now even more determined to achieve her goal of becoming a paediatrician.

Lady said of the visit: “I was just smiling so much seeing Precious get more and more excited about the medical school. Being a mentor has helped me to better understand young people of that age – they’re not children, they’re not adults, but they need your advice. I’ve had fun during a difficult year and looked forward to it each week.” ●

IntoUniversity North Liverpool has been made possible by donations from our alumni and supporters. You can open doors to inspiring futures by supporting us. Find out more: www.liverpool.ac.uk/giving/intouniversity.

“IntoUniversity has made me realise that education is important. I’ve had a wake-up call about revision; I want better grades and a good future. My life’s completely changed”

– Kansan, IntoUniversity North Liverpool student (pictured right)



WHEN MARIA BALSHAW CBE WAS APPOINTED AS THE NEW DIRECTOR OF THE TATE ART GALLERIES AND MUSEUMS, SHE BECAME THE MOST POWERFUL WOMAN IN BRITISH ART. IN HER WORDS, THIS IS HOW LIVERPOOL SHAPED HER FUTURE

THE MOST POWERFUL WOMAN IN BRITISH ART

Attending university was a leap of faith for me. I'd come from a working-class, Irish Catholic background, and the comprehensive school in which I'd been educated was judged the UK's worst school in the first year of Margaret Thatcher's league tables. While I was earnestly devoted to books, I was understandably daunted by the prospect of life at an institution like the University of Liverpool.

While I wish I could say I was attracted to the University for academic reasons, the reality is different: I went because of my lifelong love for Liverpool FC, born out of rebellion against my father's love of Manchester United. Eventually, though, I come to realise that football prowess – even that of Kenny Dalglish's dream team – was no indicator of how much I would enjoy studying English Literature. I quickly found myself lost in a new city.

During my studies I had two marvellous feminist tutors who pointed me towards a road I didn't even know was there and opened my eyes to the opportunities available to me. I added Communication Studies to my

Photograph ©Hugo Glendinning, 2017



English Literature degree and spent much of my three years reading Stuart Hall, Julia Berger and many others – writers I still draw on in my work today.

Making art accessible to all

I arrived in the city as Tate Liverpool opened its doors. It was the first gallery I felt was 'mine', so to speak. I didn't come from an especially gallery-going family, so it was here that I learned to start looking at art properly. I saw Dali's *Lobster Telephone* and was hooked. I found myself one Sunday lying on the floor of the gallery staring up at Richard Long's *Norfolk Flint Circle*. I didn't know it at the time, but that was the beginning of the career I have now.

Upon graduating, I planned to embark on an academic career. After teaching and leading academic research projects, I was asked to lead Creative Partnerships in Birmingham. This important pilot project brought artists and arts organisations into the schools that would otherwise have not been able to connect to them. It resourced supporting the creativity of young people, whatever their background.

The sense of welcome and ownership I felt for Tate Liverpool as 'my' part of the nation's collection is a feeling I try to extend, as Director of Tate, to those who are visiting the Tate galleries and museums globally. My visits there as a student impacted the course of my life hugely. For me, this all began in Tate Liverpool.

This underpins my mission at Tate. I want the next decade to be a time when more diverse audiences enjoy art and culture. There has to be a change in who comes to art galleries. Older patterns of exclusion need to be left behind. The Tate galleries need to lead the way; Tate changes what the world thinks about art and changes the art the world thinks about.

I'll close with a thought about the world just now. If my life history to date demonstrates anything, it is the importance of our cultural and creative infrastructure in unlocking the potential in young people. I found myself, as well as art and ideas, in the cultural encounters I had in Liverpool. To me, art allows us to see and to think about the world through different eyes. It posits the idea that there may be more than one answer – or no answer at all – to complex questions about life and society. This is completely vital in an evermore complex world. ●

Read more stories from your alumni community on our website: www.liverpool.ac.uk/alumni/meet-our-alumni



ENGINEERING EXCELLENCE

WHY THE UNIVERSITY OF LIVERPOOL'S MECHANICAL ENGINEERING GRADUATES ARE AMONGST THE MOST EMPLOYABLE IN THE UK

In seven decades of supporting the shifting priorities of the British nuclear industry, the Sellafield nuclear site on the Cumbrian coast has become one of the biggest environmental remediation challenges in Europe – and one without a blueprint.

Mechanical Engineering students from the University of Liverpool are having a significant hand in its clean-up. The School of Engineering runs projects called Capstones, aimed at consolidating and applying knowledge gained over the degree. Presently, one concerns the design and build of a nuclear rover with systems that can withstand nuclear radiation, to be deployed in Sellafield as part of the decommissioning process.

"This Capstone is a perfect example of our students not just working within our four walls but actually solving real-world problems with industrial partners," says Dr Matt Murphy, a Senior Lecturer in Engineering

Design at the University of Liverpool and Module Coordinator for the Capstones.

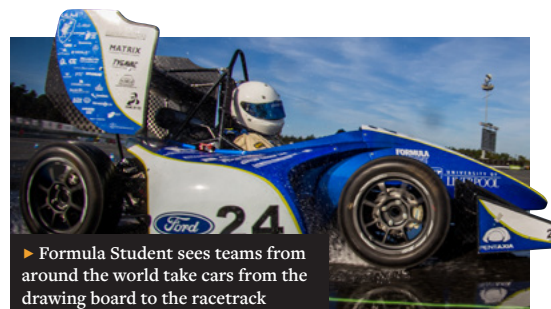
Beyond nuclear

Other Capstones concern sport – most notably Formula Student. Established by the Institute of Mechanical Engineers, it's a testing ground for the next generation of engineers. The competition sees students from universities around the world design, build and race a single-seat racing car. "Students combine their scientific education with their knowledge of design principles and computer-aided tools to design, develop and build a race vehicle," says Matt. "In two

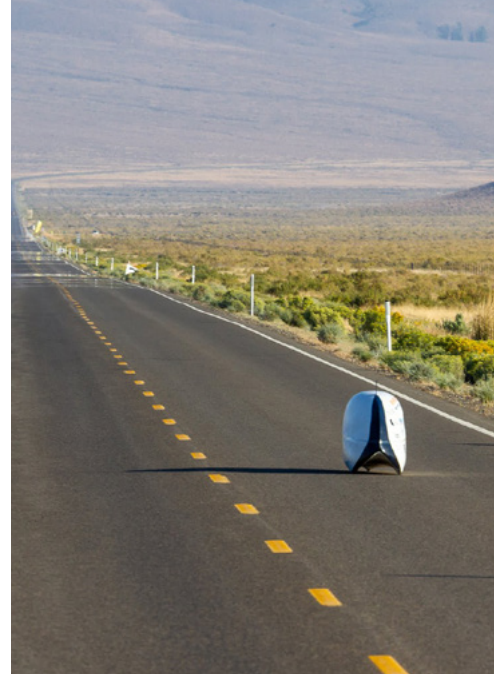
years they go from zero to a car that zips around Silverstone. They're required to spend about seven hours per week on the project in third year and double that in fourth, but most end up living and breathing their projects every day. It's a lifestyle choice as much as an academic decision."

Similar is the World Human Powered Speed Challenge, which takes place each June in Nevada, USA. In 2018, the University team broke four world records in the arm-powered category. "These are incredible experiences for students," says Matt. "They're international competitions that students earn credits for. They work full-time as pre-professional

"Students are working under high pressure with big stakes, huge budgets and international teams. It's as close as they can get to professional engineering at university"



► Formula Student sees teams from around the world take cars from the drawing board to the racetrack



► The World Human Powered Speed Challenge takes place in Nevada, USA, in June each year



engineers, fitting everything else around that."

Another current Capstone involves the Institute of Veterinary Science's Leahurst Campus. "The mortality rate of horses after general anaesthetic is one in 100," says Matt. "They try to stand up too quickly and damage their legs. Students on this Capstone have been briefed by veterinary surgeons to design, build and test a rope-assisted recovery system to improve vet safety and improve patient survival rates."

Employable engineers

Entrepreneurship is also factored into Capstones, with one specifically aimed at developing the next generation of folding bike. According to Matt, existing offerings in this market fail to appeal to many market sectors. "This project involves much more business planning and commercial work. It's industrial design and engineering for a consumer product."

The University of Liverpool's commitment to offering Capstone

projects came about as part of a long-term educational reform in the School of Engineering. The University was one of the early adopters of a teaching framework called the CDIO™. Established by the Massachusetts Institute of Technology (MIT) in response to industry concerns, it provides students with an education focused not just on the acquisition of scientific knowledge, but equally on the development of graduate personal and professional skills that are essential in 21st-century professional engineering and our society. Capstone projects are an essential part of this.

For the last two years, the University of Liverpool's Mechanical Engineering students have topped the government's Destination of Leavers from Higher Education survey. "This survey provides useful data on employability, and 100% of our Mechanical Engineering graduates are in professional jobs six months after graduation," says Matt. "We have an industrial liaison board, and the employers on it report that our graduates are distinctive in their confidence, communication, practical skills and teamwork. This is all evidence proving that Capstones really work, because this is where

these skills are fully honed and developed. Students are working under high pressure with big budgets, huge stakes and international teams. It's as close as they can get to professional engineering at university."

Beyond what Capstones mean in terms of employability, it's not hard to see their attraction for students. "Imagine being able to sit down in a job interview and tell the story of how you and your colleagues built the world's fastest human-powered vehicle or improved clinical outcomes in equine surgery around the world. Imagine being able to say that you contributed to cleaning up Sellafield. It's stories like these that help convince employers that our graduates have what it takes to succeed." ●

The James Moruzzi Engineering Enterprise Award
Current students and recent graduates are invited to apply for a new award of up to £5,000 to support them in their pursuit of developing innovative engineering solutions with potential to create new products. The award recipient will need to demonstrate a passion for their project, will receive support and mentoring throughout, and will benefit from using state-of-the-art facilities in Sensor City. Find out more: www.liverpool.ac.uk/giving/opportunities.



Colin Sinclair, CEO
Knowledge Quarter Liverpool

JUST OVER A DECADE AGO, AS THE EUROPEAN CAPITAL OF CULTURE, LIVERPOOL TOOK BACK ITS CULTURAL IDENTITY. TODAY, THE CITY IS HARNESSING THE TRANSFORMATIVE POWER OF DIGITAL TO TAKE ON SOME OF THE GREATEST CHALLENGES AND OPPORTUNITIES OF OUR TIME

For Colin Sinclair, the CEO of Knowledge Quarter Liverpool (KQ Liverpool), Liverpool has been a city of transformation since Capital of Culture. Tourism, regeneration and a burgeoning knowledge economy have continually powered the city forward – to the point that it has morphed from a post-industrial city into one of the flagship metropolises of the digital revolution.

KQ Liverpool lies at the beating heart of the city's work to this end. An on-going,

multi-billion pound, 450-acre development spanning the city centre as well as the city's university campuses and their numerous world-leading facilities, it aims to bring together the city's key partners to collaborate, to grow the local economy, and to ultimately close the societal gap between the digitally rich and the digitally poor.

"KQ Liverpool doesn't just concern the area of Liverpool in which it's situated," says Colin. "It's having an impact on the rest of the city, the wider Liverpool City Region (LCR) and the Northern Powerhouse as a whole. It's transforming a place whilst improving people's lives." →



Future proofing

Sensor City, a newly opened collaboration between the University of Liverpool and Liverpool John Moores University, and part of KQ Liverpool, is doing just this. It's a space for academics, organisations and start-ups to work together as a community in developing sensor solutions across all aspects of society, from energy and aerospace to manufacturing and healthcare.

"Sensors are used in almost every sector today," says Professor Joe Spencer, the University of Liverpool's Academic Lead for Sensor City. "We're using them not just to measure temperature or light, but to get a holistic view of entire systems. Sensors can tell you the temperature, blood pressure and heart rate of a hospital patient, for instance, but without combining that data in a holistic way you can't tell how the patient really feels."

Sensor City is currently investigating the opportunities of community wi-fi in health and social care, a project made possible by a £3.5 million grant awarded through the Department for Digital, Culture, Media and Sport's 5G Testbeds and Trials programme. Low-cost, open-source 5G network technology was installed in the Kensington area of Liverpool, affording the residents of one of the most deprived areas of the UK a previously inaccessible means of communication.

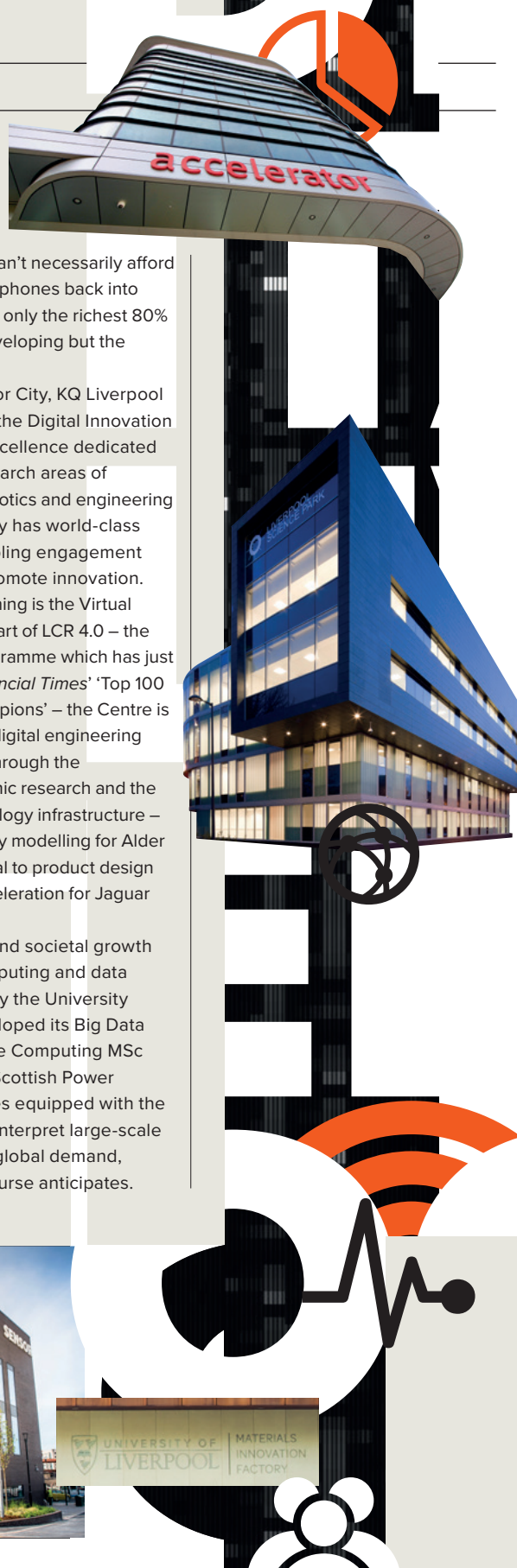
"And we're thinking of other services on top of this," says Joe. "We're trying to create a local communication cooperative, a consortium that will use this technology to reduce the digital divide locally, and to build in things like outpatient monitoring and support for the lonely. Really, this is technology that is going

to bring people who can't necessarily afford the internet or mobile phones back into society, so that it's not only the richest 80% of society who are developing but the poorest 20% too."

In addition to Sensor City, KQ Liverpool will soon be home to the Digital Innovation Facility, a centre of excellence dedicated to combining the research areas of computer science, robotics and engineering in which the University has world-class capabilities, and enabling engagement with businesses to promote innovation.

Already up and running is the Virtual Engineering Centre. Part of LCR 4.0 – the business support programme which has just been listed in the *Financial Times* 'Top 100 European digital champions' – the Centre is delivering innovative digital engineering solutions to industry through the exploitation of academic research and the latest scientific technology infrastructure – from paediatric surgery modelling for Alder Hey Children's Hospital to product design and development acceleration for Jaguar Land Rover.

Digital innovation and societal growth require powerful computing and data solutions, which is why the University of Liverpool has developed its Big Data and High Performance Computing MSc scholarship with the Scottish Power Foundation. Graduates equipped with the skills to manage and interpret large-scale datasets are in huge global demand, a reality which this course anticipates.



Where great discoveries are made

The humanities are likewise benefiting from Liverpool's pioneering digital work. Using digital technologies to bring together existing and new genealogical, biometric and criminal justice datasets has allowed researchers at the University of Liverpool to trace the lives of British and Australian convicts. Of interest to the 12 million family historians active in the UK, not to mention the families of those involved, the project crucially addresses the social policy concern of criminal rehabilitation and penal estate costs.

Even teaching at the University is benefiting from digital advances with the creation of Stream Capture, which records lectures for students to refer back to at a later date. This has the added benefit of helping students with learning difficulties and those whose first language isn't English to review the lecture content and slides at their own pace. The system was designed and built by the University's own Computing Services Department. Since its launch in 2015, it has captured more than 32,000 lectures which, if viewed back to back, would take 1,210 days to watch, and have been viewed by students more than 8 million times.

Creating true wealth

Liverpool's mark on the digital world may be young yet, but it's already significant – a reality apparent in the amount of inward investment in the city. "Eight years ago," says Colin, "investors would have turned away from Liverpool. Now they're all coming here. Students have recognised the city's potential for a long time, and investors are finally doing the same."

As for the implications of Liverpool's mark on the digital world, that too is significant, and not just locally. "We're a city with an enormous opportunity to get things right and make a huge difference,"

"Sensors can tell you the temperature, blood pressure and heart rate of a hospital patient, for instance, but without combining that data in a holistic way you can't tell how the patient really feels"

says Colin. "We're positioning ourselves to take the lead and make change, and we're having an impact globally."

"We don't just want to regenerate our city and make it a global world-class city region though; we want to focus on health and social justice through our multi-disciplinary expertise and collaboration, particularly through digital innovation. We want to create wealth, but we want to do it the right way. I can't think of another city that has done, or is doing, more than Liverpool to close the gap between the richer and poorer in society in terms of wealth and digital connectivity." •

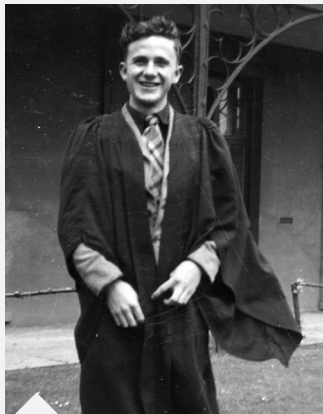
Find out more about how our digital research is changing lives:
www.liverpool.ac.uk/research



Class NOTES

*Where has life taken
your classmates since
graduation?*

Find more online:
**[www.liverpool.ac.uk/
alumni/class-notes](http://www.liverpool.ac.uk/alumni/class-notes)**



» 1940s

Robert Jackson (BEng Hons Mechanical Engineering 1943) remembers his class completing their Engineering studies in a building that had suffered from a parachute bomb exploding outside and undergoing military training at University. After the war ended, Robert joined the Shell Research Centre where he worked on car engines and was later seconded by Shell to the company that built the world's first liquefied natural gas plant. He later lived in China where he worked on coal gasification and taught students English, and in the US where he worked on methanol as the world's cleanest fuel.

Betty Norris (née Ellerker) (BSc Hons Chemistry 1948) worked in public analysis in Liverpool and Kuala Lumpur, Malaysia for 16 years followed by five years teaching Maths and Chemistry in Melbourne, Australia. Betty then spent 13 years as Technical Secretary to the National Health and Medical Research Council's Food Standards Committee in Canberra, Australia. She and her late husband, **Richard** (BSc Hons Chemistry 1948), spent 56 happy years together living in the UK, Malaysia and Australia. Colin retired as a Government Analyst in 1988. Betty is now 92 and lives in Canberra, having retired more than 30 years ago.

» 1950s

John Richmond Davey (BDS 1952) celebrated his 90th birthday in January 2019. One of his five grandchildren is a Liverpool Medical graduate and GP who is expecting what will be John's second great-grandchild.

Hilary Fox (née Colecliffe) (BA Hons French 1952) met her husband **Michael** (BA Hons French 1952) on entering the University in the Victoria Building in 1948. They lived in Paris for 20 years after retiring in 1994 before moving to Amsterdam in 2014.

James (Ralph) Gibbs (BA Hons Hispanic Studies 1952) lived in Derby Hall (Greenbank) from 1949 to 1950 and played in the Rugby A and B teams and also the tennis second team. After graduation, Ralph took up a scholarship at the University of Virginia, Charlottesville. He now lives in Bournemouth after a career taking him to Canada, Britain, Germany, Indonesia and Thailand.

Tony Stevens (BCom Hons 1957) was an RAF Officer during his three years of National Service. Tony (also known as Steve at University) had a career in sales spanning

Burroughs, Mitsubishi, Datapoint and Ericsson. He married his classmate **Tessa Harrington** (BCom 1957) in 1960. Their daughters attended Bristol, Liverpool, Balliol College, Oxford and Hull universities and their son attended Manchester. They now have 12 grandchildren and another on the way. Those old enough have attended or are attending university: one is a doctor, another studying dentistry – all that's needed is a physiotherapist and an undertaker and everything is covered!

» 1960s

Dr Robert Atlay (MBChB 1960) started his career as a house physician and chose a career path in obstetrics and gynaecology. He moved up through the ranks in Liverpool, Nottingham and Sheffield, returning to Liverpool for a consultant position at Mill Road, Sefton and Broadgreen in the 1970s. He spent 25 years in this position before moving to the Liverpool Women's Hospital where he ended his career as Medical Director. Robert has always been involved in medical politics and was a Council member at the Royal College of Obstetricians and Gynaecologists in London for 20 years, serving as Honorary Secretary for seven years. He worked as an examiner at eight universities and served as Her Majesty's High Sheriff of Merseyside in 2003–2004. He retired from the NHS in 2001 after 41 year's service.

Richard Neal (BEng Hons Electrical Engineering 1961) reunited with the Engineering Class of 1961 in 2017 to celebrate more than 56 years since graduating from the University. The graduates meet every two years and on this occasion Richard met with his fellow graduates at the Victoria Gallery & Museum for lunch before they separated for optional visits to the Metropolitan Cathedral and the Mersey Tunnel Tours. They arranged for an exclusive visit to Air Traffic Control at

Liverpool John Lennon Airport and enjoyed a meal at the Crowne Plaza Hotel, replicating their annual dinners of the past with toasts, speeches, a notable guest speaker and singing 'The Engineers' Song'.

Peter Whittaker (BSc Hons Biochemistry 1961) went on to complete his PhD at the University of Leicester and lecture at the University of Hull and the University of Sussex. In 1978 he was appointed Professor and Head of Biology at Maynooth University in Ireland and from 2002 to 2008 he was Professor of Biological Ethics at Lancaster University. He was Vice-President of The Royal Zoological Society of Ireland, Secretary General of the International Union of Biological Sciences and a member of the European Group on Ethics which advised the President of the European Commission.

Dr Janet Massey (MBChB 1968) continues to publish papers in lymphology, the third vascular system, that is not discussed so often. After graduating, having four sons and working in various posts in the North West of England and Germany, she achieved her dream of attaining a UK GP Partnership in Felixstowe. Janet met with her former classmates in Liverpool recently to celebrate 50 years since graduating and enjoyed seeing how fit, happy and self-fulfilled everyone was and how grateful they are to the Liverpool Medical School for their educations.

Richard (Rick) Cowley (BA Hons Geography 1969, MCD 1971) and his wife, **Karen** (BA Hons Geography 1969), have continued their retirement travels, most recently to southern



Africa, thereby completing trips to each of the seven continents. They live in Rosendale, Lancashire, enabling regular trips to Liverpool, most recently to see the amazing Giants parade through the city. Rick pursued a career in town planning and Karen one in education, before

they both retired in 2005. Both are currently involved with the Rochdale Field Naturalists' Society, Karen with the Yorkshire Dales Millennium Trust and Rick with the Friends of the Dales.



Richard Baldwin MBE (BCom Hons 1969) qualified as a chartered accountant in 1972 and then specialised in tax. He retired as Tax Partner

in Deloitte in 2005 where he was able to pursue his love of sport in a professional capacity, being the tax part of the team that successfully bid for the London 2012 Olympics. He was awarded an MBE in 2012 for his services to sport. He continues to provide pro-bono tax advice to community sports clubs, which have used tax breaks to get money back from HM Revenue and Customs.

» 1970s

Dr Ann Mundy (BSc Hons Biochemistry 1976, PhD 1981) worked at Unilever Research for a



year after her degree. She then went on to gain her PhD at the University, which led her to work for Bass Brewery in Runcorn as Management Trainee and then as Brewery Chemist. Ann moved to the Bass headquarters in Burton-on-Trent and became Chief Chemist. She worked for the company, which eventually became Molson Coors, in the technical function as a Quality Manager, with a lead role in Analytical Chemistry, Quality Management Systems, Food Safety and HACCP. She met her husband, Tim, in Liverpool, has two children and retired in 2010. They spend their time playing music, holidaying in their caravan and generally enjoying life. ➔



Peter Cluderay (BA Hons Modern History and Politics 1971, PGCE 1972) and his wife, **Anne (née Owen)** (BSc 1972), met as freshers at a Rathbone Hall disco more than 50 years ago. They shared student life at the University together and married during their studies. Peter has now retired from his job as a history teacher and Anne retired after a career as a medical laboratory scientist. They have two daughters, four grandchildren, two Cavalier King Charles Spaniels and live in Bishop's Stortford.

Alan Bloor (BSc Hons Genetics 1977) worked as a Lab Technician in the Genetics department at the University of Southampton. Alan used this experience to become a biomedical scientist, specialising in blood transfusion. He worked in Oxford and then Leicester until he reached Senior grade. He took early retirement in 2015. He has been married to his wife, Caroline, for 36 years. They have two daughters, one grandchild and are expecting another this year.

David Dunkley (BSc Hons Zoology 1977) attended the University on a Civil Service Department bursary. After graduation, he returned to the Freshwater Fisheries Laboratory Field Station in Scotland to continue research on the Atlantic salmon population in the North Esk. He moved to Edinburgh to take up the post of Inspector of Salmon and Freshwater Fisheries and later on this role was combined with Head of Policy. He retired in 2008, before earning an OBE in 2009 for his services to salmon and freshwater fisheries and conservation. He is currently involved with the Montrose Natural History and Antiquarian Society and dedicates volunteer work to Healthcare Improvement Scotland.

Mark Austin (BSc Hons Geology 1979) emigrated to South Africa in 1981 to work on the deep gold mines. Mark spent time in Mining and Exploration and built a small gold mine in Kenya. For the past five years he has had his own geological and mining consultancy that operates throughout Africa.

1980s



Dr Berna Bridge (BEng Hons Electronic Engineering 1981) has completed her Doctorate in Leadership and Management and become a lecturer and

Mick Hegarty (BEng Hons Electronic Engineering 1982) is settling into his second job after leaving Liverpool. He spent 34 years at BT in a range of management and commercial roles. Mick is currently at GBC, a data business. He lives in London but is also in Chester a couple of days a week. His youngest child is studying Maths at Liverpool and is loving it.

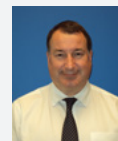


academic, teaching Leadership and Management in the Engineering Department and Professional Ethics in the Architecture Department in Turkey. Berna lecturers in Oxford at the Erasmus Centre and has published books on leadership and management, ethics and communication in leadership. She has two sons. One is an electronic engineer living in Turkey and the other is a lecturer in Philosophy of Education at Oxford Brookes University.

Dr Jerry Walker (BA Hons Biochemistry 1982, PhD 1987) is the CEO at Intelligent Fingerprinting Ltd in Cambridge. Jerry works on developing drug screening devices based on the collection and analysis of fingerprint sweat samples for use in a wide range of applications.

Ian Simmons (BVSc 1985) has been an Honorary Associate Professor and Consultant of Paediatric and Neuro-Ophthalmology at Leeds Teaching Hospitals NHS Trust since 2001. Ian's international research interests include paediatric ophthalmic oncology and neurofibromatosis. He set up a retinoblastoma treatment centre in Uganda in 2009. He has been the singer in The Soul Surgeons Band for 22 years and

is a father of four. Playing too much rugby means his knees are in a bad way but worldwide travel is still possible and enjoyed.



Andy Kirchin (BSc Hons Geophysics with Geology 1987) is now working in Houston as Managing Director, Energy (North America) for RPS Group PLC. In his dual role as Global MD for the Training Division, he is now working with **Gary Nichols** who was teaching at Liverpool during his undergraduate years!

Ted Robertson (BA Hons Modern History and Politics 1989) studied at the University of Reading for a postgraduate diploma in careers advice, after graduating from Liverpool. He later obtained a post as Careers Advisor at Liverpool Polytechnic (now Liverpool John Moores University). He was involved with the new careers education module and retired in 2000. Since then, Ted has been reading more than ever and enjoys the company of his University friends and his wife. He is also trying to improve his crown green bowls, but with very little success, he is sad to report.

1990s

Sally Mattison (BA Hons Combined Honours 1990) is organising a reunion for Saturday 11 May 2019 for anyone who stayed in E block of Morton House halls between 1986 and 1987. If you're interested, you can email Sally via: liverpool86reunion@gmail.com.

Richard Saunders (BEng Electronic Engineering 1994) obtained his European Diploma and Specialist status in Zoo Health Management this year and was presented with the Ceva Vet of the Year award.

Sara Kettle (MCD 1995) pursued a career in conservation and urban design and then proceeded into economic development and regeneration. This led her to take a regional role in terms of maximising the economic impact of a £120 million new build scheme. Sara is now working in a strategic regional role on behalf of 10 public sector agencies to support children who are affected by the imprisonment of a parent.



Jason Hodgson (BSc Hons Computer Science and Psychology 1996) launched his own record label, Barrel And Squidger Records, which led to a debut release of the 7" EP *Rock Remembers Rick*, in memory of Status Quo's Rick Parfitt and to raise funds for a children's cancer charity. In addition to tracks by Massive Wagons and Walkway featuring original Quo drummer John Coghlan, the EP featured Jason duetting with CJ of Britrock legends The Wildhearts. It entered the UK Physical Singles Chart at Number 2 in December 2016. His next release was the World Cup song *Charge Of The*



Dr Liam Herringshaw (BSc Hons Geology and Physical Geography 1998) is a Lecturer in Geology and Physical Geography at the University of Hull. This July, to mark 20 years since graduation, Liam met with Pete Robinson and the man, the legend, Professor Jim Marshall on the steps of the Herdman Building and reminisced about the marvellous times they had in Liverpool.

Light Brigade by The Tallywags featuring Sex Pistols', Paul Cook, which placed Number 8. Much more to come!

Matthew Slater (BEng Electronic and Communication Engineering 1997) joined the BBC as an Engineer. However, he was eager to travel the world and did so at several broadcast systems integrators, building television stations in Europe, the Middle East, South East Asia and even New Zealand. He has come full circle and has been back at the BBC for a few years, based in Salford working as a Project Manager. His current project is the technology fit out for all the television production systems in BBC Wales' brand-new building.

2000s

Dr Robin Kåss (MBChB 2003) started working as a family doctor in 2004. In October 2008 he was appointed Deputy Minister in the Norwegian Ministry of Petroleum and Energy, before being appointed Deputy Minister in the Norwegian Ministry of Health and Care



Services in 2010. In 2015 he was elected Mayor of the city of Porsgrunn.



Saxbourne Cheung (BA Hons Architecture 2004, BArch 2007) is an Associate Partner at Foster and Partners. He has been involved from the very beginning and formed part of the design team who delivered the new multi-award winning Bloomberg European headquarters, located in London. →

His role also included the integration of a new entrance to Bank Underground Station and the reconstructed Roman Temple of Mithras within the building. The building is an exemplar of sustainable development, achieving a BREEAM Outstanding rating, and was awarded the RIBA Stirling Prize 2018. At the televised award ceremony in London, the judges called the building a “once-in-a-generation project”, that has “not just raised the bar for office design and city planning but smashed the ceiling.”

Caroline Giddins (née Haniak) (BSc Hons Psychology 2008) has dedicated her career to improving the lives of young people. She has worked in the fields of substance misuse, child sexual exploitation and, more recently, at The Christie NHS Foundation Trust with young people who are living with a cancer diagnosis. Caroline’s work with the Christie led her to winning the HRH Integrated Approaches to Care Award in 2015 from the *Nursing Times*. Caroline has since specialised in the field of Cognitive Behavioural Therapy and she is an accredited therapist with the British Association for Behavioural and Cognitive Psychotherapies (BABCP).

Dr Richard Sanderson (BVSc 2009) is the owner of Sanderson Vet, a bespoke mobile veterinary service covering the North West and Heswall. It is a state-of-the-art clinic offering veterinary services. Richard is also the holder of a graduate diploma in Law and he offers expert witness work in the courtroom.

» 2010s

Elizabeth Williams (MPH 2010) is a Foreign Service Health Officer with the United States Agency for International Development. She works with host governments, usually in developing countries, to design, implement and sustain health policies and activities that

produce the best health outcomes for their populations. She ensures US taxpayer’s dollars are efficiently allocated to provide positive development impact and end the need for the existence of foreign aid.



John Ngosa (MSc Operations and Supply Chain Management 2012) continued working in Zambia for Medical Stores Ltd as

Director of Logistics after graduating. During that time he pursued an APICS certification as a Supply Chain Management Professional, a designation he gained in 2013, becoming the first American Production and Inventory Control Society, Certified Supply Chain Professional in Zambia. He is currently managing an Abt Associates/Unitaid funded project among nine countries in East and Southern Africa (of the 15 participating). The project aims to provide support to participating countries to access malaria vector control and elimination tools at relatively cheap prices and to work towards a competitive market for the tools. Through this project he has worked in a number of countries in Africa, Europe and the US and has just completed his second master’s degree.

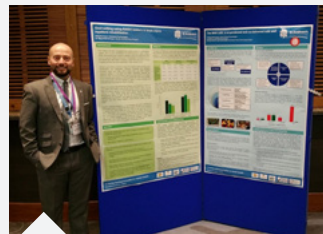


Frances Franc Adewumi (MPH 2013) worked as a medical officer in an adult HIV clinic in Nigeria for six months before moving on

to work as an LGA officer with an international organisation that supports polio eradication. She later took up a position as a DHIS2 officer in the same organisation with the core responsibilities of strengthening real-time reporting of routine immunisation data and its use for action. This experience has opened up her love for health data and she hopes to further broaden her experience in health data management.

Daniel Glover (LLB 2013) accepted Pupillage at Deans Court Chambers in Manchester. He is

now seven years into practice and focuses on commercial chancery, insurance and personal injury. Outside of his main practice, he is a Board Advisor to a sports body that acts for sporting professionals through his appointed role to Sports Resolution Pro-bono Panel.



Dr Miguel Montenegro (DCLINP 2013) has worked as a registered and chartered clinical psychologist in brain injury and neuropsychiatric services since graduation. He founded Dynamic Neuropsychology Ltd, which focuses on providing clinical psychology and neuropsychology services around Liverpool. In 2016 he was awarded the Aly Plummer Award at St Andrew’s Healthcare in Northampton for “excellent patient care.” He also received a RAID®



award from the Association for Psychological Therapies (APT) in 2015, 2016 and 2018 for his work with challenging behaviour. He is currently doing a post-doctoral degree in Clinical Neuropsychology at the University of Bristol.



Dr Isioma Okolo (DTM&H 2013) has become an obstetrician and gynaecologist and focuses on global women’s health. She has recently returned from Uganda where she taught teaching emergency obstetric skills with the Royal College of Obstetricians and Gynaecologists. Isioma was inspired by her time in Liverpool to keep learning and exploring her interest in global health and is hoping to complete a further postgraduate degree in public health or global health.

Danielle Jackson (BVSc 2014) completed a wildlife veterinary internship immediately after graduation which led to a permanent position. She then moved out to South Africa where she developed a huge passion for conservation. Following her exposure to the poaching crisis, she has been moved to set up the organisation Equine Anti-Poaching, which works under the umbrella of another South African, non-governmental organisation, the African Rhino Conservation Centre, a network created to coordinate the battle against the destruction of the Eastern Cape’s rhino population. Danielle recently saw the successful handover of their first unit after a 12-month pilot project. She is now back in the UK fundraising so they can set up more mounted units across South Africa.

Adam Masson (BSc Hons Microbiology 2014) started as a laboratory analyst in a quality control food testing lab after graduating. Four years on, he is now the Laboratory Manager. He said that he couldn’t have done it without the practical lab skills he gained at University!



Arshi Pathan (MBA 2014) works as Assistant Vice President at Sembcorp Marine Ltd in Singapore, a global leader in innovative offshore oil and gas projects and shipbuilding. His role involves global business development in offshore drilling and production sectors.

Zulqarnain Siddiq (MSc Information Systems Management 2014) is the founder and CEO of Airbook and XBS companies, as well as CEO of Oxygen Aerospace.

Alejandro Garcia Sosa (PhD 2015) received his PhD after completing his research as a Marie Curie Fellow at CERN, where he developed beam diagnostic devices for the HIE-ISOLDE project. His scientific career continued as a Postdoctoral Research Associate at Fermilab in Illinois, US where he developed and upgraded the Magnetron H-Ion Sources that provide beam to Fermilab’s accelerator complex. He currently works as an Ion Source Scientist/Engineer at the European Spallation Source in Lund, Sweden, where he is helping to build the world’s most powerful pulsed neutron source. Alejandro is a member of CERN Alumni and a former member of the QUASAR group.

Nittin Rogbeer (MBA 2015) is a University Lecturer and Course Coordinator teaching Film Production at the Rabindranath Tagore Institute. Having made most of his career in the film and advertising industry, formerly being employed as the Technical Executive for the Mauritius Film Development Corporation, he is now disseminating the knowledge acquired over decades to the new generation of stakeholders of the industry.

Mac Promise Kwami Amegashie (MSc Operations and Supply Chain Management 2016) is currently working for the United Nations as Regional Transport Officer

in Kirkuk-Iraq, one of the most dangerous places in the world. He is passionate about helping humanity. Due to security restrictions, he has found it difficult to achieve his objectives. However, he has been unofficially able to reach out to a few national colleagues on how important and delicate education is to the development of the future of the young, and its benefits. Gender equality is one of the critical issues he raises awareness about.

Stephen Kyalo Titus (MPH 2016) works for the International Committee of the Red Cross and is involved in health systems strengthening projects in middle- and low-income countries. His studies in International Public Health have come in handy and he is grateful he took the course. His journey in public health has so far taken him to South Sudan, Ethiopia, Israel and Palestine, and he will be heading to Papua New Guinea shortly.

Lisa Evans (LLB Hons 2017) was awarded a scholarship from the Honourable Society of Grays Inn to study the Bar Professional Training Course. She was called to the Bar in July 2018 and will be commencing pupillage in Manchester in 2019. ●

IN MEMORIAM

› **Dr Robert Alexander Agar**
(BSc Hons 1974, PhD 1978)

› **Glenn Allan**
(MSc 2014)

› **Robert Allen**
(BSc 1956)

› **Shelagh Grace Allen**
(BSc 1956)

› **Dr Paul Arrowsmith**
(MBChB 1957)

› **Jamal Fayez Awadeh**
(BEng 1982)

› **Anna Elizabeth Ball**
(BA 1994)

› **Professor David Ian Bateman**
(BA Hons 1956, MA 1958)

› **Christian Battelley**
(BA 1996)

› **John Bennent**
(BEd 1982)

› **Ernest Bethwaite**
(BEng Hons 1948)

› **Joan Bone (née Wilson)**
(BSc 1937)

› **David Thomas Emrys Bowen MRCVS**
(BVSc 1952)

› **Andrew Charles Lloyd Braithwaite**
(MA 1995)

› **Carmel Cornelia Brooks**
(BA 1995)

› **Kenneth Hedley Brown**
(BSc 1966, BSc Hons 1967)

› **Jane Patricia Carson (née Drake)**
(Cert in Education 1965, BSc 1965)

› **Reverend James Stuart Casson**
(BA Hons 1954)

› **Dr Pamela Anne Casson (née Deane)**
(MBChB 1955)

› **John Chambers**
(BCom 1960)

› **David Michael Charters**
(BA 1981)

› **June Clayton**
(MPhil 2000, MSc 2003)

› **William Varnam Coxon**
(BA 1973)

› **Brian John Craven**
(BSc 1968)

› **Dr Ann Christian Cross (née Young)**
(MBChB 1956)

› **Barrie Crossley**
(MED 1976)

› **Saikirthi Daswani**
(MBA 2018)

› **David John Dent**
(BA Hons 1969, MA 2011)

› **Paul Donleavy**
(BSc 1981)

› **Dr Keith Rodney Dumbell**
(MBChB 1944, MD 1950)

› **Catherine Earlam**
(Diploma 1989, PG Diploma 1992, MA 1994)

› **Dr Harold Garton Emlen**
(BSc Hons 1940)

› **Barbara Fargher MRCVS**
(BVSc 1973)

› **Clare Mary Gallagher**
(BA Hons 1953, MA 1963)

› **Karen Patricia Godfree (née Imms)**
(BA 1985)

› **Dr Raymond Leslie Goynes**
(MBChB 1957)

› **Arthur Graley**
(MPhil 2000)

› **Harold Anthony Green**
(BEd 1974)

› **Peter Lowden Griffiths**
(BCom 1953)

› **Professor Rodney Harris CBE**
(Diploma 1954, MD 1958)

› **Rachel Henney**
(MA 2004)

› **Carol Margaret Henrys**
(MA 1995)

› **Jonathan Marc Hill**
(BSc 1994)

› **Barry Hindess**
(MA 1967)

› **Christopher James Hole**
(BSc 1969)

› **Frank Holroyd**
(BEng Hons 1946, MEng 1950)

› **Anthony Hopper**
(CEPT 2018)

› **Sarah Louise Hornby**
(BSc 2005)

› **Georgina Anne Hyde**
(BA 2005)

› **Patricia Jackson**
(BA 1954)

› **Richard Victor Johnson**
(BArch 1950)

› **Michael Josypenko**
(BA Hons 1979)

› **Joan Kalinsky (née Corke)**
(BA 1946)

› **Joseph Wanley Kennedy**
(BSc Hons 1949)

› **Victoria Louise Kerly**
(LLB 2000)

› **Dr John Costain Knight**
(BSc Hons 1957, PhD 1960)

› **Kelvin Layer**
(BSc 1975)

› **Peter John Lewis**
(BDS 1968)

› **Gordon Christison Lindsay**
(LLB Hons 1954)

› **David William Longman**
(PG Cert 2004)

› **James Hugh Mackay**
(BA 2004)

› **Kenneth John Marsh**
(BSc 1969)

› **Eileen M Marsh (née Cawte)**
(BA Hons 1947)

› **Dr Esmond Bradley Martin FRGS**
(PhD 1971)

› **Fred Mawdsley**
(BEng 1959)

› **Norman McConnell**
(BSc Hons 1951)

› **Dr Joseph Kevin McNamara**
(PhD 2007)

› **Dr Donald Norwood Menzies**
(MBChB 1948)

› **Peter Myles Moran**
(LLB Hons 1957)

› **Philip Eden William Morris**
(BA 1960)

› **Helen Mary Mullany**
(BEd 1981)

› **Michael Murphy**
(BA Hons 1990)

› **Dr Joyce Marjorie Nelson (née Towers)**
(MBChB 1959)

› **Raymond Newcomb MRCVS**
(BVSc 1962)

› **Dr Harry Charles Newns**
(BSc Hons 1949, PhD 1953)

› **Barry Anthony Newsam**
(BSc Hons 1959)

› **Geoffrey Norris**
(LLB 1957)

› **Professor Paul O'Brien CBE**
(BSc Hons 1975, Hon DSc 2013)

› **Martin Stuart Page**
(BSc Hons 1987)

› **Dr Ednyfed Wyn Parry**
(MBChB 1962, PhD 1967)

› **Professor Geoffrey Eric Petts**
(BSc Hons 1974)

› **Alice Elizabeth Pinchard (née Cook)**
(BA 1988)

› **Alfred Hugh Pinnington**
(BSc Hons 1941)

› **Patricia Platt**
(BA Hons 1989)

› **Olga Poel (née Lazarus)**
(BSc Hons 1942)

› **James Rand**
(BA 1972)

› **Dr Henry Francis Valentine Riddle**
(BSc 1952, PhD 1958, MBChB 1959, MD 1970)

› **Megan Audrey Roberts**
(Diploma 1972, MEd 1975)

› **Peter Robinson MRCVS**
(BVSc 1944)

› **Michael Robson**
(BEng 1967)

› **Gerard Michael Paul Rooney**
(LLB 1976)

› **Francis Rossiter**
(BEng 1947)

› **Dr Peter John Rowe**
(PhD 1988)

› **Dr Neil John Russell**
(MBChB 1982)

› **Professor Kenneth Richard Seddon**
(BSc Hons 1970, PhD 1973)

› **Kenneth Arthur Shone**
(BEng 1942)

› **Carmel Rose Anne Short**
(BEd Hons 1984)

› **Robert James Paul Sinnott**
(BSc 1995)

› **Joyce Isabel Skerrett (née Plaister)**
(BSc 1942)

› **Peggy Dorette Jardine Sloan**
(BCom 1948)

› **Dr Vanessa Anne Sluming (née Longridge)**
(MSc 1992, PhD 2002)

› **Raymond Anthony Southern**
(BA 2001, MPhil 2005)

› **Sharon Ann Stevens**
(MEng 1991)

› **Valerie Ann Strauss**
(BA 1996)

› **Adarsh Subramonian**
(MSc 2017)

› **William Bernard Supple**
(BA Hons 1957)

› **Anne Josephine Synnott**
(Diploma 1989)

› **Dr Derek William Tavernor FRCVS**
(BVSc 1954, PhD 1969)

› **Gerald Edward Taylor**
(BEng 1953)

› **Jeremy George Taylor**
(BSc 1969)

› **Lynda Barbara Thorn**
(BA 1972)

› **William Nicholas Timmis**
(BSc 1962)

› **James Frank Varey**
(BA Hons 1948)

› **Geoffrey Ewart Walker**
(BA Hons 1958)

› **Hubert Eaton Walker**
(BEng Hons 1949, MEng 1951)

› **Barbara Eileen Wallington (née Moulton)**
(BSc 1964)

› **John Charles Walsham**
(MED 1976)

› **Kristina Walters**
(BA 1981)

› **Phillip Kenwyn Wearne**
(BA 1979)

› **Professor Sir David John Weatherall**
(MBChB Hons 1956, MD 1962, Hon LLD 1992)

› **Professor John Charles Webster**
(MCivic Design 1971)

› **David John Williams**
(MPA 1997)

› **Martin Williams**
(BSc 1970)

› **Dr Deborah Cosette Wilson**
(MBChB 1976)

› **Bernard Bucknall Wright Esq**
(LLB Hons 1954)

› **Dr Reginald Angelo Yorke**
(MBChB 1954)

Staff, students, Friends of the University of Liverpool and Honorary Graduates

Dr Brain Aldiss OBE
(Hon LittD 2008)

Sir Roger Gilbert Bannister CH
(Hon LLD 1972)

Emeritus Professor Roy Chester, former member of staff

Peter Harry Gayward OBE, former member of staff

Emeritus Professor Leslie L Green, former member of staff

Dr Barry King, Reader in the Physics Department

William (Bill) John Slater CBE, Director of Physical Education at the University 1968–70 and member of the University's Sports Hall of Fame

Sir David Cecil Smith
(Hon DSc 1986)

James R E Wishart, former member of staff

TURN SOUTH AT THE POLE

1969 MIGHT BEST BE REMEMBERED FOR THE PIONEERING 11-DAY ROUND TRIP WHICH SAW NEIL ARMSTRONG AND BUZZ ALDRIN SET FOOT ON THE MOON. BUT SEVEN WEEKS BEFORE THAT MOMENTOUS LUNAR ACHIEVEMENT, ANOTHER LANDFALL HAD BEEN MADE BY TWO MEN ON EARTH. DR KEN HEDGES (MBChB 1962), A MEDICAL GRADUATE FROM THE UNIVERSITY OF LIVERPOOL, WAS ONE OF THEM. THIS IS HIS STORY OF THE FIRST EVER SURFACE TRANSIT OF THE ARCTIC OCEAN



There is within us an innate faculty that seeks the meaning of life. This is the human spirit, a vessel of discovery for an accountable purpose to each precious lifespan and how we should live it

and ventured upon the obliterating turmoil of pack ice with its ominously silent and suddenly gaping maw of open water fissures, or the growl of churning pressure ridges advancing like towering walls of lava.

On 29 May 1969, two men arrived at the foot of the towering cliffs on a small offshore island called Vesle Tavloya in the remote Norwegian archipelago of Svalbard. They'd balanced agility against vulnerability in getting there, roped together while delicately negotiating an unstable kilometre-wide maelstrom of breaking ice, forged by its own momentum and impacted by wind, prevailing currents and a powerful spring tide. No sooner had they landed than the tide turned and the ice surged. Unable to retrace their steps, they leapt between uncertain footholds to reach the familiar safety of their two companions and dog teams now drifting out to sea on an ice floe.

Thus was marked the distinctly unceremonial albeit successful completion of the first ever surface transit of the Arctic Ocean. The four-man party was made up of Wally Herbert, Fritz Koerner, Allan Gill and me. Together we'd covered some 6,000 kilometres, navigating a labyrinth carved through moving sea ice. For 476 days we lived

Always we were alert to the stealthy approach of polar bears. For a full five months we were under perpetual polar darkness, testing our mettle against the unpredictable consequences of prolonged social isolation.

Homecoming

After our return, a celebratory lunch was held at the Athenaeum Club in London. As conversation drifted to the far end of the table, Lord John Hunt, the leader of the first ascent of Everest, quietly engaged me in conversation. Here was a recognition between a Peer of the Realm who had led the first expedition to reach the highest point on Earth above mean sea level, and a younger man who, just months earlier, had passed through the lowest point, the geographical North Pole, the point on the Earth's surface which by virtue of its shape as an oblate spheroid, is closest to its centre. It was those extremes of geophysical elevation, whose vast and hitherto unyielding domains of wilderness set beyond the evocative boundaries of human habitation were inaccessible, primal, dangerous, and yet awe-inspiring, which →

has attracted our respective interests as explorers.

A long journey into such an environment not only probes into the unknown; it becomes an exercise in social deprivation. On the Arctic Ocean there are no families, no institutions, no media, no weekends and, incredibly, few laws bar the fragile jurisdiction of your own moral code. You subconsciously entrust your sanity to your own capacity for self-composure under duress. If there was common ground to report, it was the capacity of the human spirit characterised by the courage to hold fast in the presence of uncertainty and the good, old-fashioned sense to share the load.

The world with its shifting horizons invites attention to



"If there was common ground to report, it was the capacity of the human spirit characterised by the courage to hold fast in the presence of uncertainty"

prospects which may lie dormant within each generation. Yet it is not just our circumstances but also the mindset of the moment which serves to move us. Like the first mountaineers to summit Everest, we had left footsteps in the snow where none had gone before, but our tracks soon thawed, recycled in the economy of nature to leave no attestation of our passing.

A farewell from whales

In the 12 days following the precarious landing by Gill and me, our reunited four-man crossing party struggled to close the distance with the Royal Navy's ice-patrol vessel HMS *Endurance*. Helicopters from the vessel were dispatched to extricate us, our dogs and our equipment.

In the unrehearsed moments as we waited for the helicopters, something stirred in the isotherms of an unseen world beneath the ice. Resting my head on the sheepskin which had served as a mattress for the last 476 days, I became aware of an almost imperceptibly melodic whistling conducted through the ice. The immense silence of the Arctic was transmuted into the pristine farewell song of a whale pod. It was as if they were confirming that we were not there by accident, any more than our own lives and how we live are destined to be bereft of significance. ●

Do you have a story to share?
Email us at: alumni@liverpool.ac.uk and we could feature you in a future edition of *Alumni*.



She's Eclectic: Women Artists of the VG&M Collection

January–April: An exhibition showcasing the breadth and diversity of the Victoria Gallery's collection of paintings, prints and sculptures by women artists.



Eleanor Rathbone: An Independent Woman

Until April: An exhibition to celebrate the Liverpool suffragist, MP and social reformer, featuring materials from her personal archive.



Open House

13-18 May: A festival of talks, performances, exhibitions and interactive experiences showcasing great ideas, knowledge and culture at the University of Liverpool.



Science in the Snug and City lectures

February–November: Join us for a series of informative, entertaining lectures in both Liverpool and London on popular science topics.



Football reunion event

22–23 March: A weekend of events to celebrate the 40th anniversary of the University's football team winning the Universities Athletic Union cup in 1979.

EVENTS CALENDAR

HERE ARE JUST A FEW OF THIS YEAR'S EVENTS. FULL LISTINGS AT:
WWW.LIVERPOOL.AC.UK/ALUMNI/EVENTS



Fred Freeman Lecture on Philanthropy

21 May: Academic colleagues Dr Beth Breeze and Professor Hugh Cunningham from the University of Kent discuss the reputation of philanthropy, past and present.



Oceanography centenary event

19 October: Special reunion event including tours, drinks reception and dinner, to celebrate 100 years of Oceanography teaching at Liverpool.

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