

Cardiff University Annual Review 2016

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Introduction by the Vice-Chancellor

2016 was a momentous year, not just for Cardiff University but in the history of this country. The vote to leave the European Union not only marks a major turning-point for the UK, but set in train fundamental changes that will shape the future of universities throughout the UK in ways that we could not previously have imagined.

Most of the changes to the student body, to infrastructure and research funding and to international research collaboration will take place over a period of years. However, it was heartening to see that in 2016 at least, the potential for immediate deleterious effects on student recruitment were mitigated by swift government action to reassure EU applicants. In fact, we enjoyed an excellent year for admissions, growing our numbers by about 1,000 students.

The year started well when the then-Chancellor, the Rt Hon George Osborne, came to the University to announce a £50m Catapult to enable business and industry to work with academic researchers with the aim of accelerating the commercialisation of new compound semiconductor technologies. Compound semiconductors are a highly sophisticated technology that form the basis not only of next-generation computer chips and wireless technology, but various photonic applications including energy generation through solar cells. In December we won a £10m grant from the Engineering and Physical Sciences Research Council (EPSRC) to create a Manufacturing Hub in Future Compound Semiconductors. The new Hub will work closely with the existing Compound Semiconductor Centre (CSC), which is a partnership between Cardiff and global advanced semiconductor wafer manufacturer IQE. Along with our own Institute for Compound Semiconductors, what all this adds up to is quite astonishing progress towards creating a technology cluster in compound semiconductors which, if successful, will provide a huge boost to the economy of Wales.

In June 2016 Her Majesty The Queen, accompanied by the Duke of Edinburgh, opened the new Cardiff University Brain Research Imaging Centre (CUBRIC). This highly advanced Centre places Cardiff among the world top three for brain imaging, and adds immeasurably to our already superlative strength in neuroscience and mental health. Advances in understanding and treating mental health conditions and neurodegenerative diseases such as Alzheimer's depend on undertaking the microstructures of the living human brain and being able to observe brain function in action. CUBRIC will allow this to happen at a level, orders of magnitude greater than was previously possible. Over half this £44m project was externally funded, for which we are extremely grateful, but it's worth noting that strategic projects such as those I have just outlined would be impossible to realise without the financial strategy to support them.

With that in mind, in February 2016 the University issued a £300m bond, which we secured at a record low interest rate of 3.1%. It is worth mentioning the rate because it amounts to a vote of confidence in the University by the bond issuers, though of course it is also reflective of the financial and economic climate. More importantly, the bond proceeds will allow us to make the kinds of investments we need to make in order to succeed in the highly competitive global environment in which, for better or for worse, we find ourselves. Work has already started on Innovation Central, a £46m building on the Maindy Road Innovation Campus, which will allow us not only to foster university spin-outs but also attract small and growing businesses that want to work with us.

We will be able to use the facilities to promote graduate entrepreneurship and ensure that our students are at the heart of our innovation activities. On an adjacent site we are building a Translational Research Facility, an £82m building that will house researchers working in areas of fundamental science that can swiftly be turned into practical and commercial application. This is the building that will house the Cardiff Catalysis Institute and the Institute for Compound Semiconductors.

The project that is likely to have the biggest impact in terms of the fabric of the University is the Centre for Student Life. This £50m project will be built in front of the existing Students' Union, which will retain a prominent entrance from Park Place, and will bring together in a one-stop shop all the facilities and services that students need. It will be accompanied by a revolution in the way we provide online services for students and will house academic facilities such as a large lecture theatre as well as extensive exhibition space, retail space and study areas. We were delighted to receive planning permission in December 2016 and preparatory works have already begun with an anticipated completion date of 2018.

This last year was also notable for the changes in domestic higher education policy that will have far-reaching effects for years to come. The Welsh Government accepted the broad thrust of the recommendations of the Diamond Review of fees and funding, which should put university funding in Wales on a sound footing from the academic year 2018/19, as well as providing full maintenance grants to those in society who are most in need of financial support. No other



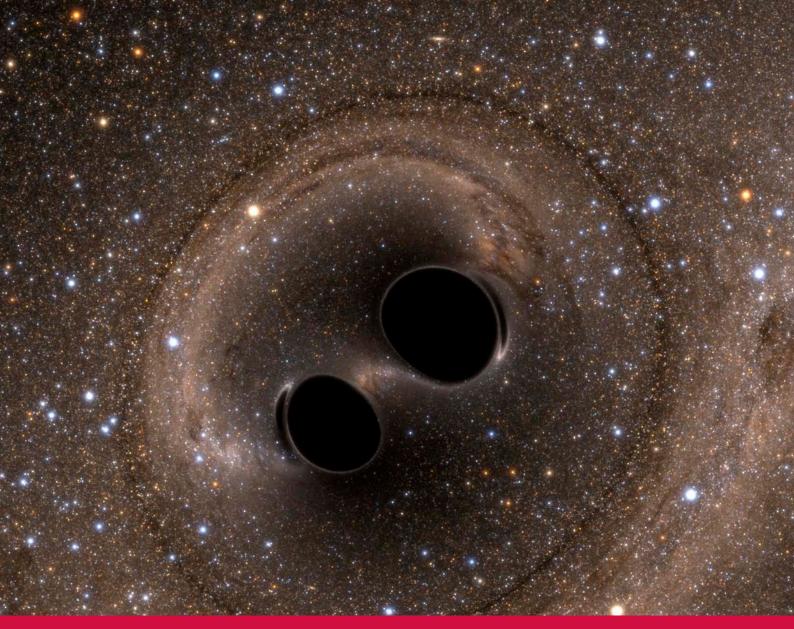
UK nation will be able to boast such generous support for students. On the UK stage, the Higher Education and Research Bill is bringing together all the UK research functions into one body entitled UK Research and Innovation, a body with which the University will need to engage strategically over the coming years. And the UK government is introducing a Teaching Excellence Framework in which Welsh universities could, if they wished, take part. Here at Cardiff we decided that participation was crucial on reputational grounds, for as in the case of the Research Excellence Framework. government-sponsored exercises of this kind tend to gain a legitimacy that makes them impossible to ignore over time.

In November 2016 we signed our second major international strategic partnership, with Xiamen University, an excellent complement to our first partnership with Leuven University in Flanders. The relationship with Xiamen (Cardiff's twin city in China) has been built up over a number of years and is already showing results in the form of joint research projects and teaching exchanges. In the post-Brexit world our wider global presence is likely to be of even greater importance, and we will be considering how to develop our strategy as events unfold.

Finally, we had a number of notable individual successes in the last academic year. Professor Graham Hutchings, Director of the aforementioned Cardiff Catalysis Institute, was the recipient of a highly prestigious Regius Professorship award to the School of Chemistry, and Professor Karen Holford, Pro Vice-Chancellor of the College of Physical Sciences and Engineering, was named in the inaugural list of the Top 50 Women in Engineering. Professor Elizabeth Treasure, Deputy Vice-Chancellor, was appointed as Vice-Chancellor of Aberystwyth University, a signal achievement which is testament to her exceptional ability and excellent record at Cardiff. 1 am delighted to say that Professor Holford will replace Professor Treasure as Deputy Vice-Chancellor at Cardiff, and I look forward to working with Karen to achieve continued success for the University in years to come.

Professor Colin Riordan

President and Vice-Chancellor, Cardiff University



A new wave of astronomy

Experts from the School of Physics and Astronomy are part of a team who witnessed the "true beginning" of gravitational wave astronomy.

The detection of tiny ripples in space-time emitted as a result of violent cosmic events was announced by the LIGO (Laser Interferometer Gravitational-Wave Observatory) Scientific Collaboration (LSC) and confirms Einstein's prediction exactly 100 years ago.

Research

We are an ambitious and innovative institution ranked among the top five universities in the UK for research excellence. Our academics are some of the world's best, and include Nobel Laureates and Fellows of the Royal Society among many other honours. Our research pursues new approaches to some of the grand challenges facing society, the economy and the environment. And through the Cardiff Innovation System we forge collaborative relationships with industry, business, and government to encourage co-operation on addressing the major challenges of our time.



English shoppers ditch the carrier bag

Around 90% of people in England now take their own bags with them when food shopping as a result of the plastic carrier bag charge, new research from the Welsh School of Architecture has revealed.



Poor sleep for children using media devices

Experts from the School of Medicine found that children using screen-based media devices at bedtime have over double the risk of inadequate sleep compared to children without access to such a device.





Treatment withdrawal from patients in a permanent vegetative state

People in permanent vegetative states (PVS) are being failed by the system, according to researchers at the Cardiff-York Coma and Disorders of Consciousness Research Centre who found that some people are being kept alive in PVS for years against their own - and their families' - wishes.

£50m for Cardiff Compound Semiconductor Catapult

Former Chancellor George Osborne announced a new £50m UK national Catapult to develop and build the next generation Compound Semiconductor (CS) technologies. It will be spearheaded by Cardiff University and Cardiff-based CS specialists IQE.



A major investment in our students and their learning experience

Our £50m landmark building at the heart of our Cathays Campus was given the go ahead. The Centre for Student Life is a major investment in the student experience and part of the biggest campus upgrade in a generation.

Education

We care about our students. We support our students and equip them for their future careers. We listen so that students have a say in their learning environment and experience while benefitting from the quality of our research. We recognise the diversity of our student community and although academic life at Cardiff University is challenging, the level of choice and flexibility means that it is also innovative and rewarding.



National Software Academy 'flourishing'

Our National Software Academy, which celebrated its first anniversary in November, has succeeded in attracting leading companies to work with students on a wide range of real life projects.

The success of the Academy was witnessed first-hand by Julie James AM, Minister for Skills and Science.

University welcomes care leavers

Young people with a background in care have taken part in our two-day *Confident Futures* Summer School, organised in partnership with First Campus. The event saw the students immerse themselves in university life and is just one of a series of initiatives aimed at encouraging people from traditionally underrepresented groups to go to university.



Preparing the next generation of leading social science researchers

We have been named as a lead partner for one of 14 new Doctoral Training Partnerships (DTPs) announced by the Economic and Social Research Council (ESRC).

The DTPs will ensure that our students benefit from access to the highest-quality training in the social sciences, supplying the next generation of social science researchers with the skills, curiosity and creativity to be truly innovative.

Best in Wales for student experience

We offer the best student experience in Wales according to the latest Times Higher Education UK Student Experience Survey.

We sit in 12th place, a rise of 17 places on last year's survey.



Tomorrow's Doctors

Our medical students were subject to a unique behind-the-scenes look at life as a busy doctor in the making for a new series on S4C.

With unprecedented access, the series *Doctoriaid Yfory* (Tomorrow's Doctors) followed our students as they got to grips with the demands of an intense academic year and the stark reality of busy operating theatres, GP practices and hospital wards across Wales and beyond.



Engagement

We aim to demonstrate our commitment to the communities of Cardiff, Wales and the world beyond through knowledge exchange projects which draw on research, work and relationships. Our five flagship engagement projects, City Region Exchange, Community Gateway, Community Journalism, The Phoenix Project and Strong Communities, Healthier People, are ambitious and work with communities to tackle poverty, boost the economy and improve health, education and wellbeing provision.

Shaping the city region

Our City Region Exchange project brought together politicians, businesses and community groups to consider how our students and staff can help shape the future direction of Cardiff Capital Region, a Welsh Government initiative established to encourage Cardiff's local authorities and other stakeholders to collaborate on projects and plans for the city region.

The event showcased how we work with partners across the city region to improve health and wellbeing, boost the economy, strengthen educational attainment and raise the quality of our environment.

Mental health advice in community

Vaughan Gething AM, Cabinet Secretary for Health, Wellbeing and Sport, saw how we are helping improve health and wellbeing in the Grangetown community during World Mental Health Day.

At an event organised by the Community Gateway Project held in the Grange Pavilion, residents were offered face-to-face mental health advice by experts following a similar event last year.

CAER Heritage Project -Exploring Utopia

Pupils from Michaelston Community College in Ely, a Cardiff suburb built in the 1920s as a desirable garden village, have captured modern and medieval visions of a 'perfect world' in a short film.

As part of the CAER Model Village project, delivered in collaboration with Action in Caerau and Ely, the pupils participated in an archaeological excavation at a 14th century village, discovering what it was like to live in Ely during a very different era.





Trauma pack to save 'countless lives'

Life-saving trauma packs to treat the victims of road traffic collisions in developing countries will save "countless lives" after funding was secured for a major trial.

The packs, developed by Phoenix Project lead Professor Judith Hall, contain life-saving equipment with simple instructions, and have been created with clinicians from the Welsh National Health Service and industry partners.

They will be used to tackle the extremely high death rates on Namibia's roads.



Ready for race day

Hundreds of staff and students played a major role in one of the biggest sporting events Cardiff has ever hosted.

The University-sponsored IAAF World Half Marathon Championships saw thousands of runners following in the footsteps of 200 elite athletes including double Olympic champion Mo Farah.



Discovering local treasures

Groups of people in some of the most disadvantaged communities of Cardiff and Merthyr Tydfil discovered and promoted their local heritage through geocaching thanks to the Strong Communities, Healthier People project.

The activities are part of Welsh Government's Fusion: Tackling Poverty through Culture programme, which brings together Communities First and cultural bodies to engage with and inspire young people and adults who wouldn't normally have the opportunities to participate in culture and the arts.

Eisteddfod 2016

Our presence at this year's National Eisteddfod of Wales showcased the range of contributions we make to Wales.

In light of the vote to leave the EU in June, several politically-focused events examined the impact of a turbulent political period upon Wales.

The University's Summer of Innovation, a celebration of work which turns outstanding research into 'real world' products, services and spin-out companies, was also showcased at the festival highlighting change of a different kind for Wales.

Festivalgoers also learnt about research specific to the language of Wales including, CorCenCC: Corpws Cenedlaethol Cymraeg Cyfoes (the National Corpus of Contemporary Welsh), a £1.8m community-driven project that aims to develop a 10m-word Welsh language resource.

Llais y Maes (Voice of the Field), a bilingual digital newspaper run by the University's Centre for Community Journalism, once again covered the National Eisteddfod of Wales but this year took an exciting new approach.

Learners from PeoplePlus Cymru, which provides work-based learning on behalf of the Welsh Government, were involved for the first time alongside our students, who have run Llais y Maes alone previously. Llais y Maes, established in 2013, trains students in key journalistic skills such as creating news content, writing and video editing.





Bringing Wales to the world

We signed a partnership agreement with Xiamen University to increase collaborative research, share education best practice and create more opportunities for student and staff exchange.

The agreement was signed by President Zhu of Xiamen University and Vice-Chancellor Professor Colin Riordan with the First Minister of Wales in attendance.

International

We are international and our growing global community, reputation and partnerships reflect this. We aim to attract the highest calibre students, academics and researchers from all over the world, recognising that diversity enhances the learning experience and brings creativity and innovation to our teaching and research.



Education Secretary visits University

Kirsty Williams AM visited our Global Opportunities Centre to see how we enable students to access international placements through our links with over 300 institutions in Europe and beyond.



Proud to be International

We joined more than 100 universities by highlighting the success of our international activities as part of the #WeAreInternational World Week campaign.

We have almost 7,000 international students, and staff from 78 countries, and our alumni reach across 180 countries.



Chevening Scholars welcomed to University

Future world leaders were welcomed to the University as part of the UK government's prestigious Chevening global scholarship programme.

US News Best Global Universities

We ranked among the world's top 150 universities and in the top 20 in the UK for academic research and reputation according to the US News Best Global Universities rankings.

Cardiff's 'global outlook' recognised

We ranked among the world's top 200 most international universities in the Times Higher Education World University Rankings.

University leads EU science advice project

We will represent the UK in a new €6m project, entitled "Science Advice for Policy by European Academies", funded through the EU's Horizon 2020 Programme set up to provide evidencebased scientific advice for EU policymaking.



Bee-friendly campus

Renovations have made the Redwood Building more bee-friendly as part of an innovative project led by our School of Pharmacy and Pharmaceutical Sciences. The renovations mark the start of a campaign to make us a bee-friendly university campus.

The newly installed hives will improve local biodiversity and create a habitat for the city's bees which researchers have identified as producers of antibacterial honey. Our team of researchers used honey to find new drugs to treat hospital infections caused by antibiotic resistant superbugs.

Sustainability

Sustainability is one of the guiding principles in our ambition to bring about social, environmental, economic and health benefits to Cardiff, Wales and the wider world. We are a Fairtrade university and a Living Wage employer. We pursue sustainable development in our engagement with external stakeholders and work to increase efficiencies in our internal operations.



How green is my university?

Efforts to improve the University's green credentials were officially recognised in the latest People and Planet University League rankings.

Rising eight places since last year we came joint 38th out of 150 UK institutions achieving the maximum score for our Environmental Policy and our Auditing and Environmental Management Systems.

Making an impact

Our staff and students have taken action in a series of National Union of Students (NUS) programmes to make sustainable developments across our campus, curricula and community.

The NUS programmes - Green Impact, Blackout and Student Switch off - promote sustainability education and enable students and staff from across the University community to make positive changes to our environmental impact.

This year a group of 146 staff and students have been successful in gaining the UNESCO recognised Green Impact award, which focused on making our laboratories more sustainable.



Community Benefits

Companies wishing to provide goods and services to the University will now have to demonstrate a commitment to environmental, social and economic issues as a new sustainability risk assessment is introduced.

The measure, applied to all procurement decisions over £25,000, is part of a series of updates to our business practice designed to foreground ethical considerations when commissioning work or services from external organisations.

Community benefit clauses designed to create skills and training opportunities, provide employment for those not in education, employment or training, and supply chains for small, medium and social enterprises are among the other changes.

The procurement process for recent campus upgrades like Talybont Gate, the Postgraduate Teaching Centre and the Cardiff University Brain Research Imaging Centre included community benefit clauses.



#CarFreeCardiff

In recognition of our ongoing commitment to sustainable development, we supported Cardiff's first Car Free day in partnership with the City Council.

Residents and commuters were encouraged to leave their cars at home and use alternative ways to travel as the event saw Park Place closed to traffic for 24 hours.

Car Free Cardiff, launched on World Car Free Day, highlighted the health benefits of walking, cycling and using other forms of sustainable transport while reducing pollution in the local area.

Coinciding with Freshers' Fortnight festivities a variety of pop up stalls from the Students' Union and Cardiff University Sport lined the street alongside exhibitions on sustainable travel and bicycle security.



Cylch Caerdydd donors 2015-16

£25,000+

Mr Rashid Domingo Sheikh Yousef Abdul Latif Jameel

£5,000 - £24,999

Professor Paul Atkinson Dr Sara Delamont Mr Arshad Ali (BDS 1978) Captain Kenneth D Nelson (BSc 1949 Sir Stanley Thomas (Hon 2011) Mrs Anne Whipp

E1,000 - **E4,99**9

Mrs Carole Bartley Dr Paul Bartley Mr Lyndon N Bigmore (BEng 1981) Ms Pingjun Chen (MA 1994) Mrs Angela Croad Mr John M Croad (BDS 1968) Mr Vivian David (BEng 1968) Ms Jayne Dowden (BA 1978, MA 1980) Mr Graham Evans Mr John L Evans (BEng 1986) Professor Simon Gibson (Hon 2016) Mr Michael H Haffenden (BSECon 1969 PGDip 1970) Mrs Coral Juleff

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Mr David Simpson Mrs Dee Dee Simpson Professor Elizabeth Treasure Sir Donald Walters (Hon 1988)

Cardiff University extends sincere thanks to all donors who wish to remain anonymous. To learn more about Cylch Caerdydd visit **cardiff.ac.uk/cylch-caerdydd**

Philanthropy

Philanthropy is key to Cardiff University's mission to create and share knowledge and to educate for the benefit of all.

2015-16 was a year of fundraising success thanks to the generosity of more than 600 donors from 16 countries worldwide. Donors promised over £2.3m in new gift pledges.

Cardiff University and its predecessor institutions were founded and advanced thanks to generous philanthropic support. In 2015-16, the Vice-Chancellor founded Cylch Caerdydd in recognition of the continued importance of such gifts to Cardiff University. Cylch Caerdydd recognises the importance of all gifts of £1,000 and above donated by generous individuals in an academic year.

In its launch year, the circle had 44 donors. Cylch Caerdydd donors play a crucial role in helping Cardiff University shape a better, healthier society. Individually and collectively,

⁴⁴ It's important to me to know that my contribution, combined with other like-minded members of Cylch Caerdydd, can make a real difference to the lives of students studying at Cardiff. ¹⁷

Sonia Sayed, Cylch Caerdydd Member.

Cylch Caerdydd gifts help the University transform ideas quickly and efficiently, and make a crucial difference in elevating Cardiff's teaching and research to the next level.

A significant proportion of Cardiff's philanthropic income comes from generous people who choose to leave Cardiff University gifts in their Wills. Legacy gifts play a significant part in helping to shape our world – from educating today's brightest minds to finding solutions to some of society's biggest challenges.

Other Cardiff supporters choose to make gifts in memory of a loved one. Sue Lloyd-Roberts, a pioneering journalist who worked at both ITN and the BBC, passed away in October 2015; in her lifetime, Sue promoted journalism, women and human rights. She left behind an inspiring legacy through several projects that promote journalism, women and human rights. The Sue Lloyd-Roberts Scholarship, funded by Sue's family and friends in her name, supports postgraduate students who aim to pursue a career in international affairs, human rights or the environment.





44 I am so delighted and privileged to be the first recipient of this amazing scholarship. **77** Grace Adeniji, School of Journalism, Media and Cultural Studies postgraduate student and the 2016 recipient of the Sue Lloyd-Roberts Scholarship.

In 2015-16, we also launched our community fundraising programme which invites staff, students, alumni and friends to support Cardiff University as their chosen charity across a range of activities. This year dozens of supporters joined **#TeamCardiff** by running the Cardiff Half Marathon to raise funds for Cardiff University research in neuroscience and mental health, cancer research; or for student support. **#TeamCardiff** is now growing apace – visit **www.cardiff.ac.uk/cardiff-half**

Cardiff University is hugely grateful to all donors. Your continued support is helping to save, change and enrich lives in Wales and beyond.

Financial Performance

Research Grants and Contracts Income

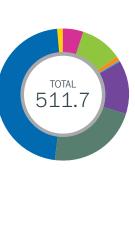


Income

Key

Other

Кеу	£M		
Residences and Catering	26.2		
Services rendered	52.6		
Endowments and interest receiveable			
Investment Income	5.1		
Donations and Endowments	1.6		
Funding Councils grants	68.0		
Research grants and contracts	113.6		
Fees and support grants	237.7		
Other operating income	6.9		

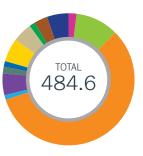


Research Grants and Contracts Income by Year: 2007 to 2016



Expenditure

Кеу	£M	
Academic Services	10.6	
Academic Schools	51.1	
Staff costs	277.7	
Staff Costs - increase in USS pension scheme provision	5.6 n	
Depreciation	26.3	
Interest payable	7.6	
Residences, Catering and Conferences	6.7	
Research grants and contracts 28.4		
Premises	23.2	
Administration and Central Services	6.4	
Other expenses	16.0	
Other services rendered	24.9	



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To request a copy of the Annual Review in large print format contact the Communications and Marketing team on 029 2087 0298, email: communications@cardiff.ac.uk

Comments and suggestions regarding this review are welcome and should be sent to Claire Sanders, Director, Communications and Marketing, communications@cardiff.ac.uk Cardiff University is a registered charity, no. 1136855

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2016 Our Year in Pictures

The only machine of its kind in Europe

This image is Professor Derek Jones' brain as scanned by the 3T 'Connectom' MRI scanner at the £44m Cardiff University Brain Research Imaging Centre (CUBRIC). The centre contains the best neuroimaging equipment in Europe and was officially opened by Her Majesty The Queen.

Put planet first, says founder of JoJo Maman Bébé

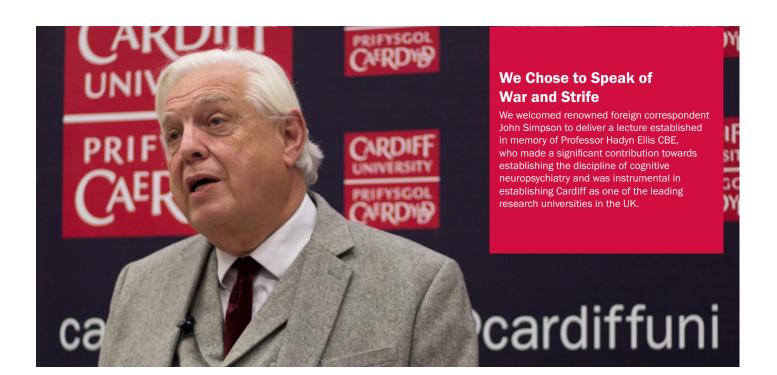
Laura Tenison MBE, founder of the Newport-based company, delivered our inaugural 'Home of Innovation' lecture. Ms Tenison told a public audience how business should be a force for good where success is measured not just by the money made, but through its contribution to society.



Go ahead for Innovation Campus

The latest phase of our £300m Innovation Campus was approved. Two new buildings will bring researchers, businesses, public sector backers and students together to unlock ideas that drive economic growth.

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£2m dental simulation suite opens

Cabinet Secretary for Health, Wellbeing and Sport, Vaughan Gething AM, learned how students studying at the School of Dentistry have access to a brand-new simulation suite, providing them with the latest equipment for practising all aspects of dentistry.

A Glimpse of China

To celebrate the new partnership with Xiamen University, Cardiff University Chamber Choir and the Xiamen University Arts Group performed a concert at the Reardon Smith Theatre.

Queen's Anniversary Prize awarded

Our leading mental health research facility, MRC Centre for Neuropsychiatric Genetics and Genomics, picked up the UK's most prestigious academic award at a ceremony in Buckingham Palace.

First Welsh university to receive Regius Professorship

The UK government's Cabinet Office Minister for the Constitution, Mr Chris Skidmore MP together with UK government Minister in Wales Lord Bourne, presented the honour to the University.

The title of Regius Professorship is currently held by Professor Graham Hutchings.

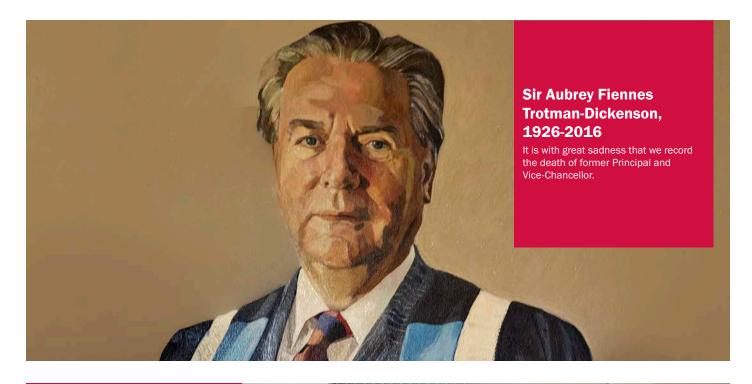




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Class of 2016

More than 6,000 students graduated in this year's ceremonies, becoming part of 145,000-strong alumni network in over 180 countries and gaining access to a whole host of alumni benefits. The celebrations welcomed approximately 30,000 people to Cardiff supporting the outstanding achievements and major accomplishments of our graduates throughout their studies.



University internships break new ground

We became the first University in Wales to take part in a major international project which provides employment and learning opportunities for young people with disabilities. Eleven Cardiff and Vale College students with learning disabilities and/or autism have been given internships with us as part of Project SEARCH, which started in the USA 20 years ago. Ours is the first of five proposed sites to be set up in Wales through Engage to Change.

