



# Welcome from the Acting Vice-Chancellor

It is my pleasure to introduce this year's Annual Report in my role as Acting Vice-Chancellor.

This year has seen significant progress towards our strategic objectives, against a changing environment both for our community here in Bath and for the Higher Education sector as a whole.

Delivering quality education and excellent student experience remains at the core of what we do. Ranked 4th in the *Times Higher Education* Student Experience Survey 2018, our students continue to be among the most satisfied in the UK. However, we are certainly not complacent and further enhancement of our student experience continues to be a priority.

Building on our teaching strengths, as demonstrated by our Teaching Excellence Framework Gold rating, we have started a process of curriculum transformation to ensure our courses continue to be at the forefront of quality learning and teaching, and our strong reputation for graduate prospects is maintained.

Our research and innovation continues to address some of the biggest challenges locally, nationally and globally. The value of our research portfolio exceeded £150 million last year and we welcomed new early-career researchers via our third round of prize fellow recruitment. Our strong research profile has facilitated two major projects which are now beginning to take shape.

Announced by the Prime Minister in January 2018, the Institute of Coding is a £40 million nationwide initiative led by the University of Bath. The Institute will help to address the UK's digital skills shortage and aims to attract more people from underrepresented groups into the digital economy.

Another significant development located at the Bristol and Bath Science Park, which we recently purchased with South Gloucestershire Council, the Institute for Advanced Automotive Propulsion Systems will not only generate economic growth but will have real environmental impact by supporting global automotive industries to innovate and develop future generations of ultra-low and zero emission vehicles.

The Science Park will provide some of the infrastructure for our future education and research activities but we have also invested heavily in our Claverton campus. Work has taken place during 2017/18 on a new building for the Milner Centre for Evolution, the extension of our Sports Training Village gym and new accommodation for postgraduate students. Planning permission has also been granted for a £70 million landmark building which will enable our School of Management to further strengthen its position in the UK and support its aim of becoming a top 50 global business school.

Our plans to increase our graduate provision are progressing and we have attracted more postgraduate taught and research students as well as developing and expanding our course offer. Our Doctoral College, launched in 2017, is now well established and provides a focal point for the doctoral community as well as support and advice for early careers researchers.

Professor Jeremy Bradshaw, who joined us last year as Pro-Vice-Chancellor (International & Doctoral), is already helping to strengthen our international profile and enhance our reputation for excellent doctoral provision.

Locally, our relationships with Bath and the wider region are more vital than ever. In addition to practical initiatives through the Student Community Partnership such as the Good Neighbour and Pack for Good campaigns, we have been collaborating with local community groups to research some of the key challenges they face.

A supportive and inclusive learning environment is critical for success. To this end, we have been working in partnership with our Students' Union (SU) and have launched the #NeverOK campaign, an initiative which underlines our commitment to ensuring students and staff can study and work in a community that does not tolerate sexual harassment, assault or violence.

Over the year, there has been both continuity and change in our community.

We are delighted that His Royal Highness The Earl of Wessex has been reappointed as our Chancellor until July 2023 and will continue his vital role as an ambassador for the University.

Earlier this year, we embarked upon a wide-ranging and consultative process for recruiting our next Vice-Chancellor and have recently announced the appointment of Professor Ian White who will join us from the University of Cambridge.

I look forward to welcoming Professor White to the University in April 2019 and to working collaboratively to achieve even more as a community.



Professor Bernie Morley  
Deputy Vice-Chancellor and Provost  
And Acting Vice-Chancellor



*Top right: Acting Vice-Chancellor Professor Bernie Morley*

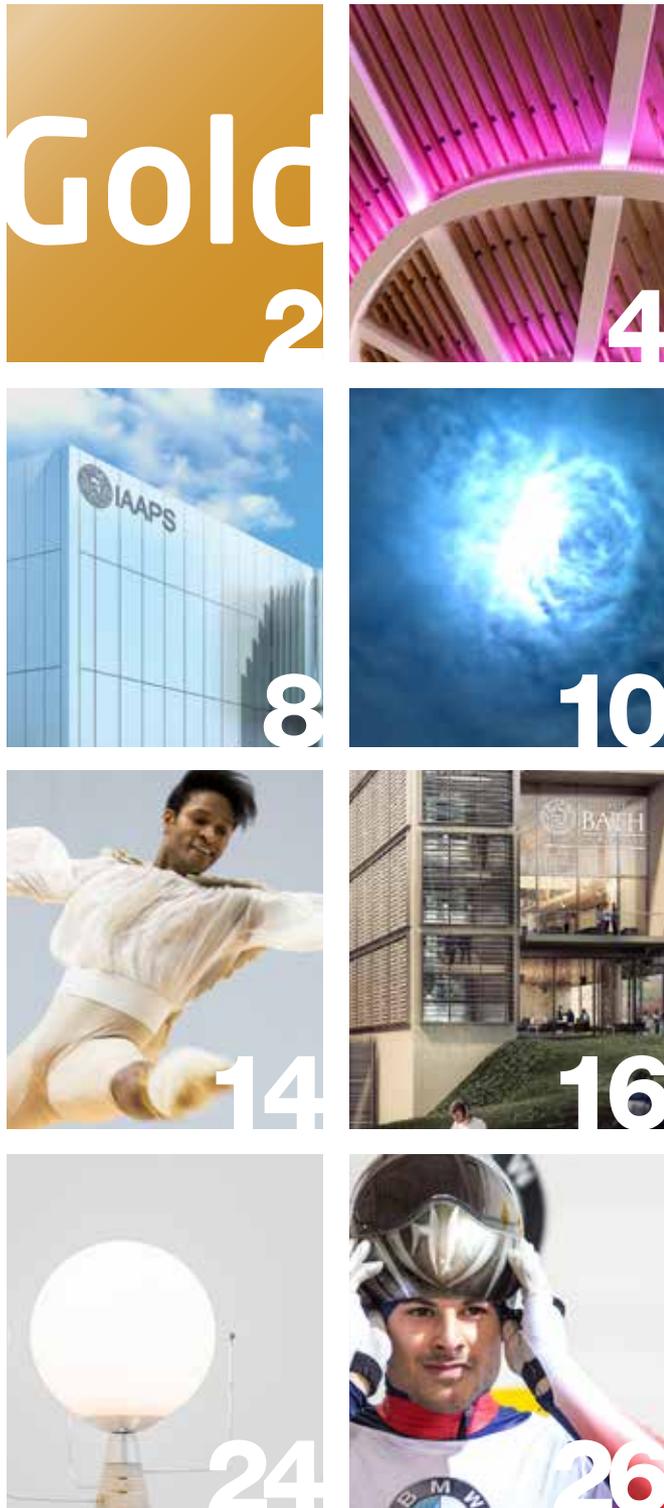
*Bottom right: A Doctoral College welcome reception*

*Bottom left: Students and representatives from the Good Neighbour campaign*

*Middle left: An artist's impression of the new IAAPS building*

*Top left: The Milner Centre for Evolution*





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Cover image © University of Bath.  
The lake and fountain at our Claverton Down campus.

# Key facts and figures

The University was established by Royal Charter in 1966. Our charitable objects are to “advance learning and knowledge by teaching and research, particularly in science and technology, and in close association with industry and commerce”.

## Our community

In 2017/18, we had 17,646 students, with over 30 per cent from outside the UK, representing more than 130 nationalities. We have over 120,000 alumni living and working in 173 countries around the world. We employ around 3,500 people and are the second largest employer in the local authority area.

## Research

Our current research grant and contract portfolio is worth around £150 million, with £47 million of new funding awarded during 2017/18. The value of our research grant and contract portfolio has increased by over 50 per cent in the last five years.

In 2017, 33 per cent of our publications were in high impact journals.

In the last Research Excellence Framework (REF), 87 per cent of our research was defined as world-leading or internationally excellent.

## Placements and employment

89 per cent of our employed UK full-time first-degree graduates are in the top three occupational groups, compared to 74 per cent of employed graduates nationally (DHLE Survey, 2017).

The mean salary for our graduates is £27,000. That's £4,500 higher than the equivalent for all UK HE providers\*.

Up to 400 employers visit the University each year as part of events organised by our Careers Service.

Approximately 65 per cent of our undergraduates who completed their course in the 2017/18 academic year chose a placement or study year abroad.

## Gifts and scholarships

Over 500 students currently hold a scholarship as a result of gifts to the University.

This year saw the Look Further fundraising campaign reach £67 million in donations from the University of Bath's community of alumni and friends. The campaign was launched ahead of the University's 50th anniversary, with a target of £66 million. It was part of the celebration of everything our University has achieved since 1966 and a bold statement of ambition for our future.



Top: Jay Zhou, an MEng (Hons) Chemical Engineering student on placement with Wessex Water

Middle: Our Claverton Down campus

Bottom: Some of our students celebrating success

\*Source: HESA Destinations of Leavers from Higher Education survey (2016/17). This includes first degree graduates leaving in summer 2017, with a survey census date of 10 January 2018, roughly six months following graduation. Salary information provided by UK domiciled full-time first degree graduates who left Bath in summer 2017, and were in full-time paid work in the UK on the census date. Salaries rounded to nearest £500.



## Key statistics

- **Awarded Gold** status in the Government's Teaching Excellence Framework (TEF)
- **86.04 per cent** for overall student satisfaction in the *National Student Survey 2018*
- **Ranked 6th overall** by *The Guardian University Guide 2019*
- **Ranked 5th for graduate prospects** by *The Times and The Sunday Times Good University Guide 2019*
- **Ranked 4th** in the *Times Higher Education Student Experience Survey 2018*

## Rankings

Guide	Year	Ranking	Institutions ranked	Location
The Times & The Sunday Times Good University Guide	2019	13	132	National
The Guardian University Guide	2019	6	121	National
The Complete University Guide	2019	11	131	National
Whatuni Student Choice Awards	2018	26	126	National
QS World University Rankings	2019	158	1,000	International
Times Higher Education World University Rankings	2019	201-250	1,259	International





# Capacity and capability

This year we have continued to invest in our campus-wide infrastructure. Our aim is to ensure the University supports economic development, develops much needed skills and provides a cultural and sporting contribution which benefits the City, region and the country.

## Three new developments

Three new developments across campus will soon be opened, providing a unique research centre, modern postgraduate student accommodation and expanding and enhancing our Sports Training Village gym.

### Milner Centre for Evolution

The Milner Centre for Evolution brings together our expertise in evolution research in this state-of-the-art facility. The building, on the south side of the campus, includes offices, laboratories, a purpose built seminar room and an area for outreach activities. Part of our Department of Biology & Biochemistry, the Centre is named after Bath alumnus, Dr Jonathan Milner, who donated £5.6 million towards its establishment. Construction started in 2017 in order for the building to be ready for opening in September 2018.

### Polden

Polden is our newest accommodation block, offering self-catered accommodation for 293 postgraduates, across 37 flats in two buildings, around a landscaped courtyard.

Providing high quality on-campus accommodation is an important element of our aim to be an international leader in graduate education. The building design was based on feedback from postgraduates. Desks are positioned for maximum natural light and ventilation, there is extra shelving for books, storage for luggage, and a neutral colour scheme allowing students to personalise their room.

Polden is on the west side of our Claverton Campus, a short walk to the library and Students' Union. This development follows on from the 2015 opening of The Quads, a £43 million, 708-bedroom student complex on the east of campus.

### Gym expansion

A gym extension will provide an extra 940m<sup>2</sup> space to the Sports Training Village, with room for more than 200 users.

Due to open in winter 2018/19 the extension includes high quality equipment, a group exercise studio and an indoor cycling studio, allowing the Sports Training Village to offer more to its users.

## A landmark School of Management building

The University is investing £70 million in a landmark building to enable the School to move to the next stage in the development of its teaching, research and student experience; strengthening its position among UK business schools and supporting its aim of becoming a top 50 global business school.

The project is expected to create over 100 new jobs and is predicted to add over £240 million of value to the Bath & North East Somerset economy over 25 years.

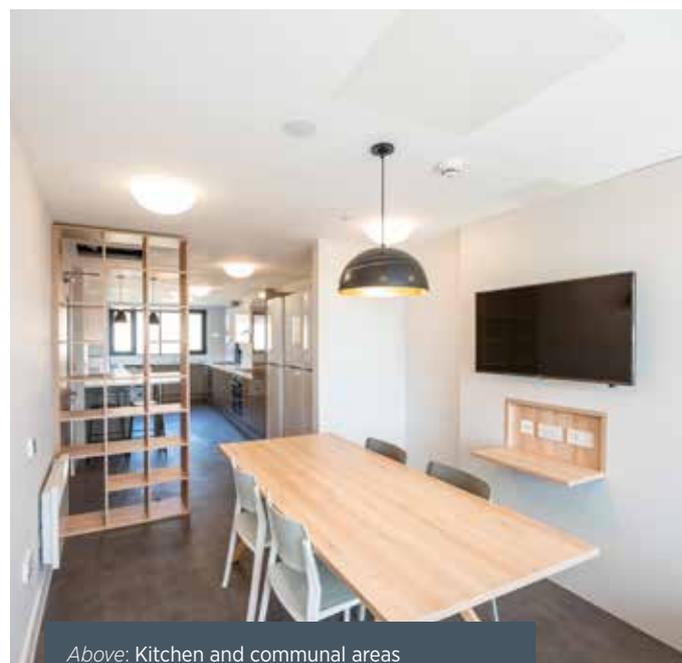
Opening during the 2020/2021 academic year and designed in an open layout to foster joint working, key features include a Student Entrepreneurship Lab, a Behavioural Research Lab and state-of-the-art teaching spaces.

## New campus Masterplan

The process to create a new Masterplan for the Claverton Campus is underway, with two public consultation events held so far.

The current Masterplan is being updated to take into account future provision of academic, research and sports facilities, support services, student accommodation, parking and green infrastructure.

Working in collaboration with the council, stakeholders and the wider community, the Masterplan will contribute to the development of the Bath and North East Somerset Local Plan.



Above: Kitchen and communal areas in the new Polden block

# Learning and teaching

We're proud of our excellent reputation for learning and teaching, and the high level of academic achievement, intellectual curiosity and skills in our University community. Our research-informed, practice-based education continues to equip our students with the awareness and skills to thrive, empowering them to make positive contributions to an increasingly globalised world.

## Curriculum transformation

This year we embarked on an ambitious programme to transform all undergraduate and postgraduate courses over the next few years to ensure continued educational excellence and a position at the forefront of the sector. Colleagues across the University are working together to develop creative approaches to assessment, teaching and course delivery, with students involved throughout to embed student partnership and co-creation at the heart of the Bath experience. This is an opportunity to create an inclusive academic experience, one addressing key issues of developing professional, research, and academic skills whilst celebrating the diversity of experience of our students and staff.

## Education events

This year saw Bath's first EduFest: a one-day celebration of learning and teaching at Bath and across the sector, and an opportunity to share knowledge, research and creativity in learning and teaching. Staff and students attended a programme including talks from sector-leading experts, insight and discussion from colleagues at other institutions and examples of how cutting-edge research at Bath can make university courses everywhere more inclusive and engaging.

Learning and teaching was also celebrated at our 2018 University Education Awards evening. With awards ranging from leadership and innovation, to research-engaged teaching and pastoral support, the event recognises and rewards the outstanding contributions that students and staff make towards Bath's educational community.

## First cohort of Gold Scholars

The Gold Scholarship Programme successfully launched in September 2017 with a cohort of 50 scholars. Scholars are carefully selected to meet widening participation criteria aligned with the University's Access and Participation Plan. They receive a £5,000 bursary each year and participate in an enrichment programme enhancing their university experience and future employability.

The scholars were fully committed to the programme, with an attendance rate of 95 per cent across eight core training events during the year, including networking events with alumni mentors and donors and a teambuilding day in London. During the year the scholars recorded 3,286 hours of volunteering, fundraising or outreach, significantly exceeding their required hours.

## Doctoral College

The Doctoral College supports the University's ambition to be an international leader in graduate education. Informed by feedback from staff and students, it supports doctoral researchers, enriches their experience and plays a key role in developing policy and strategy relevant to doctoral study.

Our research community is diverse: about a third of students are part time, some combine research and work, and many are based in professional organisations. The College provides every doctoral student a single point of access to professional support services, ensuring an outstanding start to their research careers whichever discipline they choose, wherever they are based.

Since its launch in August 2017, Doctoral College activities have included increasing guidance and support for supervisors, improving student induction, working with Student Services to increase mental health support, developing guidance for students who teach, and introducing events to encourage networking between researchers, on and off campus.

## Widening Participation

Last year over 15,000 young people attended our sustained widening participation outreach programmes and workshops. Building on the On Track to Bath programme for local sixth form students we have developed resources supporting teachers and students doing research projects in advance of starting degrees.

A MOOC (Massive Online Open Course) for those taking the Extended Project Qualification attracted 18,000 learners over the last year, and a new course developed alongside Aberystwyth University for students undertaking the Welsh Baccalaureate is the first ever joint Welsh and English language MOOC.

We have also developed a residential course for teachers overseeing projects, and introduced the Inspirational Project Teacher Awards, which had four winners this year. The residential summer school programmes have expanded, and distance versions of the existing programmes are being piloted, with help from staff across the University.

This fits with Office for Students priorities to raise applicant attainment and increase the success of under-represented students applying to Bath.

Daniel Fosas De Pando, PhD Research Programme in Architecture, with model showing sunlight angles at different times of day and seasons.



# Cross-disciplinary research

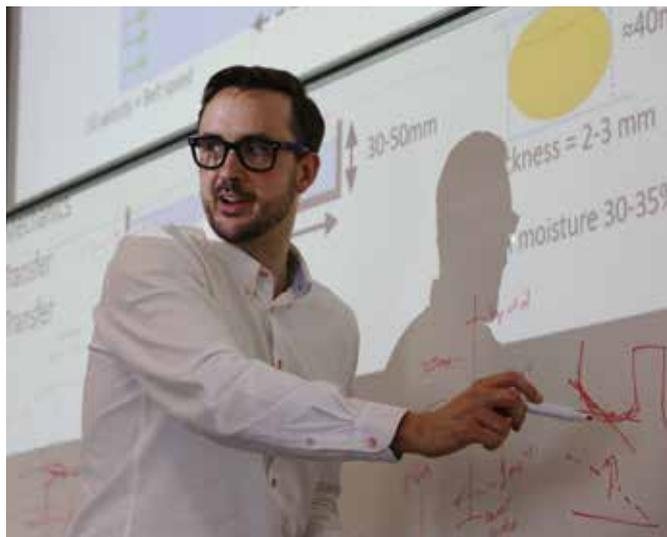
Our campus was designed to enable researchers from different disciplines to collaborate and exchange ideas. That ethos continues today, with our innovative and talented academics producing world-leading research that is often not confined to one Department, or even Faculty. The University's research Institutes act as focal points where researchers can come together and combine their expertise to help solve real world problems.

## Institute for Mathematical Innovation (IMI)

IMI hosted the UK's annual European Study Group with Industry, which brought together mathematicians from around the world to solve problems presented by Airbus, CrowdVision, Heathrow Airport, NHS, PepsiCo, Phytoponics, and Syngenta. The study group produced valuable insights and laid the foundations for further industry collaborations.

The Institute was praised for its work to improve university and industry collaboration in a national review of knowledge exchange in the mathematical sciences led by Professor Philip Bond. The review commended the role IMI plays linking academic research with external partners, adding social impact and economic value.

IMI also hosted a series of nine lectures and a public debate on machine learning which raised awareness of, and generated important discussion on, how this rapidly growing technology will influence individual behaviour and shape society in the future.



## Institute for Policy Research (IPR)

In March, Economic and Social Research Council funding was awarded for a three-year project investigating the impact of the Universal Credit system on couples with children. Funding was also secured for IPR research into Universal Basic Income. IPR staff have published books and articles on a wide range of public policy issues.

In addition the IPR has led on developing relationships between University of Bath academics and policymakers across Whitehall and the South West. Twelve Policy Fellows took part in IPR's Policy Fellowship Programme, achieving policy impact through the direct use of Bath academic research by government.

In September, the Department of Social & Policy Sciences and IPR launched an MSc in Public Policy. This part-time two-year course offers students the opportunity to understand how public policy is made, what shapes it, and how to make a real difference as policymakers.

IPR also delivered a comprehensive and highly engaging programme of public events held in Bath and London with approximately 3,500 attendees.



Top: Stacie Tibos, Associate Principal Engineer from PepsiCo, was one of the attendees at the European Study Group with Industry

Bottom: The IPR team researching Universal Credit: from left-right Professor Jane Millar, Fran Bennett, Rita Griffiths and Marsha Wood

## IAAPS gains momentum

Plans for the Institute for Advanced Automotive Propulsion Systems (IAAPS) are progressing quickly with a series of appointments.

In December the University announced the design team. Stride Treglown is lead consultant, designing the building envelope, office spaces and wider development, partnered by Bath-based specialists DKA who will design the complex testing facilities.

Heading up the delivery of IAAPS is Gavin Edwards, who was appointed Programme Director in January. Previously at WMG, Gavin is experienced in delivering programmes and facilities to harness collaboration between universities and industry.

Gavin will oversee completion of the building, equipment and facilities, and is responsible for developing commercial partnerships to harness the expertise and capabilities of IAAPS, enabling collaborative work on transformational research.

IAAPS builds on 40 years of propulsion system expertise at Bath, providing new capabilities and capacity to lead the way in developing ultra-low and zero emission vehicles.

IAAPS will be based at Bristol and Bath Science Park, opening in 2020.

***“IAAPS will be both a national and regional asset, helping to ensure the UK maintains and expands its global position within the automotive sector whilst supporting the development of a much larger and more competitive automotive business cluster in the South West.”***

Gavin Edwards, IAAPS Programme Director



*Above: IAAPS will be research led and industry focused and will operate on a global scale to accelerate the pace on transformational research and innovation*

Artist's impression: Stride Treglown

# Engineering and Design

Our Faculty of Engineering & Design continues to conduct world-leading, impactful research with industry partners whilst providing its students with wide ranging opportunities including industry placements and team competitions as part of their degree programmes.

## Innovative camera technology launched into space to unravel the mysteries of lightning

In April, Dr Martin Fullekrug from the Department of Electronic & Electrical Engineering saw over 15 years of work realised when a scientific experiment his research has contributed towards was sent into space for the first time.

The Atmosphere-Space Interactions Monitor (ASIM) is a state-of-the-art unique collection of optical cameras, fast light meters and X- and Gamma-ray detectors, which for the first time, has allowed researchers to observe lightning in the Earth's atmosphere with unprecedented detail from space.

ASIM will continue to observe and record the inner anatomy of lightning processes to improve an understanding of the impact of lightning on the atmosphere and infrastructure and it will contribute to more accurate climate models.



*Left:* Lightning illuminates the area it strikes on Earth but the flash can be seen from space

## New nanoporous metal foam uses sunlight to clean up water

Professor Davide Mattia from the Department of Chemical Engineering was awarded a five-year EPSRC Established Career Fellowship in Water Engineering, to lead the way in creating a new, more efficient way for the water industry to safely remove micropollutants from water without increasing their carbon footprint.

This will involve the development of novel photocatalytic nanoporous anodic metal foam – a sponge-like substance – which will use sunlight to safely remove micropollutants from water.

Currently, photocatalysis - where light is used to speed up a reaction which breaks down organic pollutants to non-harmful constituents - is considered the most promising technology to address this problem. However, this approach poses the risk of nanoparticles leaking from the water treatment plant and accumulating in the environment, with potentially adverse effects.

Over the next five years Professor Mattia's team will develop technology that entirely forgoes the use of nanoparticles and replaces them with a highly porous photocatalytic foam, creating an efficient method of capturing all the micropollutants whilst preventing nanoparticulate material leaching into the environment.

## Team Bath Racing Electric record highest ever ranking

In July, the University's student electric racing car team, Team Bath Racing Electric (TBRe), achieved their best ever ranking at Formula Student UK.

TBRe returned from competing at Silverstone having ranked in the top 20 for the first time and retained their title as top UK electric team for a consecutive year.

Finishing 17th out of the 129 combustion and electric teams from over 30 countries who competed at Silverstone, is a significant improvement having ranked 39th in the same competition last year.

## Newcomer's success for Team Bath Drones Marine

In their maiden outing at the European Robotics League Emergency Robotics Challenge, Team Bath Drones Marine (TBDM) were awarded the "Best Rookie" prize.

TBDM is the University's newest student competition team made up of students from the Departments of Mechanical and Electronic & Electrical Engineering.

The Bath students were the sole UK representatives and competed against a number of other international teams from France, Germany, Italy, Spain, and Poland.

In their first year of competing, TBDM didn't manage to place but received the "Best Rookie" award for the best new team, with a prize of two free student entries to the International Interdisciplinary Field Workshop for Marine Robotics and Applications in Croatia, 2018.

## Martins Zalmans named winner of prestigious engineering award

In December 2017, MEng Mechanical Engineering student Martins Zalmans was named winner of the 2017 Autosport Williams Engineer of the Future Award.

This accolade is an exciting annual award recognising a rising star of Formula One engineering which supports them through an accelerated career development programme at Williams.

Martins has joined Williams on an initial two-year placement and is being mentored by senior engineers before specialising. During the placement, Martins will also get the unique opportunity to work in the team's race operations division and gain experience at a Grand Prix.

# Science

A way to measure blood glucose without a blood sample, better techniques to create more realistic motion capture animations and a simple test to protect people from a crippling bone disease are just some of the exciting work University of Bath scientists are spearheading.

## Bloodless revolution in diabetes monitoring

Bath scientists created a non-invasive adhesive patch, which measures glucose levels through the skin without a finger-prick blood test, potentially removing the need for millions of diabetics to conduct the unpopular tests.

The patch draws glucose out from hair follicles, which are individually accessed via an array of miniature sensors. The glucose is collected in tiny reservoirs.

Readings can be taken every 10 to 15 minutes over several hours and the design of the sensors and reservoirs means the patch doesn't require blood sample calibration.

The research team from the Departments of Physics, Pharmacy & Pharmacology and Chemistry, hopes it will become a low-cost, wearable sensor wirelessly sending glucose measurements to the wearer's phone or smartwatch.

## Motion capture of dogs with Bath Cats and Dogs Home

Researchers are creating a library of movements from different dog breeds to make animations in films and video games more realistic.

Films use motion capture extensively to transform human actors into apes, however this doesn't work well for four-legged animals.

Scientists from the Centre for Analysis of Motion, Entertainment Research & Applications (CAMERA) are developing a technique to use the movements of human actors to drive four-legged animal characters, making them more realistic.

The team invited dogs from Bath Cats and Dogs Home to their studio to collect motion capture data.

They wore coats with reflective markers, which are sensed by cameras around the studio when hit with infrared light. The cameras record the 3D position of the marker and reconstruct the movement of the dogs digitally.

## Evolution acceptance in children linked to aptitude, not belief

Acceptance of evolution in UK schoolchildren is linked to their scientific aptitude rather than belief systems, according to research from the Milner Centre for Evolution.

Previous studies in the USA showed adults who strongly reject evolution are often highly educated, spurning the scientific consensus due to belief system conflicts.

But for UK schoolchildren, this isn't the case. A controlled trial involved 1,200 students aged 14-16 in 70 classes across the south and south west, in which students were tested for acceptance and understanding of evolution and, as a control subject, genetics.

They found rejecters of evolution tended to be in foundation science classes where students' understanding of science generally was weak, concluding that the current system of science teaching was not optimal for lower aptitude students.



Above: Dogs from Bath Cats and Dogs Home got the Hollywood treatment when they visited CAMERA



### Simple water test could prevent crippling bone disease

A colour-changing test to detect fluoride in drinking water, devised by researchers at the Centre for Sustainable Chemical Technologies (CSCT), and the Water Innovation and Research Centre (WIRC) could prevent crippling bone disease.

Whilst small amounts of fluoride are beneficial, high levels cause skeletal fluorosis. This disease inflicts crippling deformities of the spine and joints, especially in children.

Elevated levels of fluoride in drinking water sources are present in parts of East Africa, India, China and North America and where there is no piped water system or treatment works, people rely on drawing untreated water from wells.

The researchers' simple test quickly detects fluoride, changing from purple to blue when levels are too high,

The team aims to develop it into a disposable test strip that is low-cost and easy to use.

# Humanities and Social Sciences

Making sense of our rapidly-changing world has never been more important. Whether through international engagement and outreach, or research and teaching, the Faculty of Humanities & Social Sciences is playing an important role by responding to key economic, environmental, health and social challenges.

## Economics goes to India

The Department of Economics ran a new initiative this year in an effort to increase our engagement and visibility in India. The 'Young India Student of the Year 2018' scheme challenged prospective undergraduates with a 2,000-word essay competition offering a scholarship towards future study.

At a ceremony held in Delhi in February, our Chancellor presented the winner, Namit Makhija (Vasant Valley School) with the award. His winning entry to the question 'would India benefit from more open trade?' was widely praised by the judging panel.

## Employment opportunities for autistic graduates

The work of the Centre for Applied Autism Research (CAAR) within the Department of Psychology goes from strength to strength. Building on success, this year, in partnership with JP Morgan Chase, CAAR launched a brand new Bath Employment Spring School for Autism.

It's a sad fact that currently less than one in six autistic graduates are employed full time and those in work are often under-employed in roles below their ability. Building on the expertise of CAAR, the Spring School for Autism is seeking to challenge that by opening up work opportunities to autistic graduates and showcasing to employers the many benefits autistic recruits can bring.

## Celebrating 50 years of the IB

In June the Department of Education hosted a conference of University researchers and educators from around the world with interests in the International Baccalaureate (IB), as part of celebrations worldwide of the IB's 50th anniversary.

Through the Department, the University has played an integral role in the development and roll-out of the IB over the past half century. Over this time the IB has grown significantly and now covers the whole pre-university age range. Its growth during this period has been coupled with growth of professional development opportunities for IB teachers including those offered by the Department of Education. June's event was a chance to share best practice in both teaching and research with colleagues based worldwide.



*Top:* Our Chancellor, HRH The Earl of Wessex, with Dr Peter Postl (Head of the Department of Economics) and Professor David Galbreath (Dean of the Faculty) with winner of our Young India student competition, Namit Makhija.

*Bottom:* Professor Jeff Thompson, who has been central to Bath's involvement with the IB, pictured at this year's IB Conference.

*Right:* Royal Ballet soloist Fernando Montaña performed at the University as part of a One Young World event.



*"I have always been interested in social change, but I feel like One Young World has really set off a spark inside me and given me the confidence to take this further."*

Sophie Moody, Bath OYW Student Organiser

## Royal Ballet in Bath

The Faculty's involvement with One Young World (OYW) offers our students the chance to be part of an international movement inspiring positive and lasting change around the world. Each year the Faculty sends student delegates to the international convention and this March we also hosted a One Young World Bath event here on campus.

At the event students heard from Bath OYW delegates who reflected on last year's Summit in Bogotá and were entertained with a spell-binding performance from Royal Ballet soloist Fernando Montaña, who is also a Counsellor for OYW. Also in attendance was Colombian Ambassador to the UK, His Excellency Néstor Osorio.

# School of Management

As one of the UK's leading business schools, we engage closely with business and society to influence the present and shape the future.

## New landmark home

The University is investing £70 million in a landmark building that will enable the School to move to the next stage in the development of its teaching, research and student experience, strengthening its position among UK business schools and supporting its aim of becoming a top 50 global business school.

The new building, which will open for the 2020/2021 academic year, will embody the School's understanding of a 21st century management school, driving creativity, ambition and innovation, and supporting the School's core philosophies of 'engagement, education and collaboration.'

The project is anticipated to create over 100 new jobs on campus and will bring considerable benefits to the City of Bath and wider economy, predicted to be over £240 million of value over 25 years.

The University has retained Hopkins Architects which has pioneered British architecture since 1976 on projects throughout the world including the London 2012 Velodrome; the Wellcome Trust's Gibbs Building; and high-quality educational buildings at universities including Cambridge, University College London, Princeton and Harvard.





## Research4Good: making a positive difference

A new campaign is driving and celebrating management research that makes a positive difference in the world. Research4Good is featuring research in the School that improves people's lives, enhances communities, strengthens economies and contributes to a better world.

Research4Good highlights research from academics across the School engaged in projects that have a positive impact on society, including:

- Helping the UN Capital Development Fund to tackle financial inclusion
- Understanding how modern slavery blights business supply chains
- Saving the UK National Health Service £500 million through innovations in procurement
- Supporting and inspiring social entrepreneurs through a social enterprise development programme
- Working with schools in India and Mumbai to explore how management models impact children's learning and community interaction

Research4Good launched in London and Bath and showcased internationally at the Academy of Management Annual Meeting in Chicago in August 2018. The campaign is running for two years leading up to the opening of the new School of Management building and will include web and social media content, print media, events, awards and a research inspired art exhibition. Visit <http://go.bath.ac.uk/research4good> to find out more.

## 'Golden Triangle' of collaboration

The School of Management brought together government, business and academic speakers to explore how the three sectors can work together to turbocharge regional economies and deliver social benefits through the 'golden triangle' of collaboration.

At a conference hosted at the University, speakers from the three sectors illustrated how harnessing the power of business and policy, underpinned by rigorous academic research, can drive economic growth and social benefits, unlocking the economic opportunities presented by the Industrial Strategy and creating an economy that boosts productivity and earning power throughout the UK.

The School of Management is proudly forging effective collaboration through its work with the NHS, its Productivity through People leadership development programme, and partnerships with companies such as EDF Energy.

# Internationalisation

Our truly international outlook has been embedded across the University's activities for a number of years and has significant impact on our research collaborations and our learning and teaching. Both our international reach and reputation are growing as a result of strengthened links with key partners across the world.

## Chancellor forges links in India

Members of the University were delighted to connect with alumni, partners and prospective students across India during a programme of activities with our Chancellor, HRH The Earl of Wessex, in February. His Royal Highness visited the Indian School of Management and Entrepreneurship, a partner of our School of Management, and hosted a roundtable with business leaders. In New Delhi, His Royal Highness hosted a reception for more than 60 alumni and guests who provide corporate placement opportunities for our students.

The programme closed with His Royal Highness attending the University's first 'Young India Student of the Year' prize-giving ceremony at the British Council in New Delhi. The competition was run by the Faculty of Humanities & Social Sciences and the winner, Namit Makhija, received a £3,000 scholarship when he joined the University of Bath in September 2018.

## Bath hosts international fellows

The University hosted six early-career researchers from Brazil, Mexico and South Africa thanks to a Rutherford Fund Strategic Partners Grant. The postdoctoral Fellows joined research teams in two of our EPSRC-funded Centres for Doctoral Training: Sustainable Chemical Technologies (CSCT) and Statistical Applied Mathematics (SAMBa). The scheme, funded by the UK Department for Business, Energy and Industrial Strategy, supports the development of strategic university partnerships by fostering links between future research leaders and the UK research community.

## Bath welcomes Italian Ambassador

In October, the University welcomed His Excellency Pasquale Terracciano, Italian Ambassador to the UK. Coinciding with the 17th annual 'Week of Italian Language in the World' the visit let the Ambassador find out more about the Department of Politics, Languages & International Studies' (PoLIS) unique methods of combining language studies with contemporary politics and culture. The Ambassador met with staff and students before delivering a guest lecture on 'Anglo-Italian relations from the Roman Empire to Brexit.'

The Ambassador also met with Dr Elena Trincano, whose teaching position is fully-funded by the Italian Ministry of Foreign Affairs. Her role creates links for students and staff with Italian institutions and promotes the study of Italian language and culture abroad. As one of only a few UK universities to have been successful in the scheme, Dr Trincano is Bath's fifth 'Italian Lector' since 2004.

## Global Chair appointments

We were pleased to host a number of international scholars as part of our Global Chair programme, a flagship funding scheme attracting distinguished, globally-renowned scholars to engage in high profile research and engagement activity.

The Department of Education hosted Yong Zhao, Distinguished Professor in the School of Education at the University of Kansas and world leading authority on global education research and advocacy, the Department of Chemistry hosted Philip Power, Distinguished Professor of Inorganic Chemistry at University of California Davis, and the Department of Politics, Languages & International Studies hosted Chung-in Moon, Distinguished Professor of Political Science and International Relations at Yonsei University, South Korea. Professor Moon's visit to Bath coincided with the opening of the Winter Olympics in Seoul and as Special Adviser to the South Korean president he was able to offer insight to staff, students and policymakers on relations between North Korea and South Korea.

## Erasmus+

We funded 452 students on study or work abroad placements and 12 staff to undertake a period of mobility in Europe using Erasmus+ funding in 2017/18.

As a result of a successful bid for Erasmus+ International Credit Mobility funding, we are continuing to strengthen our ties in Jordan through new mobility partnerships with Princess Sumaya University for Technology, University of Jordan, German Jordanian University and Jordan University of Science & Technology.



# Our alumni community

The University's greatest ambassadors are also our most committed supporters. From donating over £68 million in philanthropic gifts to helping student recruitment overseas, our alumni community is as vital as ever.

Alumni and friends have now donated more than £68 million towards the Look Further fundraising campaign. This was launched ahead of the University's 50th anniversary, with the initial target of £66 million set in honour of the year the Royal Charter was granted, 1966.

These donations have created scholarships at undergraduate, postgraduate and PhD level, as well as the Gold Scholarship Programme. This is a lasting legacy of the campaign, and will continue to provide opportunities for students from all backgrounds, year after year. The initial 50 undergraduate Gold Scholars have now successfully completed their first year and we will be welcoming the next 50 in the autumn.

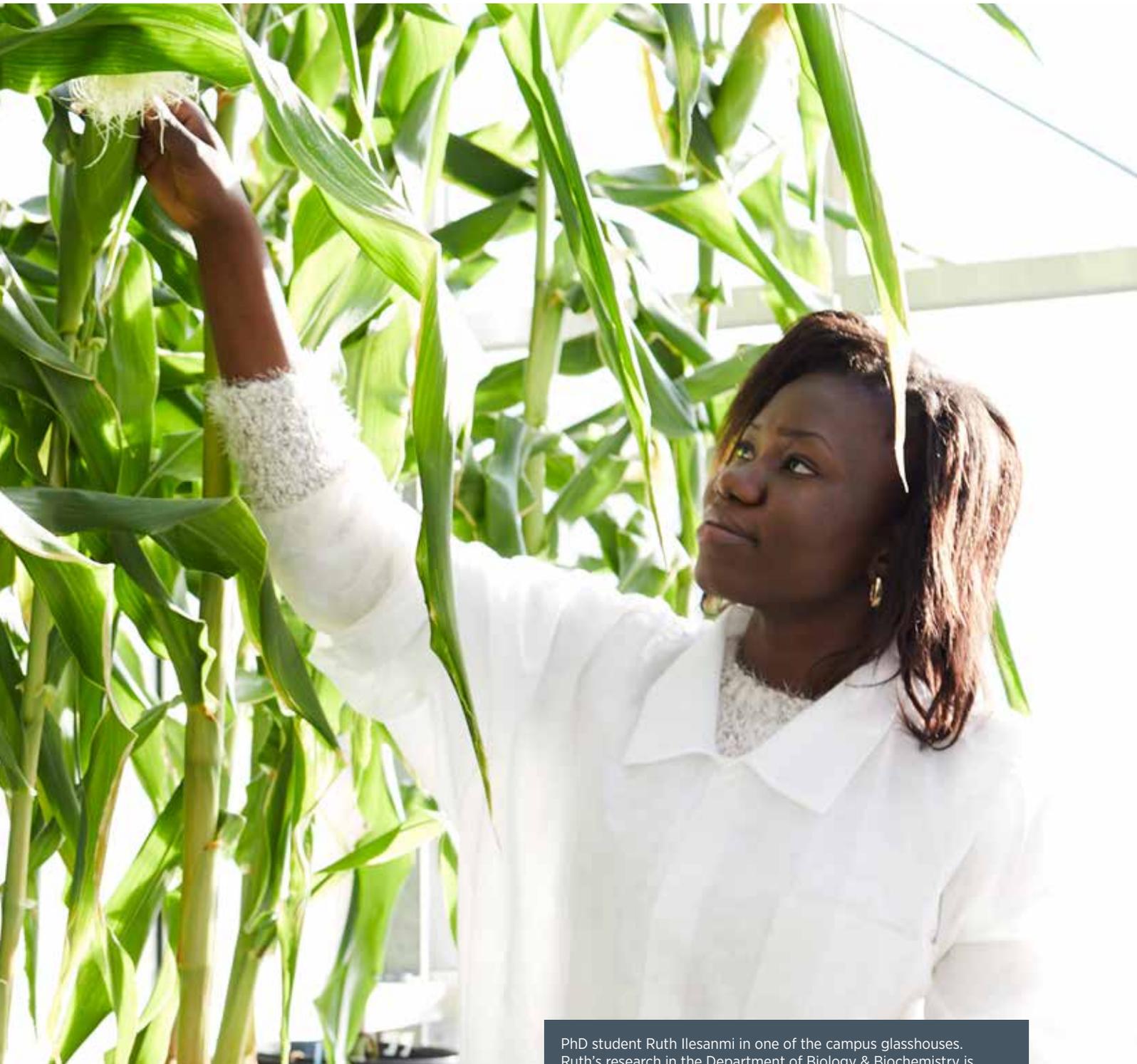
The impact of philanthropy is not only felt across campus, but throughout the world. Diabetes, alternative plastics, vaccines and autism are just some of the critical research areas that benefitted from funding in 2017-18. On 24 May 2018 the Chancellor hosted a reception at Windsor Castle, where beneficiaries of the campaign met with the people who made it all possible.

This special evening was a highlight in what was the most ambitious programme of engagement events to date. More than 70 events took place in the UK and abroad, attracting over 2,500 attendees. The popular Get Connected series, which facilitates networking between alumni and current students, was also launched in Brussels, New York, Hong Kong and Shanghai.

In addition, our global community of alumni have extended their support to the University's international student recruitment and conversion efforts. The introduction of the Alumni Ambassador programme gives overseas offer-holders the opportunity to ask graduates from their home country about studying at the University. Alumni Ambassadors are volunteers and keen to share the value of their Bath education and inspire the next generation.

Our alumni are advocates for the University, role models for our students and supporters of our world-changing research. We are immensely grateful for the part they play in the University's success and look forward to seeing what more we can achieve together.





PhD student Ruth Ilesanmi in one of the campus glasshouses. Ruth's research in the Department of Biology & Biochemistry is supported by donations from alumni and friends.

Credit: Anthony Prothero



Images of Research celebrated its 10th anniversary this year

# Public engagement

Public engagement is central to the University's mission and we aim to embed this culture throughout the research lifecycle. During the year, researchers involved the public with their research through a myriad of projects.

## Local research partnerships

This year, the Public Engagement Unit has invested in two local community research partnerships. 'River is the Venue' has combined expertise from two local arts organisations – 44AD and Art at the Heart – with researchers from our departments of Architecture & Civil Engineering and Education to produce artworks and community workshops that explore the impact of flooding on the city.

'The Cubicle' has pooled cutting-edge research on body image from our Department of Psychology with the performing arts skills of Kilter Theatre. Involving a range of participatory performances delivered within a private changing room cubicle, the project has challenged unrealistic ideals of body image.



## Festival of Nature

The Festival of Nature in Bristol and Bath saw the largest ever presence of researchers from the University. From fruit flies to fossils, researchers from the faculties of Science, Humanities & Social Sciences and Engineering & Design engaged over 3,000 people with their research at the UK's largest free celebration of the natural world.

## Images of Research

2018 saw the 10th anniversary of the University's 'Images of Research' competition. The competition challenges researchers to capture the impact their research has on the world through an image and a short, plain English description.

Over the years, over 550 entries have been turned into posters for exhibition both on- and off-line, reaching thousands of people in the process.



*Top:* The Cubicle changing room project challenged unrealistic ideals of body image

*Bottom:* Researchers share their Images of Research at an exhibition in the Chancellor's Building

***“Public engagement brings together academic and civic communities for mutual benefit: making research more societally relevant and also contributing to our local community.”***

Dr Helen Featherstone,  
Head of Public Engagement

Engineered Equanimity showcased the technological manipulation of Steven Pippin, one of Britain's most inventive artists



Steven Pippin, *New Constellation* (1999)  
Photographed by Paul Blakemore

# Arts

The Edge is an arts and creativity hub informed by the context and research of the University of Bath – a destination that promotes the art in science and the science in art.

## Engineered Equanimity: The Machines of Steven Pippin

The University's strengths in Engineering and Physics tied into an exhibition by inventor and artist Steven Pippin. Engineered Equanimity offered audiences new perspectives on everything from Newtonian mechanics to the production of renewable energy, re-framed with an autonomous spirit of inquiry.

## Arts Council England and grants

Arts Council England (ACE) awarded The Edge their first grant, an important development for the Department, supporting £37 thousand of public programming, to include community engagement work.

In October ACE's Chief Executive Darren Henley hosted a symposium celebrating our artist and researcher collaborations. The Wellcome Trust, The National Centre for Co-ordinating Public Engagement and London's art and science hub Arts Catalyst mixed with Bath researchers. This is a growing area of development, opening up opportunities to be a world-leading force in applied arts and research outcomes.

ACE's patronage also supported our inaugural Festival of the Future City Bath season on architecture and social mobility in cities, comprising three days of walks, talks, family events, exhibitions and more. Partners included B&NES Council, Bath Preservation Trust, Bristol Festival of Ideas, RIBA and Architecture Is.

The year closed with an award of £90 thousand from The John Ellerman Foundation to support a curatorial post shared between The Edge and The Holburne museum. The curator will foster collaborations between visual artists and University of Bath researchers.

## Student participation

Our student arts excellence programme helps develop more fully-rounded graduates and future employees. This year we awarded 14 Art Scholarships, an increase of three on 2016/17.

Scholars and students were able to work with mentors including musicians, composers, conductors, theatre companies and photographers. A particular highlight was mentor Pee Wee Ellis giving a talk about his career with the legendary James Brown, which was broadcast on Jazz FM.

In March, arts scholars and students presented Platform, showcasing music, photography and poetry, and University of Bath students also performed at Bath Fringe 2018, UniSlam and the British Arts Festivals Association Annual Conference, with our a capella student group Aquapella touring the UK.

## Edge Arts Community

Membership currently stands at more than 1,500 Bath students. An Advisory Group of eight students devises a weekly programme of creative activities for University of Bath students and alongside this, two Student Coordinators develop Edge Arts Community strategy and objectives.



The Edge puts on a year-round programme of exhibitions, performing arts presentations, talks, arts classes, family and community events

# Sports

A multitude of medals at major international championships and the return of royalty to the Sports Training Village were among the highlights of another outstanding year of sport at the University of Bath.

## Best of British

The University's reputation as a sporting centre of excellence was further enhanced when it was named as the 2018 Sports University of the Year in *The Times and Sunday Times* Good University Guide.

The prestigious honour recognised not only the world-class facilities and support services available to students, staff, public and elite athletes at the Sports Training Village but also the ranking and quality of sports-related subjects at the University.

Those facilities will be further upgraded by the opening of the Team Bath Gym & Fitness Centre – a £3.5 million two-storey extension that will double the capacity of the existing gym.

## Medals galore

The award was also based on the performances of our student-athletes and they continued to excel throughout the year, with the most notable achievement coming from Mechanical Engineering PhD student Dom Parsons who won men's skeleton bronze for Team GB at the PyeongChang 2018 Winter Olympic Games.

That was one of three medals won in South Korea by British Skeleton athletes who train on the University's unique push-start track, with Lizzy Yarnold making history as she successfully defended her women's title. She was joined on the podium by bronze-medallist Laura Deas.

The international sporting success continued at the Gold Coast 2018 Commonwealth Games when 30 University-based sportspeople won 17 medals between them, including an historic gold with England Netball for Team Bath's Eboni Beckford-Chambers and Kadeen Corbin.

Among the six students competing in Australia was swimmer Anna Hopkin, supported by a Thompson Education Trust Sports Scholarship, whose bronze medal in the women's 4x100m freestyle relay was part of a memorable 2018 that saw her named as the BUCS (British Universities & Colleges Sport) Sportswoman of the Year.

## Making their mark

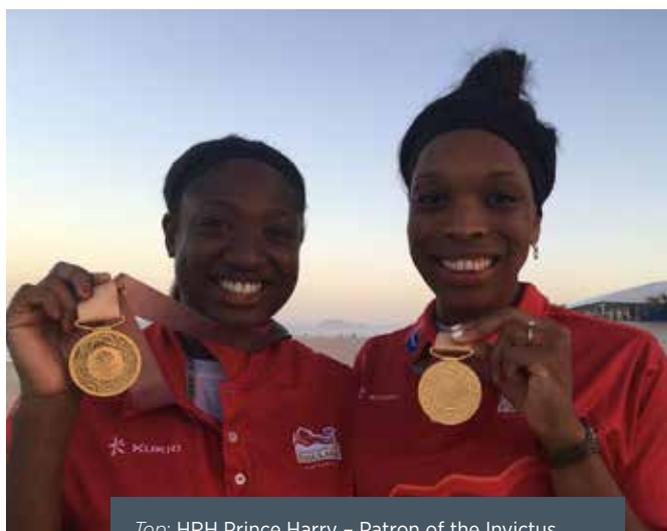
Other student sporting successes included a first English National Badminton men's singles title for Alex Lane; England Rugby representation in the U20 Six Nations for Beck Cutting; a debut Master'U BNP Paribas world tennis title for a GB team featuring Emma Hurst and Pippa Horn; and a bronze medal at the European Modern Pentathlon Championships for Joe Choong.

Joe and his Pentathlon GB team-mates will aim to be back on the podium when the University of Bath hosts the 2019 European Championships – a qualifying event for the Tokyo 2020 Olympic Games.

## Royal welcome

The eyes of the world were back on the University in April when the Sports Training Village hosted the Invictus Games UK Team Trials for a third successive year.

Cheering on the hundreds of wounded, injured and sick servicemen and women competing for a place at the 2018 Games in Sydney were HRH Prince Harry – Patron of the Invictus Games Foundation – and his soon-to-be-wife Meghan Markle, their presence ensuring worldwide media coverage.



Top: HRH Prince Harry – Patron of the Invictus Games Foundation – and his then-fiancé Meghan Markle visited the Invictus Games UK Team Trials.

Bottom: Team Bath's Kadeen Corbin and Eboni Beckford-Chambers scooped netball gold at the Gold Coast 2018 Commonwealth Games



Dom Parsons won Great Britain's first medal of the 2018 Winter Olympics with bronze in the men's skeleton

Photo: Mike Varey, Elitepixs

# Our Honorary Graduates

This year saw a number of eminent figures from arenas as diverse as science, engineering, business and sport being awarded honorary degrees in recognition of their achievements and contribution to their specialist fields.



## Honorary Doctor of Engineering (DEng)

Warren East	July 2018
Stephen Moore	Dec 2017

## Honorary Doctor of Health (DHealth)

Gary Mabbutt MBE	July 2018
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## Honorary Doctor of Laws (LLD)

Major Heather Mary Stanning OBE	July 2018
Rowan Douglas CBE	July 2018
Belinda Phipps	July 2018
Peter Harrison	Dec 2017

## Honorary Doctor of Science (DSc)

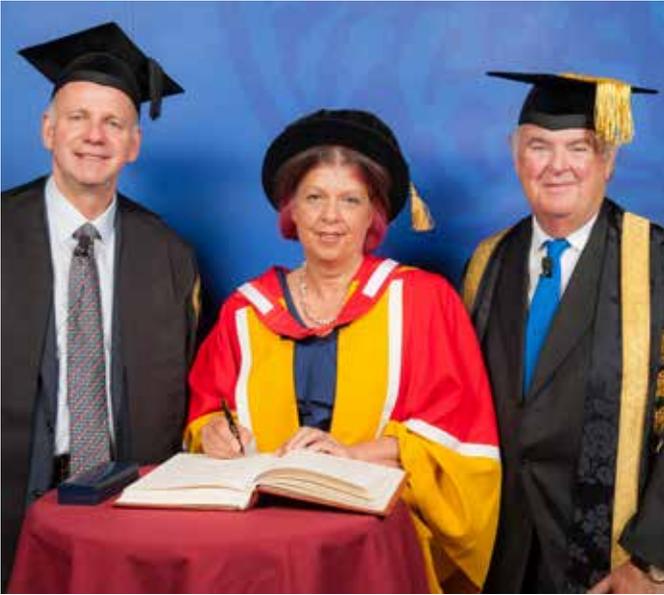
Professor Amanda Chessell	Dec 2017
Professor John Toland	Dec 2017
Dr Maxine Gowen	July 2018
Professor Noel Fitzpatrick	July 2018
Professor Jane Langdale FRS CBE	July 2018

## Honorary Doctor of the University (DUniv)

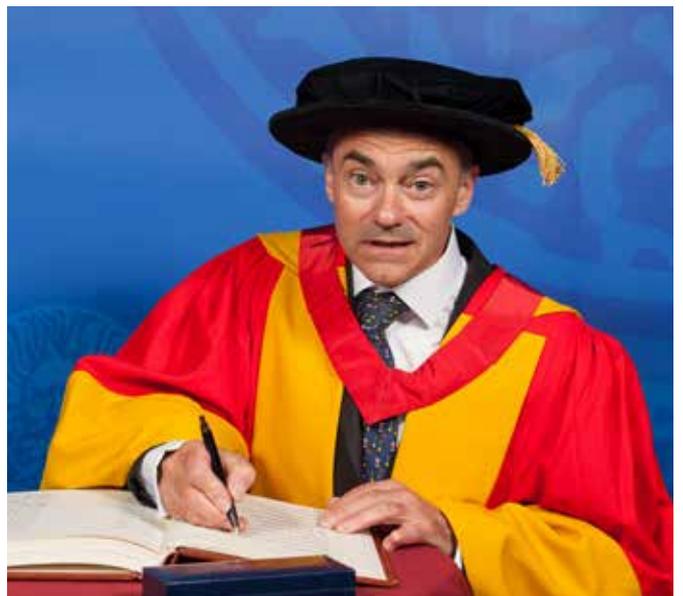
Bill Bailey	July 2018
Dr Simon Edward Timson	July 2018

## Honorary Doctor of Arts (DArts)

Dame Beryl Grey CH DBE	July 2018
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Distinguished figures were recognised with honorary degrees at summer and winter graduation ceremonies



# Accounts

Consolidated and University statement of comprehensive income  
for year ended 31 July 2018

	Consolidated	Consolidated	University	University
	2018 £m	2017 £m	2018 £m	2017 £m
<b>Income</b>				
Tuition fees and education contracts	164.0	148.8	164.0	148.8
Funding body grants	32.0	31.9	32.0	31.9
Research grants and contracts	37.0	35.1	37.0	35.1
Other income	49.5	47.2	49.5	47.2
Investment income	2.7	1.0	2.7	1.0
Donations & endowments	2.8	2.8	2.7	2.8
<b>Total income</b>	<b>288</b>	<b>266.8</b>	<b>287.9</b>	<b>266.8</b>
<b>Expenditure</b>				
Staff costs	155.0	143.6	155.0	143.6
Other operating expenses	94.7	95.4	94.7	95.4
Depreciation	25.4	24.1	25.9	24.6
Interest and other finance costs	7.5	5.0	7.5	5.0
<b>Total expenditure</b>	<b>282.6</b>	<b>268.1</b>	<b>283.1</b>	<b>268.6</b>
<b>Operating Surplus/(deficit)</b>	<b>5.4</b>	<b>(1.3)</b>	<b>4.8</b>	<b>(1.8)</b>
Increase/(decrease) in market value of non current asset investment	(0.1)	0.3	(0.1)	0.3
Increase in market value of current asset investments	1.5	5.8	1.5	5.8
<b>Surplus for the year</b>	<b>6.8</b>	<b>4.8</b>	<b>6.2</b>	<b>4.3</b>
Actuarial gain in respect of pension scheme	15.5	5.0	15.5	5.0
Change in the fair value of tangible fixed assets	26.4	52.8	26.4	52.8
Change in the fair value of derivatives	0.7	2.7	0.7	2.7
<b>Total Comprehensive Income in the year</b>	<b>49.4</b>	<b>65.3</b>	<b>48.8</b>	<b>64.8</b>
<b>Represented by</b>				
Endowment comprehensive income for the year	0.6	0.8	0.6	0.8
Restricted comprehensive income (expenditure) for the year	0.4	(0.1)	0.4	(0.1)
Unrestricted comprehensive income for the year	22.0	11.8	21.4	11.3
Revaluation reserve comprehensive income for the year	26.4	52.8	26.4	52.8
<b>Total Comprehensive Income in the year</b>	<b>49.4</b>	<b>65.3</b>	<b>48.8</b>	<b>64.8</b>

## Consolidated and University balance sheet as at 31 July 2018

	Consolidated	Consolidated	University	University
	2018 £m	2017 £m	2018 £m	2017 £m
<b>Non-current assets</b>				
Fixed assets	724.5	677.0	725.1	678.1
Investments	1.2	1.7	1.2	1.7
<b>Total non-current assets</b>	<b>725.7</b>	<b>678.7</b>	<b>726.3</b>	<b>679.8</b>
<b>Current Assets</b>				
Stock	0.4	0.3	0.6	0.5
Trade and other receivables	17.4	16.5	17.4	16.5
Investments	204.9	115.5	204.9	115.5
Cash and cash equivalents	8.3	6.7	8.1	6.5
	231.0	139.0	231.0	139.1
<b>Creditors : Amounts falling due within one year</b>	<b>(69.0)</b>	<b>(60.8)</b>	<b>(69.0)</b>	<b>(60.8)</b>
<b>Total net current assets</b>	<b>162.0</b>	<b>78.2</b>	<b>162.0</b>	<b>78.3</b>
<b>Total assets less current liabilities</b>	<b>887.7</b>	<b>756.9</b>	<b>888.3</b>	<b>758.1</b>
<b>Creditors : Amounts falling due after more than one year</b>	<b>(258.2)</b>	<b>(165.3)</b>	<b>(258.2)</b>	<b>(165.3)</b>
<b>Provisions</b>				
Pension provision	(68.6)	(80.1)	(68.6)	(80.1)
<b>Total net assets</b>	<b>560.9</b>	<b>511.5</b>	<b>561.5</b>	<b>512.7</b>
<b>Restricted reserves</b>				
Income & Expenditure reserve - Endowment reserve	6.9	6.0	6.9	6.0
Income & Expenditure reserve - Restricted reserve	2.0	1.9	2.0	1.9
<b>Unrestricted reserves</b>				
Income & Expenditure reserve - Unrestricted reserve	232.0	200.6	232.6	201.8
Revaluation reserve	320.0	303.0	320.0	303.0
<b>Total reserves</b>	<b>560.9</b>	<b>511.5</b>	<b>561.6</b>	<b>512.7</b>

The University's key financial metric is Historic Cost operating surplus being £8.6 million and 3.3 per cent of income. This excludes a number of accounting entries and balances introduced by FRS102 where a fair value measure is used, and therefore this measure more accurately reflects the University's on-going financial performance.



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