

Annual Review 2009



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A wide range of information about Cardiff University can also be found on our website at **www.cardiff.ac.uk**

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Schools of the University

Full information and contact details of our academic Schools can be found at the University website www.cardiff.ac.uk

Welsh School of Architecture
Cardiff School of Biosciences
Cardiff Business School
Cardiff School of Chemistry
Cardiff School of City and Regional Planning
Cardiff School of Computer Science and Informatics
School of Dentistry
Cardiff School of Earth and Ocean Sciences
Cardiff School of Engineering
Cardiff School of English, Communication and Philosophy
Cardiff School of European Studies
School of Healthcare Studies
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Cardiff Law School
Cardiff Centre for Lifelong Learning
Manufacturing Engineering Centre
Cardiff School of Mathematics
School of Medicine
Cardiff School of Music
School of Nursing and Midwifery Studies
Cardiff School of Optometry and Vision Sciences
Welsh School of Pharmacy
Cardiff School of Physics and Astronomy
School of Postgraduate Medical and Dental Education
Cardiff School of Psychology
Cardiff School of Religious and Theological Studies
Cardiff School of Social Sciences
Cardiff University School of Welsh



Vice-Chancellor's preface

Cardiff University has enjoyed another year in the forefront of international academic achievement. At a time of global economic challenges, the University has the confidence to invest in its future. This confidence is shared by the many partners keen to work with us on research, teaching, business ventures, public policy and community initiatives.

From the past year's evidence, large numbers of people see Cardiff University as an outstanding place for study, research and collaboration.

This endorsement is shown in many ways. There are the numbers wishing to study here. More than 33,500 people applied to join undergraduate courses last year and a record number of successful applicants achieved top grades. Demand for postgraduate places is also strong, with some 7,000 graduates now pursuing courses and research at Cardiff. We have just established the President's Research Scholarships, a multi-million pound package to help talented new researchers undertake challenging projects.

The University continues to enjoy the support of funding bodies, charities and business, prepared to invest in the excellence of our research. The last year saw a trio of major awards to create three new centres seeking new approaches to curing disease. A total of £4M was invested to create the MRC Centre for Neuropsychiatric Genetics and Genomics, £10M for the Arthritis Research Campaign Biomechanics and Bioengineering Centre and £2M to establish the Cardiff Cancer Research UK Centre.

Within a few months of the establishment of the MRC Centre, one of its members, Professor Julie Williams, was making worldwide headlines for a breakthrough in the genetics of Alzheimer's Disease.

Our international research partnerships cover the full range of our academic activity. Last May, the then First Minister for Wales Rhodri Morgan joined us for a live link-up to the launch of the Herschel Space Observatory, built by an international consortium in which the School of Physics and Astronomy took a leading role. The University has also strengthened links in Malaysia, China and the US, where we had a significant presence at Washington's high-profile Smithsonian Festival.

Honours and prizes are another strong indicator of the regard in which Cardiff University is held. Professor Graham Hutchings of the School of Chemistry was elected a Fellow of the Royal Society (FRS) for his work on gold catalysis. The FRS title is one of the highest honours in the academic world and Cardiff is proud now to have nine holders, the latest being the distinguished physiologist Professor Ole Petersen, the new Director of the School of Biosciences.

Another major award, a Queen's Anniversary Prize for Further and Higher Education, went to the Violence and Society Research Group.

This was particularly pleasing as the Prize recognised the Group's practical results in tackling violence with partners in the local community, as well as its research strength. The Group is just one of many examples of University studies benefiting public policy. Another is Professor Sir Mansel Aylward, knighted in the New Year's Honours List for a lifetime's service to public health and healthcare.

All these successes have been achieved in the face of an extremely difficult economic climate. As the annual accounts show, the University's own financial position is sound. We had an in-year surplus of £14.4M thanks to action by a large number of staff in reducing costs and maximising income. However, we must expect further cuts in Government higher education funding over the coming years. Further savings will be necessary if the University is to avoid a deficit.

Our innovation, education and investment will also play an important role in regenerating the economy. To that end, in March 2009, we joined forces with four other Welsh universities to make the St David's Day Declaration. We pledged to work together to help create a vibrant knowledge-led society and economy for Wales.



Our vision is to be one of the world's leading universities with an academic community recognised for its international distinction and impact.

One of the Declaration's commitments was to continue with ambitious capital investment programmes, which will bring direct benefits to the economy. Good progress has been made on many projects within Cardiff's own Campus Horizons programme, including the Cochrane Building for health students on the Heath Park Campus and the new extension to the School of Biosciences. An outline planning application has been submitted for our proposed new research campus at Maindy Park and we hope to make further announcements about this development very shortly.

Our commitment to sustainability is just as vital as our commitment to economic regeneration. The University's first-ever Sustainability Week, held in November, highlighted the wide scope of our research in this field, from waste management in the developing world to understanding the Earth's climate in the past. As an employer, our own successes in managing energy, water and waste were recognised in last year's Green League Table of universities.

Our vision is to be one of the world's leading universities with an academic community recognised for its international distinction and impact.

We reaffirmed this vision recently following wide consultation and the resulting University Strategy focuses on the key priorities that will determine our success. You will find the Strategy is a recurring theme throughout this Annual Review, underpinning all our activities and future plans.

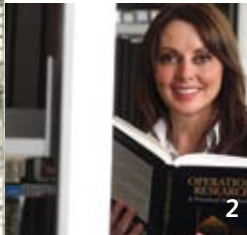
I believe Cardiff is as well positioned as any university in the UK to face the challenges of the coming years. My confidence is founded on the talent and dedication of our staff and students and on the co-operation and encouragement of our partners and stakeholders. May I close this preface by thanking you all for the enormous contribution you continue to make.

Dr David Grant CBE
Vice-Chancellor

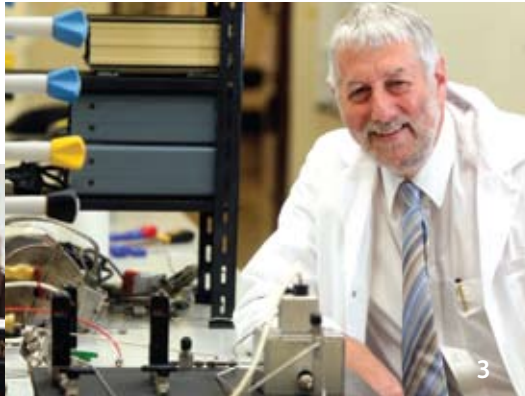
The year in pictures



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1

The University's Main Building celebrated the 100th anniversary of architect William Douglas Caroe's vision being formally opened on October 14, 1909 by the Earl of Plymouth.

2

Television presenter and Honorary Fellow Carol Vorderman opened the redesigned ultra-modern Trevithick Library, which features open study spaces, a wireless network and a modern computer bar.

3

Professor Graham Hutchings, School of Chemistry, was elected a Fellow of the Royal Society, second only to a Nobel Prize in prestige, for his pioneering work on gold catalysis.

4

Argentina's international rugby team geared up for a test clash with Wales by taking on the University team at Llanrumney playing fields in Cardiff as final preparation.

5

The Positive Health and Environment Week (PHEW!) saw some 1,300 University staff take part in more than 65 activities, including Professor Terry Threadgold, Pro Vice-Chancellor, Staff and Diversity.

6

Professor Nick Jenkins, School of Engineering, was appointed to lead a team researching sustainable energy supply by the UK Energy Research Centre.

7

The University's first Sustainability Week involved students, staff and the public in debating environmental issues and pledging to do more towards a sustainable future.



8

Professor Nick Craddock, School of Medicine, leading a major study into bipolar disorder, advised the BBC's *Eastenders* on its plotline about Stacey Slater's battle with the disease.

9

Professor Sir Martin Evans, 2007 Nobel Prize Winner for Medicine, took over as President of the University, succeeding Lord Kinnock.

10

The Wales Optometry Postgraduate Education Centre had a busy first year providing continuing professional development for optometrists and other eye-care professionals across the UK.

11

Cancer patients and charity fundraisers were among those attending the launch of the Cardiff Cancer Research UK Centre, a joint venture with Cancer Research UK, the Velindre NHS Trust and Cardiff and Vale University Health Board.

12

The School of Journalism, Media and Cultural Studies and BBC Cymru Wales launched a new bursary in honour of much-loved BBC Wales sports correspondent Bob Humphrys, for a postgraduate with a strong commitment to the media in Wales.

13

First year Biomedical Sciences student Heather Knight proved she is one of the rising stars in English Women's Cricket, being called into the England Women's Academy Squad for a training camp in Bangalore, India.

14

The then First Minister Rhodri Morgan joined staff and students at the School of Physics and Astronomy for a live link-up with the launch of the Herschel Space Observatory and Planck Surveyor, both carrying instruments worked on by the School.

For our students



Professor Jonathan Osmond
Pro Vice-Chancellor, Education and Students

The University's Strategy Map demands "an inspiring and enriching educational experience." This will be underpinned by world-leading research and scholarship, a culture of excellence and enhancement, and a vibrant and growing postgraduate body.

With this last aim in mind, the University has committed itself to growing the number of postgraduate students. We have recently launched the President's Research Scholarships, a £4M commitment to attract the very best in new research talent. Schools were encouraged to come up with research themes which would create exciting opportunities to tackle real issues facing society. Examples include climate change, multiculturalism, Welsh politics and law, sustainable food production, and advanced brain imaging.

A further objective of the Strategy Map is recognition and high regard from employers and professional bodies. The University is presently launching its Employability and Enterprise Strategy. We are working with the Students' Union and industrial and commercial advisers on how best to connect academic learning with career development.

We want to use work placements, volunteering, international experience, careers guidance and the curriculum itself to equip students with skills they can use straightaway in the workplace. The present financial climate makes this initiative all the more relevant to the Welsh and UK economy.

As in previous years, collaboration with the Students' Union has covered all aspects of student life and education at Cardiff. Officers of the Union are helpful contributors to discussion on major University committees. The Union makes an invaluable contribution to the life of our community in organising hundreds of sporting, cultural and volunteering groups.

One project we are initiating with the Union is designed to develop greater consistency and transparency in our assessment models across the University. We shall also set out to enhance the quality and timeliness of feedback on students' work.

At the Heath Park Campus, students are enjoying a transformation of their environment. The new lecture theatre building, opened last year, was followed this year with the opening of the IV Lounge coffee shop, creating a social area.

The third part of this strategy, the Cochrane Building, will offer library, teaching and simulation training facilities. Together, these three developments will create an identifiable 'home' area for health students at the Heath. The School of Medicine will also benefit from the new appointment of a Director of Medical Education, with responsibility for all aspects of the five-year medical undergraduate course.

All the above helps explain why Cardiff remains one of the most popular undergraduate destinations in the UK and among our peers in the Russell Group. Last year we received 33,526 applications for 4,417 places, up six per cent on the previous year. The percentage of applicants accepting a University offer as their first choice also continued to rise. We expect a similar high quality of applicants this year. We look forward to welcoming these talented students, along with our first President's Scholars, as they join the thriving student community at Cardiff.



When every student matters

Students' Union President Ed Carey highlights some of the achievements during 2009.

"One of the most important developments must be the constitutional review which has come to fruition this year. For the first time, the Union has a fully elected Student Council and its benefits are already being felt.

"This year, more student-run clubs and societies have been introduced; students' welfare continues to be supported academically, financially and socially through well developed networks, events and venues; and our members are still making a vital contribution to the local community.

"Further development of the Mall area of the Union has seen the addition of a fancy dress shop and hairdressers. This has created a real buzz around the Union.

"National and international ratings have continued to place the Union in the top tiers, coming fourth in the Times Higher Education Student Experience Survey, and in the top five of the International Student Barometer. We have also continued to receive great financial and administrative support from the University, enhancing an already strong relationship between the two institutions helping us both move forward in the years ahead."



Widening access

Raising aspirations and encouraging people from traditionally under-represented groups to go to university is a well-established part of the University's work. The University's Widening Access Manager, Annie Mitchell, explains some of the new ways the University is encouraging wider access to modern languages.

"The University works with more than 100 schools and some 400 pupils in all parts of Wales to raise awareness of higher education and inspire youngsters to think that university is 'for them'.

"Our 'Step-Up' to University scheme remains the key way to work with schools to encourage and inspire pupils. We have developed this further looking specifically at modern languages.

"In the last year, we've developed a new and comprehensive programme of languages activities for pupils from the age of 10 through to 17.

"A key part of this work has been working in partnership with the University's School of European Studies and CILT Cymru, (the National Centre for Languages) to develop online mentoring for class groups with video-conferenced language support sessions.

"In previous years our work has led to substantial increase in the numbers of pupils taking languages at GCSE and we hope this additional work will help increase this upward trend."



African aid

Sarah Bowden is one of the first medical students to receive a Dr Jack Matthews Scholarship. The new scholarships are designed to help medical students undertake athletic, medical or charity work.

"The Dr Jack Matthews scholarships provide medical students with the opportunity to do something really different. As a medical student, it can be difficult to find the time to get involved with outside interests – the fact that the University is actively supporting students to follow their passion is incredibly encouraging.

"The scholarship enables me to travel to the Nixon Memorial Hospital in Sierra Leone to help understand their health needs and the resources needed to run a rural hospital. I will also be working with the hospital staff to identify areas that could benefit from a link with the University Hospital of Wales.

"I hope to make a positive impact to the Nixon Memorial Hospital and its community and gain an insight into West African culture.

"I am sure, as a result of this scholarship, many more medical students will be proactive in arranging projects locally, nationally and internationally. Without this scholarship, I would never have been able to fund this project and I am extremely grateful to have been given this support."

Student statistics

One of the **top ten** universities in the Russell Group based on application numbers and the **15th** most popular university in the UK.

An overall applicant per place ratio of **6.6 : 1**.

4,112 student consultations with the Careers Service.

£1.5M received over three years to run the GO Wales Programme 'Skills for the Knowledge Economy'.

More than **25,000** students attended Students' Union events last year.

More than **1,000** students have been involved in student volunteering projects in and around Cardiff.

For the advancement of knowledge



Professor Teresa Rees CBE AcSS
Pro Vice-Chancellor, Research

The University's research strategy is to promote excellence, interdisciplinarity and internationalism, and to grow the numbers of postgraduate researchers and the capacity and skills of all our researchers. This year has seen some real progress with all five of these elements.

The University has decided to invest in a small number of new University Research Institutes. These will be groups of researchers from a range of Schools who have already achieved considerable international recognition. Our investment will help them to achieve even greater heights. The University has also secured a number of major research grants involving many Schools through its efforts to make fewer but bigger and better applications. For example, a team from six Schools saw off fierce competition to win a substantial grant from the Arthritis Research Campaign for a translational project that brings together bench scientists, medics, dentists and occupational therapists. Cardiff has been selected by Cancer Research UK to be one of their centres of excellence where they will focus their research investment. The Higher Education Funding Council for Wales, the Welsh Assembly Government and the Economic and Social Research Council are funding the highly innovative 'WISERD' – the Welsh Institute for Socio Economic Data and Methods. It will produce and analyse data that will have a far-reaching impact on informing evidence-based policy.

To promote our international links, the Research Committee supports schemes to facilitate staff to develop links with the best researchers in their field, wherever they are based. Colleagues can apply for co-funding to support them to visit universities abroad to work with colleagues there, or invite them over here. To promote interdisciplinarity, we support groups of researchers from different Schools who wish to develop a research network. There is clearly a growing interest in working with colleagues from other disciplines on broad themes.

The University is investing in opportunities for new generations of postgraduate researchers through the President's Scholarships scheme, named after Sir Martin Evans, the University's Nobel Prize-winning new President. While there is presently good support for early career researchers in the University, we are now developing more opportunities for developing new skills for established researchers, for example through training courses on research leadership.

Professor Julie Williams and her team identified genes highly significant for Alzheimer's research – one of the top ten scientific discoveries world-wide last year! Professor Williams is a member of the MRC Centre for Neuropsychiatric Genetics and Genomics, which won funding last year as the first MRC Centre in Wales. Professor Jonathan Shepherd and colleagues have been recognised for their work on violence with the Queen's Anniversary Prize. Despite these and other accolades, we are probably not as well known as we should be for our excellent research work. Hence a small group of distinguished colleagues is developing a strategy to ensure we nominate excellent staff for prizes and medals – and that we publicise those that we have more loudly!

Our research makes a significant impact on major challenges such as health, climate change, understanding society and culture and improving the quality of life in so many ways. However, research funding is increasingly difficult to win. We shall have to improve our game even more to remain competitive. Our research strategy is designed to ensure we remain a major contender.



Mental health

The Medical Research Council (MRC) last year awarded the University £2M for the creation of the Centre for Neuropsychiatric Genetics and Genomics, backed by a further £2.35M from the Welsh Assembly Government and the University itself. The Centre will build on Cardiff's existing strength in the genetics of brain disease, offer new postgraduate opportunities, and engage with the public in understanding these diseases, says Professor Mike Owen, Director of the new MRC Centre.

"Not only was the award recognition of our success and potential but I think it also recognised Cardiff University's strength in neuroscience and a feeling that a lot of the work that we are doing can be taken on by other departments to increase the understanding of psychiatric research.

"The research mission of the Centre really has two components. The first is to try and understand the genetics of psychiatric disorders and to try to identify those genes which predispose people to becoming mentally ill. The second is to try and use that information to help us develop better treatments and better approaches to diagnosis.

"The public engagement part of our mission is extremely important. We want people to understand that brain diseases are like other diseases, they should be approached like other diseases and they should be treated like other diseases. I think once we have started to do that, the stigma will start to vanish."



Energy challenges

Bettina Bockelmann-Evans is a lecturer in Hydro-Environmental Engineering at the School of Engineering. Support from her School and the University's Research and Commercial Development Division has helped her secure a number of high-profile grant applications.

"I am fascinated by the dynamic nature and unique aquatic environment of coastal waters and estuaries. Living right by the Severn Estuary, we have got an ideal test case and huge potential renewable energy source right on our doorstep. Using that energy source in a sustainable manner is a great challenge. My research aims to examine the environmental impacts of marine renewable energy schemes and how these can be minimised.

"The MAREN project which I'm involved in and am coordinating together with two colleagues is an EU project funded under the Atlantic Area Interreg programme. It's an international programme involving partners from the other four countries bordering the Atlantic - Ireland, France, Spain and Portugal.

"I hope that our research will support the implementation of marine renewable energy schemes around the Welsh and UK coastline and

that we can contribute to reducing CO₂ emissions and make use of this largely unused energy resource, causing the least amount of environmental impact.

"We are planning to publish our findings extensively, independently and together, with some of the other partners, both as research papers in international peer-reviewed journals as well as to the broad range of stakeholders involved in this huge potential growth market of marine renewables. Also, we are already planning the submission of further research grants within the EU FP7 programme together with the other partners. This needs long-term planning as these large EU research proposals are difficult to put together without projects like MAREN where a strong partnership between international partners can be developed.

"These large EU grants have often rather tight deadlines and as they are time consuming to put together, they require good team effort and a group of academics working together closely to have a good chance of being successful. The Research and Commercial Development Division's European team has a lot of experience of similar project proposals and were very helpful in putting ours together. Other researchers can make good use of the Division's help and expertise."

New grants & contracts – 2009

Total annual awards (research grants and contracts) secured was **£86.7M** in 2008-09. The 2008-09 total included **691** individual new awards, and the average new research award was **£125,000**.

Major research awards secured included **£4M** from the Department of Health for the Family Nurse Partnership.

The total value of contracts from industry increased by 7 per cent last year to **£4.7M**.

Signed **10** new Knowledge Transfer Partnerships (KTPs) designed to help businesses improve their competitiveness and productivity.

Set up **two** new Short Knowledge Transfer Partnerships (sKTPs) designed to focus on more tactical activity with business.

For our communities



Professor Ken Woodhouse
Pro Vice-Chancellor, Engagement

All of our engagement activities flow from our vision to be one of the world's leading universities - an academic community recognised for its distinction and impact.

This means that all engagement should flow naturally from our excellence in scholarship, research, learning, teaching and other areas, such as clinical skills.

Our engagement with the general public through the Community Engagement Team and the Beacon for Wales project has gone from strength to strength this year. A second wave of very diverse projects has been funded and a third is currently being assessed. I believe this has raised the profile of academic research and scholarship in a way which would not have been thought possible just a few years ago.

Work began last year and is continuing this year to look at how we can use our expertise to help professionals and individuals develop themselves. There are professional development initiatives in medicine, engineering, law and business, as well as more generic programmes of learning provided by diverse Schools, and the Centre for Lifelong Learning. These activities are an important way by which we can enhance the economy of Wales, providing a highly skilled workforce at all levels. Supporting and developing the outcomes of our research is equally important.

The merger of Fusion and IP in the last year will enhance the way we fund proof of concept work, start-ups, and protect intellectual property. We have many super examples of people working with industrial and commercial concerns, large and small, to develop valuable services and products.

We are a big University in the middle of our capital city, a position we take very seriously at all levels. Many of our staff work hand in glove with the Council, developing plans for moving forward the city and the region. On a more local level the work of our students, for example Student Volunteering Cardiff, is a real jewel in the crown of the University, helping huge numbers of people throughout south-east Wales.

As a Welsh institution, the School of Welsh has continued to promote understanding of the nation's language and culture, while the Welsh Governance Centre has played a leading role in the debate on the future of devolution. Internationally, we have many links with governments, corporations, universities, and institutions throughout the world. We are particularly strong in China and South East Asia but we are starting to look more closely at the United States. The Development and Alumni Relations office has been maintaining relations with alumni scattered throughout the world, with mutual benefit.

Looking at the new University Strategy Map, a statement near the top says "We encourage sustainability". Actually, Cardiff is one of the most prestigious universities, certainly in the UK and Europe, possibly in the world, for its sustainability expertise. Work is ongoing in Architecture, modelling new types of building, in City and Regional Planning on urban development, in Engineering on low carbon technologies. This expertise is recognised by the award of the Low Carbon Research Institute, a perfect example of how our research will have a major impact in policy and practice in the future. Internally, we now have a very good reputation on water and waste management, for which the Estates Division deserves congratulations.

We can be proud that Cardiff University and all of its people, are making a real impact across the board, helping our communities – local, regional, national, and international – meet the challenges of the 21st century.



Police policy and practice

Professor Martin Innes is Director of the Universities' Police Science Institute (UPSI) which develops the evidence-base for police policy and practice. UPSI has established a unique perspective on policing and the challenges of police reform.

It is unique in three key ways: it acknowledges that effective policing blends art, craft and science; it propagates a 'research-practitioner' role that actively involves police staff in generating research evidence to address key problems; and whilst UPSI works closely with the police, it remains independent from them, providing the degree of critical distance that is often needed in a contentious and increasingly politically-charged area of public policy.

"It is fair to say that UPSI's work has been influential regionally, nationally and internationally. We have been working very closely with the police in south Wales to help them to better understand and assess the neighbourhood security needs of individuals and groups in the region. Nationally, our work on radicalisation and counter-terrorism policing has been acknowledged as a key influence upon aspects of the Government's 'Prevent' strategy.

"We are also currently working with Her Majesty's Inspectorate of Constabulary helping them to understand how and why individual police forces differ so widely in relation to the ways that they respond to anti-social behaviour. Internationally, we have been working with police organisations in Australia and Holland to assist them in developing more citizen-centred styles of working.

"The research conducted by UPSI has been a key influence upon the drive to develop a move towards a more 'citizen-focused' style of policing. This involves enabling the public to have some influence upon how they are policed and establishing new forms of direct accountability between the police and communities. Importantly, in developing this approach we have been seeking to find ways to ensure that the policing services provided fit with the needs of a local situation.

"UPSI has pioneered an innovative community intelligence methodology, that uses social research methods to diagnose what crime and disorder problems are functioning as the 'drivers' of insecurity within and across different neighbourhoods.

"So rather than individual police officers assuming that they know what the public wants, or police organisations simply setting performance targets that reflect the current resources and systems they have in place, this approach starts by identifying what the key problems are from the communities' points of view.

"In south Wales for example, we have trained teams of Police Community Support Officers (PCSOs) from Swansea to Cardiff to implement this methodology. The PCSOs concerned have, over the past nine months, gone out and conducted more than 4,500 face-to-face interviews with members of the public to identify what they perceive to be the main problems in their neighbourhood. UPSI researchers have then been involved in analysing these data, alongside police recorded crime information, to determine where the 'pinch points' are for police interventions that can have a real impact upon how safe people are.

"Importantly, from a police point of view, when contrasted with other approaches it has been demonstrated to yield very rich and detailed information about what precisely is the problem and where it is located. It is this kind of detail that police need to intervene effectively and efficiently in a way that makes a real difference to the quality of life of individuals and communities."

“It is fair to say that UPSI's work has been influential regionally, nationally and internationally... our work on radicalisation and counter-terrorism policing has been acknowledged as a key influence upon aspects of the Government's 'Prevent' strategy.



China and the community

In June 2009, sixth formers from Cathays High School in Cardiff, joined staff and tutors of the Confucius Institute at the Centre for Lifelong Learning for a week of Mandarin and Chinese Culture workshops. The 20 hours of sessions included Chinese cooking, Chinese music and dance, Tai Chi and Chinese Calligraphy. The language and culture sessions were developed as part of the 'Wales, Europe and the World' component of the Welsh Baccalaureate, which all sixth formers undertake at Cathays High School in Cardiff.

The Cathays 'China Week' is one of a number of schools programmes run by the Confucius Institute as part of a pan-Wales initiative to develop Mandarin and Chinese culture programmes for both primary and secondary schools.

The 'Wales China Schools Project' is funded by Hanban, a Chinese Government organisation and the Welsh Assembly Government. The project, developed and based at Cardiff involves collaboration with Lampeter Confucius Institute, British Council Wales and CILT Cymru – the national body for excellence in languages for Wales.

Under CILT Cymru's guidance, a number of programmes have been developed and piloted with Cardiff schools. Similar programmes are also being developed in Swansea, Carmarthen and Ceredigion. More than 15 China Weeks have already taken place this academic year in primary schools across Cardiff. They have provided children from six to 11 the chance to explore China and its language.

The China Weeks are bolstered by a number of after school Mandarin classes for both primary and secondary school children.

Last summer's Welsh Baccalaureate China Week at Cathays was so successful that the school has since developed three further Welsh Baccalaureate Mandarin programmes with the Confucius Institute, all involving sixth formers from a broad multi-ethnic range of backgrounds.

The China Week programmes have been closely supported by the Chinese Embassy and discussions are currently underway with WJEC and CILT Cymru to look to provide accreditation for some of the programmes that are pioneering the value-added development of the Welsh Baccalaureate in Wales.

Powerful model for innovation to boost Welsh economy

In early 2009 the Welsh Assembly Government, European Aeronautic Defence and Space (EADS) and Cardiff University launched Foundation Wales, a new tripartite collaborative undertaking intended to boost early-stage research and development in Wales. Breaking new ground in knowledge exchange, it defines an entirely novel approach to how UK universities, business and regional government can work together for mutual benefit.

Gary Clayton, Foundation Wales Manager at EADS, explains why the partnership with the University and Welsh Assembly Government is important and how the collaboration is already providing significant benefits for all partners.

"Innovation is not just about technology, vital though that is. We need to innovate the engagement process between willing partners and we have found that willingness in Wales. In collaboration with the Welsh Assembly we designed an effective governance process that enabled EADS and the Welsh Assembly to invest in defined areas of strategic technology, with Cardiff University fulfilling a highly significant role in representing academia throughout the formative and structural discussions.

"There is no doubt that this initiative represents a real live example of the drive to put innovation and technology at the heart of economic revival. The Welsh Assembly is committed to building a knowledge economy and this programme demonstrates that commitment. If we can genuinely fuse the interests of government, business and academia

into the development of intellectual property exploitable by industry then that should be a blueprint for wealth creation. Fundamentally we all have the same basic interests.

"In 2010, the Foundation Wales collaboration will evolve into a not-for-profit company. A range of R&D programmes supported by the Foundation are already under way in laboratories in Cardiff and other Welsh universities, with corresponding activities ongoing in parallel in EADS group companies. These projects include 'VULCAN', aimed at developing the next generation of intelligence support management systems for both military and blue light services, and 'APOLLO', a programme based in Cardiff School of Psychology which will input to the next generation of lie detector technologies."



Digging for knowledge

Jane Stewart, a project officer in the School of History and Archaeology, and Community Archaeologist, was instrumental in successfully securing Beacon for Wales funding for the public engagement initiative, 'Our Place in the Future: Reclaiming Our Past'. Aimed at providing opportunities for young people aged between 14 and 19 to join the University excavation team, together they have been investigating the medieval manor house site at Cosmeston.

"A measure of its success is the fact that from our point of view the tables have turned on us – in a good way. We set out to teach the young people about how exciting archaeology can be, but we ended up learning so much from them about the value of both the subject and skills it develops. By involving them in digging and finds processing, and recording their experiences using a Dig Diary, we have been able to appreciate what they really want to know about, and how to make our project work for the community. I believe this is the true essence of great public engagement.

"Since starting the dig, more than 25 young people from schools in Cardiff and the Vale of Glamorgan have been getting 'hands on' with history, and learning about archaeology, the site and local history – some are even considering a future career in archaeology!

"We are now in the process of using the knowledge and experiences of even more young people to help us develop an Archaeology Discovery Box which will be made available through the Vale of Glamorgan Council for loan to community groups, and local schools.

"This project has been hugely successful and the experience has been exceptionally positive for both the schools and the University students. School pupils benefited from close contact with HE students, talking and learning about life at University. University students appreciate how they could and should pass on their knowledge and practical skills to the pupils, and several expressed interest in educational careers. There was a clear growth in confidence and skills for both groups.

"Longer term, the project will impart to staff a stronger, experiential understanding of how to disseminate research discoveries, the excitement of discovery, and motivation to get involved in education and projects, with a public beyond the walls of the University."

Colin Johnson, former chair of Techniquet and Chair of the Beacon for Wales' Judging Panel explains why the project was worthy of funding from the Beacon for Wales Project:

"The panel was impressed with the clear focus on the needs and interests of the public for this project, with its evident practical appeal, and its intellectual range. The potential for making a real impact is high."

Engagement figures

Cardiff University puts on around **100** events, reaching an audience of approximately **150,000** people each year.

16 Beacon for Wales projects have been funded to a total of more than **£200,000**.

Successful projects cover wide-ranging disciplines from music and mathematics to astronomy, genetics, earth sciences and many more.

More than **1,000** students have been involved in student volunteering projects in and around Cardiff.

Joint working arrangements were signed with Dŵr Cymru and Mott MacDonald, designed to share expert knowledge and research.

More than **150** local businesses have been contacted through the Cardiff University Innovation Network (CUIN).

People and organisation



Professor Terry Threadgold
Pro Vice-Chancellor, Staff and Diversity

The past year has seen the University's commitment to its staff recognised in a number of ways.

The University won Bronze Athena Swan status for its work in providing a university-wide context within which to encourage women into science, engineering, medicine and technology. That was a great success but we need to maintain and improve what we are doing to keep that status, while four individual Schools are now aiming for individual Silver awards.

We also were rated 101st in the UK in the Stonewall Workplace Index for Lesbian, Gay, Bisexual and Transgender workplace experience. That was third for any higher education institution nationally and an improvement from 159th place last year.

Both awards are a useful indicator of where we are and where we need to go. That will feed into the work on our continuing Positive Working Environment strategy under its three themes – communication, equality and diversity and building management capacity. At the centre of all of this is the health and wellbeing of all University members.

The most significant work has developed from the Staff Attitude Survey conducted at the end of 2008. We worked with the Lean Team last summer to understand and prioritise what needed to be done as a result of that and work is now going on across the University to ensure that we deliver what people asked for.

Under equality and diversity, I think we have seen some significant developments in the past year. We are supporting the establishment of quiet rooms for contemplation, following the establishment of a Religion and Belief Policy. In Estates, a group has been set up to improve access and to liaise with disabled staff and I'm getting very positive feedback from that. We have reviewed and revised the University-wide disability scheme and have a much better sense of the range of staff we need to look after. We have created new staff networks, including one for Welsh speakers and one for those with caring responsibilities.

On communications we identified and achieved some 'quick wins'. One is the new staff e-newsletter *Blas*, on which we have already had some excellent feedback. We are running focus groups on our communications strategy, which will involve some 300 members of staff over the next few months.

Much of building management capacity is about training. We have a new programme on strategic management which is now in place and will help drive existing programmes of management development and research team leadership.

A great deal of excellent work is going on in this area and it has really begun to change the way staff experience their working lives and to deliver a more consistent experience across the University. Over the last three years these programmes have helped to break down divisions within the University, building new networks and communities.

Last summer saw our first Positive Health and Environment Week, or PHEW! I have to say it was hugely successful. A small team pulled off a week of extraordinary events, with something like 1,300 staff involved. There is now a commitment to keep this going every year, as part of our central commitment to the health and well-being of staff.

One other change this year is that my title has changed from Pro Vice-Chancellor, Staff to Pro Vice-Chancellor, Staff and Diversity. This was to highlight in the title that the University is completely committed to equality and diversity in relation to both its staff and students.

The last year has been a real success story in delivering what the Staff Attitude Survey asked for. By the time of the next survey I think we will really be able to see a difference.



Learning to manage

Professor Claire Gorrara is Professor of French Studies in the School of European Studies and Director of Research and a recent graduate of the Practical Leadership for University Management (PRACTL) course. She is responsible for leading on the School's research strategy, above all in relation to research grant activity, and mentoring and support for research-active colleagues. She is also co-coordinator of the cross-School University research network Crime Narratives in Context, which promotes the development and dissemination of research relating to the production, transmission and reception of narratives of crime in the Humanities and Social Sciences.

"I decided to follow the Leadership and Management course as I had been newly promoted to Professor and been appointed to the post of Director of Research. This was a considerable management step change for me as I had not previously held a cross-School position with strategic responsibility. I felt that I would benefit from developing my own leadership and management skills as a student on the course and also from networking with others in similar

management roles who could offer insight into and support for University management.

"The course itself was extremely productive. I found that I learnt much from the 'academic' work on the course and how to support and promote best practice in management terms. I also came to recognise and understand more about my own management and leadership styles and how best to develop my own strengths and address areas where I was less confident. The project work in the final phase of the course was also very helpful. I chose to report on the research mentoring scheme which I was currently introducing into my School.

"The opportunity to reflect on a project in development and the lessons learnt was valuable and certainly gave me a sense of the progress I had made as a leader and manager over the course of the PRACTL training. Overall, the course gave me an increased confidence in my ability to manage and lead; a greater sense of the management options available to me in a given scenario; valuable networking with like-minded colleagues within the University; and professional career development and a greater sense of the potential career paths available in University management and leadership roles."



Women in science

Dr Cathy Holt, School of Engineering specialises in Biomechanics, 3D Motion Analysis techniques, Human Movement: Measurement, Modelling Techniques and software development, Biomechanical Testing and Knee Joint and Implants. She is a member of the WISE (Women into Science, Engineering and Construction) committee and was part of the working group that helped prepare the submission for the Athena Swan Award.

"The Athena Swan Award is a national accolade that recognises the University's success in recruiting, retaining and promoting women in Science, Engineering and Technology. Cardiff is one of only 19 universities nationwide to have been awarded a prestigious Bronze Award of 2009 under the Athena Swan Charter for Women in Science.

"One of the major benefits of the award is that it raises awareness of the initiatives that the University has in place to help support equality and diversity. Initiatives such as flexible working hours, equal pay reviews, training and development policies and the sexual orientation policy represent Cardiff's commitment to academic excellence and to equality of opportunity and inclusiveness.

"The Award is also an indication of Cardiff's commitment to the visibility of women in the workplace, particularly in the image that is presented to the public. The School of Engineering is a particularly good example in this respect. Female staff from the School are actively involved in engagement events aimed at encouraging girls as well as boys into science, engineering and technology careers."

Positive Working Environment facts and figures

250 members of staff have received awards at Recognition of Service celebrations for their 25 or 40 years service at the University.

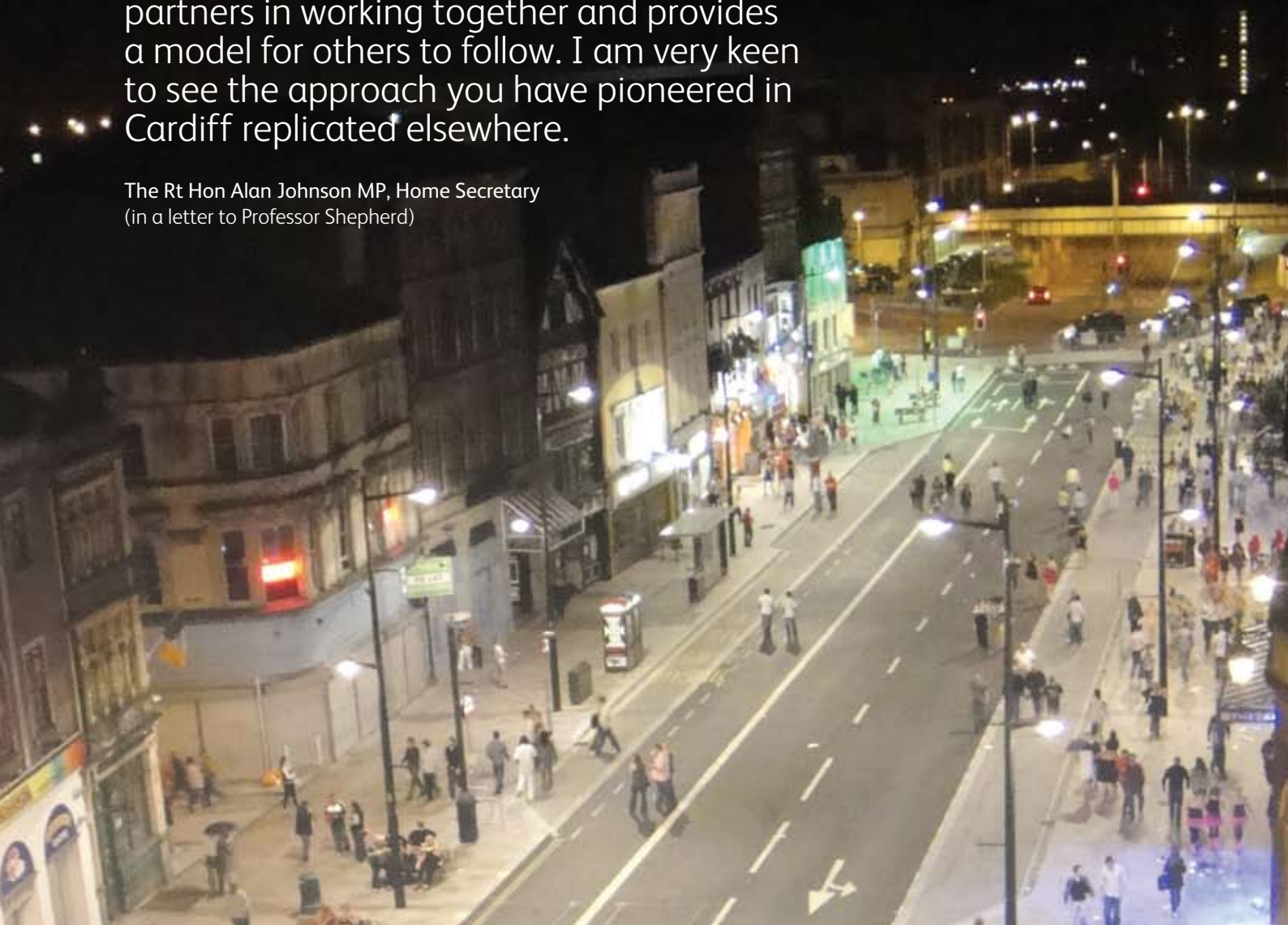
96 members of staff have enrolled on the Leadership and Management Development Programme for Research Team Leaders and **83** have enrolled in Practical Leadership for University Management since their introduction in 2007.

More than **100** local and national discounts are now available for members of staff to use, allowing concessions on items and services such as vehicle hire, gym membership, shopping and dining out.

Approximately **500** members of staff participated in the mock assessment exercise for Investors in People, providing the University with a significant data set to further complement the information collected during the Staff Attitude Survey process.

“Your inspirational leadership of this approach has clearly been key to engaging all the right partners in working together and provides a model for others to follow. I am very keen to see the approach you have pioneered in Cardiff replicated elsewhere.

The Rt Hon Alan Johnson MP, Home Secretary
(in a letter to Professor Shepherd)



Partnership and community

The Strategy Map seeks collaborations with others to enhance the University's contribution locally and internationally. An outstanding example is the Violence and Society Research Group, winner of a Queen's Anniversary Prize for Higher and Further Education for its work tackling late night disorder with local partners and for the international excellence of its research. The Group has been a world leader in studying the causes and consequences of violence for more than a decade. Those achievements have now been recognised this year with one of the highest accolades in higher education.



The findings of the Violence and Society Research Group have been translated into practical action to tackle late-night injuries in city centres.

A key part of winning the Award was the Group's work in setting up the prototype Crime Reduction Partnership in Cardiff in 1996. Academics, health professionals, South Wales Police and Cardiff Council worked together to identify violence hot-spots. In this period, Cardiff became the safest city of its size in the UK. Following Government legislation, many other communities have now adopted Cardiff's partnership model, now known in Wales as Community Safety Partnerships.

Other key achievements by the Group, which includes academics from the School of Dentistry, Medicine, Psychology and Business, are:

- Use of anonymised Accident and Emergency data to identify trends in late-night violence. This is used by Community Safety Partnerships and in the Group's annual national violence survey.
- New programmes of care for violence victims at every stage of their treatment, including a new service for post-traumatic stress.

- Identifying risk factors for violence – including crowd movements, levels of CCTV surveillance and the price of alcohol.
- Research on 'glassing' injuries which has led to the introduction of toughened glass and plastic vessels in pubs and nightclubs.
- Research leading to the creation of the Universities' Police Science Institute – a collaboration between Cardiff University, Glamorgan University and South Wales Police, which combines practical policing research with police training.
- International policy development for the World Health Organisation Violence Prevention Alliance.

In a letter to Professor Shepherd, The Rt Hon Alan Johnson MP, Home Secretary, said: "Your inspirational leadership of this approach has clearly been key to engaging all the right partners in working together and provides a model for others to follow. I am very keen to see the approach you have pioneered in Cardiff replicated elsewhere."



Violence and Society Research Group – core members

Professor Jonathan Shepherd CBE (Director), School of Dentistry
 Dr Simon Moore, School of Dentistry
 Dr Vaseekaran Sivarajasingam, School of Dentistry
 Dr Jonathan Bisson, School of Medicine
 Professor Pamela Taylor, School of Medicine
 Professor Kent Matthews, Cardiff Business School
 Professor Robert Newcombe, School of Medicine
 Professor Stephanie van Goozen, School of Psychology
 Dr Peter Morgan, Cardiff Business School
 Dr Iain Brennan, School of Dentistry



Tributes

"I would like to congratulate heartily Professor Jonathan Shepherd and his team because their work has made a real difference to so many people who live in and travel to the capital city of Wales to enjoy its attractions by night and day."

The Rt Hon **Rhodri Morgan AM**, former Welsh Assembly Government First Minister

"The University Violence and Society Research Group has been one of the key members of the Community Safety Partnership and together we have made great strides in tackling city centre violence and making Cardiff city a safer place."

Former South Wales Police Chief Constable **Barbara Wilding**

"The partnership of the Group which has seen health, the police and ourselves working closely together with licensees and academics to tackle violent crime has made our city safer for everyone and it is fantastic this success is being acknowledged."

Cllr Judith Woodman
 Cardiff Council Executive Member for Communities, Housing and Social Justice

"This is an excellent example of partnership work, with the University and the Health Board working alongside local authority and police partners to make our streets safer and in supporting victims of violence and improving protection for staff from aggressors."

David Francis, Chair of Cardiff and Vale University Health Board and All-Wales Champion for reducing violence and aggression against NHS staff

Estates and information infrastructure



Professor Malcolm Jones
Pro Vice-Chancellor, Estates

The Campus Horizons programme of capital investment has continued to progress over the past year.

While there are three main flagships to the programme, there has been quite a lot of other work around the Campus. With regard to 'learning and teaching' – there has been significant investment in many of the teaching areas and lecture theatres. The Students' Union building has seen investment over the last 18 months in new dual purpose facilities.

A £4M extension to the School of Biosciences is due to commence, whilst the Positron Emission Tomography (PET) scanner facility at the Heath is nearing completion. The latter will be a very important piece of research equipment, the first of its kind in Wales, simultaneously offering imaging services for NHS patients.

The library programme has progressed very well. The newly refurbished Trevithick Library is a wonderful example of what can be achieved – a nice airy facility for learning and study which students have greatly appreciated.

To return to the three flagships. The 9.5 acre Maindy Park site is an area of infrastructure development which is key to the future of the University. It is our main opportunity over the next ten years to create new facilities to support our key areas of the research portfolio.

A development plan for the site is currently being considered by Cardiff Council. The first building on the site: the 'Gateway Building' will be exactly 'what it says on the tin'. It will be the entrance to the research site whilst offering core key facilities, it will provide the public face for the research campus with lecture and exhibition facilities. It will also include 'wet and dry' laboratory space for those strategically important areas of research in which the University wishes to make continued progress. One very significant move will be the 'housing' of the new MRC Neuropsychiatric Genetics and Genomics Centre there, supported by a very large £1.75M grant from the Wolfson Foundation. This will provide a very suitable setting for the first MRC Centre in Wales.

On the Heath Park Campus, work is just starting on the 'Cochrane' Building, named after the internationally renowned medical pioneer, Archie Cochrane, who worked in the NHS and the University in Cardiff. This building will provide a much needed 'home' for the School of Medicine, also housing new simulation teaching facilities which can be used widely in all health disciplines. The main health library will transfer from the University Hospital of Wales building into a very modern facility, and there will also be a postgraduate unit in partnership with Cardiff and Vale University Health Board. Work is just starting on the building with a planned build time of approximately 18 months.

The third flagship, the Modern Working Environment continues to roll out across the University, transforming access to IT services – of course, one of the aims of Campus Horizons is to connect the physical and virtual environments. The virtual world will be very important in all of the major new constructions. For example, state-of-the-art simulation facilities will be at the heart of the teaching centre in the Cochrane Building whilst its new library will reflect the way access to health information has changed in the 21st Century.

In the present economic climate, Campus Horizons will take longer to complete than first envisaged. That said, it is to the University's great credit that it has committed to the three flagship projects and to the long-term programme. It is important that we do so, because only by investing in our infrastructure can we take maximum advantage of the opportunities of the next decades.



Campus Horizons

The University Strategy Map pledges to

- Develop distinctive physical and virtual environments that foster cohesion and excellence for staff, students and collaborators.
- Develop further an information infrastructure including 21st Century IT and library provision.

To that end, the University has launched Campus Horizons – a series of ambitious and sustainable building and IT projects which will transform the academic environment.

They include:

Maindy Park

60,000 square metres of new research and public access space.

School of Biosciences

A £4M extension on the south podium to provide new student facilities.

The Cochrane Building

6,000 square metres of library, seminar and services for healthcare students on the Heath Park Campus.

Positron Emission Tomography Imaging Centre

A major new scanning facility for medical research, part of a £16.5M Welsh Assembly Government-funded project with the NHS.

Modern Working Environment

A new gateway to on-line services, available to more than 30,000 University users.

The Cochrane Building

Named in honour of the late Professor Archie Cochrane, a pioneer in medical science at Cardiff, this building will offer facilities for all five healthcare Schools on the Heath Park Campus.

Features will include:

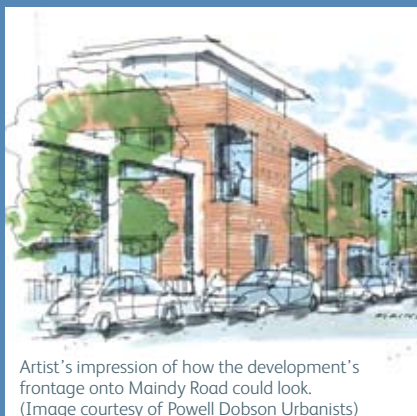
- A new library, integrating the present Duthie and Ty Dewi Sant facilities
- Modern clinical skills and high-tech simulation laboratories
- Postgraduate teaching areas
- Seminar space
- Wireless access to on-line services
- Student support services.

One function of the new building will be to provide a home space for students on the Heath Park Campus, along with the new lecture theatre building and IV Lounge, both of which were launched nearby in 2009.

The new Centre is a particular strategic key for the School of Medicine. It will give the School a 'front door' and meet most of the day-to-day needs of its students.

The increased opportunities for contact between the different healthcare disciplines will also create new opportunities for interprofessional learning and future professional collaborations.

The building aims to reach the highest standard of environmental excellence, making use of natural ventilation and lighting and other sustainable features.



Artist's impression of how the development's frontage onto Maindy Road could look. (Image courtesy of Powell Dobson Urbanists)

Maindy Park

Maindy Park is a cornerstone of the Campus Horizons project.

A former railway site, the land, just north of the School of Optometry and Vision Sciences building, has been disused for some years. Now, it is set to find new life as an academic campus.

A planning application has been submitted for the Park, which, if approved, would be a phased development of buildings for research, postgraduate teaching and showcasing the University's academic excellence.

The buildings, in six or seven stages, would provide some 60,000 square metres of new space.

There would be a particularly strong emphasis on interdisciplinary working, with space for new research initiatives to start up and grow.

The development would be in a pleasant, green, parkland setting, which will also be accessible to the public. The community will be encouraged to get involved in the research process, as the issues to be tackled in the Park will be of great public concern.

The development would also be sustainable, with all buildings meeting the highest environmental standards, using large central atria to make the best use of natural light and heating.

The first proposed building has been named the Gateway Building and would be opposite the School of Optometry and Vision Sciences. A prestige, high-quality development of around 10,000 square metres, the Gateway would contain highly sophisticated laboratory facilities and associated write-up space. There would be meeting and interaction space to promote interdisciplinary collaboration. The central public atrium would be used for exhibitions and demonstrations of University research. The Information Services Directorate would provide advanced services to support the building's research community.

Modern Working Environment

The University's Modern IT Working Environment (MWE), offers a personalised information technology service to staff and students.

MWE was developed in response to the high expectations among staff and students for immediate access to personalised information resources and networking tools, on and off campus. It provides secure and personalised access to Cardiff's content and services from anywhere, at any time via a variety of devices. Working with partners IBM, an entirely new eco-friendly and resilient IT infrastructure was constructed and is now available to more than 30,000 University users.

Users of the MWE can access their personal file space, shared files and electronic journals whether on or off campus, from their own laptops or Macs, in internet cafes or on a BlackBerry. Students are able to access coursework and lecture notes in the institutional virtual learning environment.



Positron Emission Tomography Imaging Centre

The development of the Wales Research and Diagnostic Positron Emission Tomography (PET) Imaging Centre on the Heath Park Campus is taking Cardiff to the forefront of medical imaging technology.

Led by the University in partnership with Cardiff and Vale University Health Board, the project is funded by a £16.5M investment from the Welsh Assembly Government. Housed in a purpose-built building on the Heath Park Campus, it will be a state-of-the-art research facility and also offer NHS patients scanning facilities not currently available in Wales. The Centre's pre-clinical scanner was commissioned for research purposes last year.

The scanner will enable cutting-edge research in the medical, biological and life sciences. These will lead to better understanding of biological processes and structures; new clinical, diagnostic and therapeutic strategies; earlier detection of disease; and, ultimately, more successful results for patients. It will offer three different types of imaging: Positron Emission Tomography; Single Photon Emission Computed Tomography; and X-Ray Computer Tomography.

School of Biosciences extension

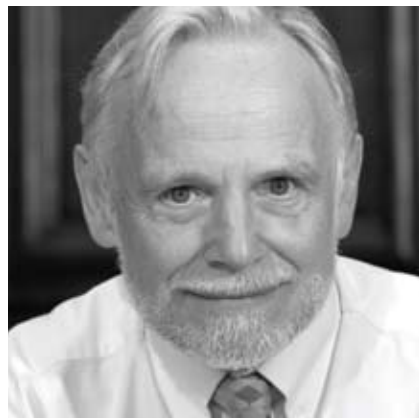
The £4M extension to the School of Biosciences will be striking in look and the facilities it offers.

The unique multi-coloured hexagonal façade on the School's south podium will be eye-catching, reflecting the School's work in understanding the molecular structures of nature. It will create a new main entrance to the School, along with a spacious foyer, refectory, seminar rooms and an administrative hub.

The two-storey extension has been designed by Rio Architects to be in keeping with the surrounding architecture of the University and Cardiff's civic centre. Due for completion in late 2010, the building will be student-focused, offering undergraduates easy access to all facilities. The extension will also free up space further inside the building for teaching and learning.



Investment



Professor Peter Blood
Deputy Vice-Chancellor

The University seeks recognition by the communities it serves for the excellence of its activities, teaching, research and knowledge transfer, and its investment priorities are set by its academic plans to realise this aim.

Last year, for the first time, these priorities were set through the Academic Strategy Committee, guided by the Strategy Map of the University. As a result the University continues to support some key projects while also embarking upon exciting new developments.

There is continued investment in information technology, in particular in the Modern Working Environment which gives staff and students access to the University's IT facilities via the web from anywhere in the world. The last year has also seen implementation of Project Arian, a major project uniting some of the disparate administrative processes into a single system. We continue to invest in the ARCCA supercomputer and its support team, and in my discussions with the ARCCA Director, Martyn Guest we have been anxious to ensure that our postgraduate students are able to have access to this machine, and for it to be used in undergraduate projects. Provision of High Performance Computing facilities accessible to all disciplines remains a priority for the University.

Investment was approved for the Cochrane Building on the Heath Park site which will provide a front door for the School of Medicine as well as teaching and library space incorporating the Heath Library.

The University has also allocated about £4M to the new President's Research Scholarships scheme which will fund postgraduate studentships for a range of multi-school projects. This recognises the contribution which students make to research in the University and the priority for us to train the next generation of research staff, not only for academia, but for public bodies and commercial organisations.

Also on the research front, the University has made the significant strategic decision to invest in a small number of University Research Institutes (URI) where we feel we have or can gain global recognition for Cardiff. We want these to be pinnacles of excellence which are visible to the whole world. The University is already investing in a Catalysis Institute in Chemistry and the request for proposals for URIs generated responses from 18 groups. After working up full proposals for the short-listed bids the University will soon be announcing establishment of three URIs.

One challenge for the University in recent years has been to find ways of supporting academic activities which do not map readily onto its organisation into academic Schools, and I refer not only to provision for multi-School research projects but also to Graduate Schools, the Graduate Centre and the Cardiff Humanities Research Institute.

To address this challenge the University has approved investment in the landmark Gateway Building, to be built as the first phase of the development of the Maindy Park site. In addition to housing these cross-School research and support activities it will provide a 'gateway' through which University staff can bring research collaborators and sponsors to present and promote their work, matching high quality research to a high quality meeting and social environment.

Although our ability to invest will be tempered by the response of funding councils, research councils and industry to the economic climate, we expect to be able to see through our plans over the next few years. However, it is important for the University to diversify its sources of income, in particular to build its income from private sources, alumni and sponsors. One striking example which shows just what can be done has been the donation by Yousef Jameel to support postgraduate studentships in the Cardiff Centre for the Study of Islam in the UK. Not only is this welcome 'income' but it is income which addresses all three key strands to the University's objectives: it supports our students to advance knowledge which will benefit a multicultural global community. Cardiff at its best!



Project Arian

When Project Arian went live in December 2009, it was the culmination of more than two years work on a new integrated financial system for the University.

The University had four automated systems for financial and research management, supplemented by a myriad of non-automated systems in different Schools and Divisions.

In 2007, a decision was taken to create a single on-line system for the entire University. The tender was awarded to Oracle to implement their e-Business Suite, used by a number of other leading universities. A steering group was set up under the chairmanship of the Deputy Vice-Chancellor, Professor Peter Blood. Key users and champions for the new system were identified across the University. By the time the system went live, some 150 people were involved in its implementation.

The reasons for the change were the withdrawal of support from current systems as well as creating more efficiency and smoother running of processes such as ordering and purchasing. It means there is one financial system in the University leading to efficiencies in areas such as training staff, as there will only be one financial system to learn.

Scott Allin, Financial Controller, said of the system's first few months: "The feedback we have had is that while there are the expected teething problems, the main processes work as expected. We are now working with Schools and Directorates to identify further support and training requirements, to ensure that the system beds in throughout the University."

The next project will be to extend Oracle to human resources and payroll operations.

Philanthropic giving

Philanthropy has a vital role to play in supporting the University in its mission to pursue research, learning and teaching of international excellence and distinction. John Robertson, Director of Development and Alumni Relations Division explains why, during these difficult economic times and with significant changes in government funding, donating to higher education is even more important than ever.

"The University is a registered charity and one which ensures that 100 per cent of every gift it receives is directly allocated to the cause to which it was given. Using the Inland Revenue's Gift Aid and Transitional Relief schemes, we can also help make gifts go 28 per cent further, at no extra cost to our donors.

"Additionally, this year, philanthropic giving in higher education has received a boost as the result of a three year Matched Funding scheme launched by the Welsh Assembly Government. The scheme enables the University to accrue significant additional income against philanthropic donations it receives through the Development and Alumni Relations Division.

"Philanthropy really does make a difference. The articles and stories overleaf highlight just some of the ways in which the generous donations we received last year from our alumni, friends and supporters enabled some incredibly diverse and important projects to be achieved."

Philanthropic figures

Last financial year we raised more than **£3M**.

We have more than **150,000** alumni in every continent in the world.

Since the Development and Alumni Relations Division was established in 2006 more than **£2.75M** has enabled our academic Schools to undertake projects.

To date nearly **1,000** individuals, companies and trusts have made donations.

More than **1,100** alumni have attended social or networking events in the past 12 months.

More than **300** students have benefited from scholarships, bursaries and prizes as a result of donations from our supporters.

We recently received our largest-ever single individual donation of **£245,000**.

As part of our Cardiff Alumni Programme, graduates can enjoy access to the University's sports and library facilities.

Our new online community allows alumni to find old friends, search for jobs and network as well as post their details and latest news. Visit www.cardiff.ac.uk/alumni.



Scholar helped on a journey for life

Final year student Sebastian Page, who is studying for a BSc in Business Management at Cardiff Business School, became the recipient of a scholarship programme set up by a generous group of Hong Kong alumni. The Hong Kong Alumni Association Scholarship rewards excellence among Hong Kong domiciled students studying at undergraduate level at Cardiff University.

"Being the first recipient of the Scholarship is a real honour for me. I was born and raised in Hong Kong to Cardiff parents, so consider myself to be a truly international production, yet face the same financial worries as many other students. Winning the scholarship has taken some of those concerns away, and I have been able to focus on my studies, and hopefully on securing a good career back in Hong Kong once I graduate.

"My grandfather was an alumnus of Cardiff University who went on to become Director of Waterworks in Hong Kong. This time next year I too will become an alumnus of the University. I hope I'll be able to become an ambassador in Hong Kong for the University, keeping up the growing connection between Hong Kong and Cardiff.

We believe this is a lifelong journey, and we hope to help more students like Sebastian.

"This scholarship will offer many more future undergraduates the same opportunities I have been afforded by the generosity of past Cardiff University students."

Andrew Sum, Chair of the Hong Kong Alumni Association, said:

"We are a strong association of Cardiff Alumni which firmly believes that the existence of our Association should not only be for social reasons but also one which focuses our members' attention to a greater cause. The establishment of a scholarship made perfect sense and we hope it offers another form of recognition to current Hong Kong students as an affiliated entity to the University.

"All our members are keen to encourage all the students from Hong Kong, not just the recipient of the scholarship, to share our vision of extending our learning experience beyond University and continue to learn in many ways together as a group. We believe this is a lifelong journey, and we hope to help more students like Sebastian."



Jameel Scholarships

Mustafa Hameed, an MA student in the University's Centre for the Study of Islam in the UK has much to thank one particular University benefactor for.

As a result of the new Cardiff University Jameel Scholarship Programme, established by a donation to the University by Mr Yousef Jameel, Mustafa is one of eleven Cardiff students who, over the next three years will be able to fulfil his ambitions while studying Islam in the UK.

"My real passion and dream has always been to continue with academia. However, before the Scholarship I wouldn't have been able to afford to do this, so in many ways when I got selected for a Jameel Scholarship it really was a dream come true. I certainly count myself among the very fortunate.

"I am particularly drawn to inter-faith work and how faith can be used as a launch pad to effect real changes in the lives of deprived, minority communities. The MA in Islam in Britain has definitely given me a real sense of perspective, as well as a sense of direction in terms of my future career path.

"It is also incredibly exciting to be given the opportunity to work alongside world-leading academics, in an atmosphere of great intellectual exchange, as well as one of building bridges with people from different disciplines."

Dr Sophie Gilliat-Ray, Director of the Centre, said: "These scholarships support us in attracting the very best students to pursue world-leading research. We are immensely grateful to Mr Jameel for his generosity – his support will make a huge difference not only to the students, but in the long-term throughout the UK for Muslim and non-Muslim people alike."

The generosity of Banco Santander will allow the School to strengthen those ties even further over the coming years.

Santander support for Patagonia Project

In September 2008, Cardiff became the first Welsh member of 'Santander Universities', a growing international network of higher education institutions, promoted by Banco Santander.

'Santander Universities' Global Division is funding a number of initiatives at Cardiff, including overseas research, study exchange scholarships, student enterprise and volunteering initiatives. The Santander network includes universities in Argentina, Brazil, Chile, Colombia, Mexico, Peru, Portugal, Puerto Rico, Spain, Uruguay and Venezuela.

Dr E Wyn James, Reader in the School of Welsh, explains how the School has benefited from the first year of the scheme.

"For some years the School of Welsh has had links with the Welsh settlement established in Patagonia, Argentina in 1865. The generosity of Banco Santander will allow the School to strengthen those ties even further over the coming years.

"As a first step in this development, five members of staff, including the co-Directors of the Cardiff Centre for Welsh American Studies and the Director of the Cardiff and the Vale of Glamorgan Welsh for Adults Centre, visited Patagonia last spring.

"The main focus of the visit was a series of meetings with individual members of staff and research groups from various branches of the federal National University of Patagonia to discuss their research and to explore possible cooperation.

"In addition, the staff visited a number of libraries and archives, in order to ascertain the extent of the primary research material relating to the Welsh settlers which is to be found in Patagonia. This included a meeting with the Culture Minister of the Government of the Chubut Province to discuss the possibility of exchange of archival material.

"The staff also took the opportunity to network extensively with the Welsh communities in the Trelew area of the Lower Chubut Valley and in Esquel/Trevelin in the Andes, contributing to a number of community and chapel-based events. The visit proved very productive, attracted significant media attention, and has laid a strong foundation for further cooperation."

António Horta-Osório, Banco Santander's CEO, said: "We share the conviction that education, international cooperation and the transfer of knowledge are of vital importance in a global society."



Communication



Sandra Elliott

Director, Communications and International Relations Division

The communication aims of the University Strategy include gaining international recognition for our academic distinction and impact. We also work to gain greater engagement with our local communities and to build the sense of community among University members.

In working towards these aims, there has been a great deal of progress over the last year. A large focus has been on developing improved communications for staff, students and external audiences. Working groups have been set up to agree actions for each of these areas and some early results have been realised already with the e-Newsletter for staff – *Blas*. All members of staff can contribute ideas, photographs and stories for this lively new publication. It is a step towards two aims of our strategy – enhancing the sense of common purpose in the University community and a reminder that communication is a responsibility for everyone.

An increasingly important part of the communications agenda involves Assembly Members and other political representatives, briefing them on our research and teaching, and bringing them here to see it first hand. The outgoing First Minister for Wales, Rhodri Morgan, and his successor, Carwyn Jones, have both made visits to the University and taken a keen interest in all of our activity. It is vital we work with politicians on maximising our already substantial contribution to the economy and our support for business through these difficult times.

One outstanding example of internationally-recognised academic distinction, Professor Julie Williams, is featured opposite. With all our media activity, the aim is not to gain headlines for their own sake but to explain the beneficial impact the University has on many sections of society. As Professor Williams says, it is vital that the public understand the research itself and also what it could mean for them.

At a more local level, interaction with the community is now an invaluable two-way process, informing much of what we do academically and operationally. Many academics involved in Beacon for Wales engagement projects find the public raise questions and ideas they had never considered before. Researchers often go back to their laboratories and their studies inspired with entirely new approaches.

Many events of the past year have met more than one of our aims. The 100th anniversary celebration for Main Building in October was a chance for the University community to meet and share thoughts, photographs and memories of the building's eventful history. Media coverage of the celebration included an online picture gallery by BBC Wales – a tribute to how we are seen as central to the life and history of the nation.

The University's first-ever Sustainability Week also drew together a number of strands. Politicians, academics, students, business leaders and members of the public met to debate the issues around sustainable eating. There was national media coverage of School of Psychology research into attitudes to climate change, as the global warming debate intensified. Staff made individual pledges to help the University become a more sustainable community. The week was a successful template for how we can take an issue and demonstrate the wide reach and relevance of all the University's different areas of activity to local, national and international communities.



Global impact

Professor Julie Williams, Professor of Psychological Medicine at the School of Medicine, achieved world-wide media coverage for her Alzheimer's research in 2009. Professor Williams outlines the need and tools for good communications.

"For me, good communications is an essential part of my work. It is part of my role to explain to people – in language they understand - what my research is about, what it's achieved and most importantly, what it means for their lives and future research into Alzheimer's.

"Good communications is also about ensuring value for money. Most of our research funding comes from the public purse or from charitable donations and they have a right to know how their money is spent.

"The key to securing the media coverage we achieved for our Alzheimer's study was down to a real team effort. A good communications team – which combined the knowledge of our research experts with the communication expertise from the University, charities and from our funding bodies – ensured that the message was planned, clear and targeted to as broad a range of media as possible."

Science Media Centre

The Science Media Centre works to promote the voices, stories and views of the scientific community to the media when science hits the headlines. Director Fiona Fox knows the value of working closely with universities like Cardiff to ensure better public understanding of the stories of the day.

"We had a busy year in 2009. With the outbreak of swine flu, the HPV scare, flooding in Cumbria, climate change and COP15, the Science Media Centre (SMC) did what it does best – ensured that scientists get their voices and expertise heard loud and clear amidst the clamour of people with something to say.

"We held 78 press briefings in 2009, a number of which included academics from Cardiff University, who used the opportunity to talk to UK national journalists on topics ranging from Alzheimer's and flooding, to pest control and engineering. By doing this they were able to ensure more accurate coverage of their science.

"Our ultimate goal is to facilitate more scientists to engage with the media, in the hope that the public will have improved access to accurate, evidence-based scientific information. One of the most successful ways we achieve this is through the hugely popular Introduction to the News Media events. We joined forces with Cardiff University to run one of these events in 2009, and were able to give scientists from all disciplines who were considering media work, an idea of how the UK national news media operate. The event was well attended and resulted in many lively debates about why experts should even consider engaging with the media – with attendees leaving feeling much more supported and more comfortable about doing so.

"It has been exciting to see just how much better the scientific community now is at responding to breaking science stories than when we were set up in 2002."

Communications figures

Dealt with more than **500** separate media enquiries from local, national and international media.

Some **27,000** people from **122** countries watched the 2009 Graduation ceremonies.

More than **15M** separate visits have been made to the University's web site, resulting in almost **50M** page visits - an increase of more than **4M** page visits over the previous year.

The University's Facebook site has more than **12,000** followers, surpassed only by Oxford and Cambridge among the Russell Group universities.

The University now has more than **2,600** followers on Twitter.

New faces

More than 750 staff joined the University in 2009, including 12 professors and 170 researchers, in line with the strategy of attracting world-leading academic and support staff. Here we profile just a few of them.



Eileen Brandreth

As the new Director of University IT in the Information Services (INSRV) Directorate, Eileen Brandreth is responsible for balancing the needs for excellent day-to-day IT service with demand for new capabilities for the University.

The best IT service is 'invisible' to the user – it is there, they can do what they want with it, and it works. This year has seen fewer interruptions to the networked services, increased availability of critical systems, reduced log-in times and more automation of student enrolment and other facilities. In addition, INSRV has introduced a number of new services, including the expansion of WiFi access throughout Cardiff's campuses, the Blackberry service, off-campus access to eJournals and online resources, and the launch of the new Oracle-based finance system. In the year ahead, Eileen will be overseeing a programme of new capabilities for the University's IT. This includes new HR systems, revisions to the University web systems and improved online collaboration services, role-based intranet content and services, and more automation of process and forms in the University's Modern Working Environment.

Eileen's previous career has been in the financial services sector, specifically delivering IT in banking, insurance

and wealth management, and she has vast experience of delivering major technical programmes across the UK. More recently, Eileen was responsible for Service Management across one of the UK's top five retail banks.



Professor Peter Pearson

Professor Peter Pearson became the first Director of the Low Carbon Research Institute (LCRI), a multi-disciplinary research collaboration across six Welsh universities, Cardiff, Aberystwyth, Bangor, Glamorgan, Glyndwr and Swansea, and led from the Welsh School of Architecture.

Working with the Cardiff School of Engineering and the other partners, the LCRI aims to support the energy sector, UK and globally, in developing low carbon technologies. In October 2009, the LCRI secured £34M over the next three years to support Welsh universities in partnering local industries to provide a comprehensive cross disciplinary energy research base and to support the Welsh Assembly Government's low carbon policies.

Professor Pearson was previously Professor of Energy & Environmental Studies and Director of the Centre for Energy Policy & Technology (ICEPT) at Imperial College London. His research addresses long-term energy technology and fuel transitions and their policy implications.

He is the academic leader of a £2M EPSRC/E.ON UK-funded research consortium exploring Transition Pathways to a Low Carbon Economy. He has also been Chairman of the British Institute of Energy Economics, and was Specialist Adviser to the 2007-08 House of Commons Select Committee Enquiry into Renewable Electricity Generation. In 2009, he was invited to chair the Carbon Trust Standard's Advisory Board.



Professor Ole Petersen

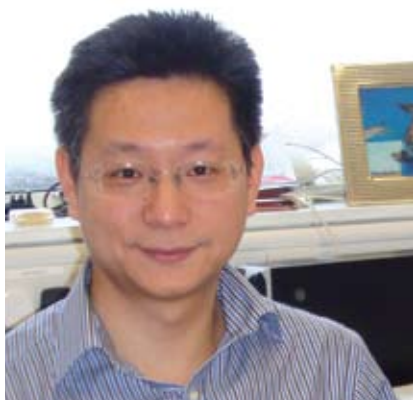
Professor Ole Petersen CBE FRS, one of the most distinguished figures in international biomedical research, was appointed the new Director of the School of Biosciences.

Renowned for making breakthroughs in understanding how calcium ions can trigger a range of events in cells in the body, particularly the pancreas, Professor Petersen will be bringing members of his team from Liverpool to Cardiff, supported by the Medical Research Council (MRC). Professor Petersen will also continue to be an MRC Professor.

In a recent (2009) paper published in the prestigious Proceedings of the National Academy of Sciences USA, Professor Petersen and his collaborators showed how combinations of alcohol and fat damaged cells by releasing large quantities of calcium ions from stores inside the cells. The future work in Cardiff on the molecular mechanism by which alcohol and its breakdown products can

damage cells will be further assisted through a £500,000 investment by the University in a new state-of-the-art two-photon microscope.

Since arriving in Cardiff, Professor Petersen has already started work on an international Scientific Advisory Board for the School of Biosciences, composed of some of the most eminent scientists from the UK, continental Europe and the US, who can advise on research performance and policy and also promote the School worldwide.



Professor Bing Song

Professor Bing Song, Professor of Oral Biology, School of Dentistry, and his research team joined the University from the University of Aberdeen.

Professor Song's research interests are in electric signal regulation of cell migration, division and differentiation in wound healing and tissue regeneration. He brings with him an established research team including Dr Yu Gu, Dr Xiao Ting Meng and Gaofeng Zhang, which will expand over the coming months. He is already actively collaborating with other members of the University.

Internationally, he brings to the School, ongoing collaborations with colleagues in the University of California and Johns Hopkins University School of Medicine, as well as the IMBA, Austrian Academy of Sciences. In the field of neural stem/progenitor cells he works with Salk Institute for Biological Studies in the US.

Professor Song obtained his Doctor of Medicine (MD) from China Medical University in 1995, following which he trained in Ophthalmology in Hamamatsu University School of Medicine in Japan until 1998. He received his PhD from

the University of Aberdeen in 2004 and was then awarded a prestigious eight year Royal Society University Research Fellowship. In the last two years, Professor Song has attracted significant funding for his research including a recently awarded five-year research grant of £1.5M from the European Research Council – the first such grant held by Cardiff University.



Stuart Vanstone

Since joining the University in May as Head of Sports and Exercise, Stuart Vanstone and his team have made key steps to take the service forward into 2010.

Together, they have been working extensively to identify key stakeholders and how Sports and Exercise can support them in achieving their outcomes. It has also been looking at how it can work more closely to provide further programmes for students and staff. They are working on a five year Strategy for sport, a partner written document with the Students' Union, providing a vision for sport provision at the University.

On the facilities side, Sports and Exercise has recently been able to fully refurbish the fitness equipment in the University gyms at Park Place and Talybont. The new state-of-the-art equipment has been welcomed by members and the refurbishment of the provision has been very successful. Further work is ongoing to identify and prioritise further facility developments.

Before joining the University, Stuart spent three and a half years as the Head of Sport at the University of the West of England, Bristol.



Dr Richard Wyn Jones

Dr Richard Wyn Jones joined the University in February 2009 following 18 years at Aberystwyth University.

As a leading expert in Welsh politics, he was appointed as the Director of the University's Wales Governance Centre to drive forward the University's research into governance, devolution and constitutional affairs, and to encourage public debate.

The Wales Governance Centre brings together academics from across Cardiff University including the School of European Studies, Cardiff Business School and Cardiff Law School. In addition, the Centre has developed links with academics from outside the University working in a wide range of social science disciplines. Since arriving, much of Dr Wyn Jones' work with the Wales Governance Centre has involved laying the foundations to enable it to forge ahead in the next few years. The political calendar for the next eighteen months means that those foundations will be put to the test, with two elections (one at the UK level and one for the National Assembly) as well as a referendum on more powers for Wales.

Dr Wyn Jones is the former Director of the Institute of Welsh Politics at Aberystwyth University and a specialist in Welsh politics and critical security studies. Since 1997, he has led election surveys helping to detail the attitudes of electors in Wales in the immediate aftermath of Westminster and National Assembly elections. His specific teaching and research interests include: devolution; political thinking in Wales; electoral behaviour in Wales; nationalism and critical security studies.

Appointments and distinctions

New Year's Honours 2010

Professor Sir Mansel

Aylward CB, Director of the Centre for Psychosocial and Disability Research, School of Medicine, received a knighthood for services to healthcare.

Lawrence Conway, Director of the Office of the First Minister and alumnus, appointed Companion of the Order of the Bath (CB) in recognition of public service.

Bethan Guilfoyle, Head of Treorchy Comprehensive and alumna, appointed Commander of the Order of the British Empire (CBE) for services to education in Wales.

Hew Mathewson, President of the General Dental Council and alumnus, appointed Commander of the Order of the British Empire (CBE) for services to healthcare.



Menna Richards, Controller, BBC Wales, Honorary Fellow and University Vice-President, appointed an Officer of the Order of the British Empire (OBE) in recognition of her services to broadcasting.

Dr Richard Sparks,

Consultant in Genito-Urinary Medicine, Cardiff and Vale University Health Board and alumnus, became a Member of the Order of the British Empire (MBE) for services to medicine.

Patrick Stewart OBE, Honorary Fellow of the University, knighted for his services to drama.

Honorary Fellows

Honorary Fellowships were bestowed on the following in recognition of their international distinction in their field.



Jeremy Bowen, a British journalist who has reported from more than 70 countries and covered 14 wars. Jeremy is currently the Middle East Editor for the BBC and has won many prestigious awards, including an International Emmy.

Dr John Burke, a Cardiff businessman dedicated to cancer research and cancer care who has raised more than £12M for original cancer research. The world-acclaimed Cardiff cervical cancer screening research project arose from his initiatives.

Lord Burns GCB, the recently appointed Chairmen of Channel 4. Lord Burns is the former Chairman of Abbey National plc and Alliance & Leicester plc. He will shortly be stepping down as Chairman of Glas Cymru Ltd. In 1991 he became Permanent Secretary to the Treasury, a post he held until 1998, when he was appointed a life peer.



Dame Karen Dunnell DCB, the National Statistician and the Chief Executive of the new Independent UK Statistics Authority. She has led several major benchmark surveys in the health and demography fields.

Dame Deirdre Hine, an alumna of Cardiff University who established the Welsh Breast Cancer Screening Service, Breast Test Wales, before becoming the Chief Medical Officer at the Welsh Office from 1990 to 1997.

Mr Albert Hung, Hong Kong business man and philanthropist, awarded an Honorary Fellowship in recognition of his commitment to the development of initiatives in the fields of education, health and sport.



Griff Rhys Jones, widely known for his sketch show *Not The Nine O'Clock News* and *Alas Smith and Jones* which won an International Emmy. He has worked extensively as a television presenter on series such as *Restoration*, *Mountain*, and *The Nation's Favourite Poem*.

Sir David Lewis MA DL, the 680th Lord Mayor of London in 2007-8 and only the eighth Welsh Lord Mayor in 818 years. He was appointed by the First Minister as an official 'Champion for Wales' in 2008 and knighted by the Queen in the 2009 New Year's Honours List.

Elfed Roberts, a native of Penygroes in the Nantlle Valley, in 1983 he was appointed North Wales organiser of the Urdd Eisteddfod and in January 1986 joined the National Eisteddfod of Wales as North Wales organiser. He remained in this post until 1993 when he was appointed Chief Executive Officer of the Eisteddfod.



Bryn Terfel CBE, Welsh bass baritone, has performed in all of the world's greatest opera houses. Especially recognised for his portrayal of Figaro and Falstaff, he has won Grammy, Classical Brit and Gramophone Awards. He hosts his own annual festival in Faenol, North Wales.

Other Appointments and Distinctions

Professor Barbara Adam, School of Social Sciences, **Professor Alistair Cole**, School of European Studies, and **Professor David Nelken**, Cardiff Law School, were conferred with the title of Academician by the Council of the Academy of Social Sciences for their outstanding contributions across the spectrum of social sciences.



Professor Mansel Aylward, Director of the Centre for Psychosocial and Disability Research, was appointed the first-ever Chair of Public Health Wales.

Dr D Mark Davies, Institute of Medical Genetics, won the Welsh Livery Guild's Merit Award for 2009 in recognition of his research on therapy for tuberous sclerosis.



Professor Sir Martin Evans, University President, received the Royal Society's Copley Medal, one of the world's oldest prizes for scientific achievement, and the Baly Medal from the Royal College of Physicians.

Dr Saman Hewamana, School of Medicine, was awarded The Royal College of Pathologists' Gold Research Medal for his work on chronic lymphocytic leukaemia.

Professor Graham Hutchings, School of Chemistry, was elected a Fellow of the Royal Society (FRS) for his pioneering contributions in the use of gold for catalysis. Professor Hutchings was also winner of the RSC Surfaces and Interfaces Award for his innovative design and characterisation of new solid-state and nanoparticle catalysts.

Dr Dai John, Welsh School of Pharmacy, has been designated a Fellow of the Royal Pharmaceutical Society of Great Britain for distinction in the Practice & Profession of Pharmacy.

Professor Anthony Moses, School of Engineering, received the 2009 Award and Medal from the Japan Society of Applied Electromagnetics and Mechanics for outstanding scientific and technical contributions in applied electromagnets.

Dr Craig Patterson, School of European Studies, was elected President of the International Association – the leading association responsible for advancing academic study of Galicia in the northwest of the Iberian Peninsula.



Professor John Pearce FRS, School of Psychology, became a recipient of a prestigious Humboldt Research Award for his groundbreaking studies into how animals learn and the fundamental mechanisms of animal intelligence.

Professor David Price, School of Medicine, received the Graham Bull Prize in Clinical Science from the Royal College of Physicians, an annual award recognising the work of a young researcher who has made a major contribution to clinical science.



Professor Mike Rowe OBE, School of Engineering, was elected President of the European Thermoelectric Society – the first time that the position has been held by a scientist outside of mainland Europe.

Professor John Tyrrell, School of Music, was awarded a Fellowship of the Royal College of Music.

Dr James White, School of Medicine, won the Seymour Fisher Outstanding Dissertation Award for his doctoral thesis *The Development of Negative Body Image and Disordered Eating in Adolescence* by the journal *Body Image: An International Journal of Research*.

University in numbers



-273.05 – operating temperature in degrees Celsius for the detector array designed at the School of Physics and Astronomy for the Planck space satellite

1 – The University's ranking in Wales according to both world league tables of universities.

2 – US students on a prestigious Marshall Scholarship choosing Cardiff for their studies this year

4 – University teams and individuals to have won a Queen's Anniversary Prize following this year's success by the Violence and Society Research Group

9 – Cardiff's score in this year's Varsity Rugby Cup (Swansea scored 6)

11 – Years service by Lord Kinnock as University President before handing over to Professor Sir Martin Evans

35 – Lectures given in the UK by Professor Tony Campbell, School of Medicine, to mark the bicentennial of Charles Darwin's birth

93 – Awards won under the Arts and Humanities Research Council Block Grant Partnership, reflecting Cardiff's strength in these fields

100 – Age reached by the University's Main Building in October

837 – People helped every week by Student Volunteering Cardiff

1570 – Years total service by 55 staff members recognised at last year's Recognition of Service Awards

16,000
 £10^{8,500}M
 13,000,000,000

5,500 – Hands shaken by the Vice-Chancellor at 2009's graduation ceremonies

8,500 – Patients tested and treated at the School of Optometry and Vision Science's clinic in its first two years

16,000 – Volunteers in the largest-ever study of Alzheimer's Disease led by the School of Medicine

50,000 – Tonnes of municipal waste recycled annually by Lampeter-based LAS Recycling Ltd, working in partnership with the School of Engineering

60,000 – Square metres of space to be created in the new Maindy Park development

100,000 – Pounds saved by the University in energy costs and associated CO₂ from its new PC powering down system

10,000,000 – Total financial investment in the new Arthritis Research Campaign Biomechanics and Bioengineering Centre

1,000,000,000 – Combined annual turnover (£) of the St David's Day Group of Universities, including Cardiff, launched to help regenerate the Welsh economy

13,000,000,000 – Age of an image of the universe captured by an international team jointly led by the School of Physics and Astronomy

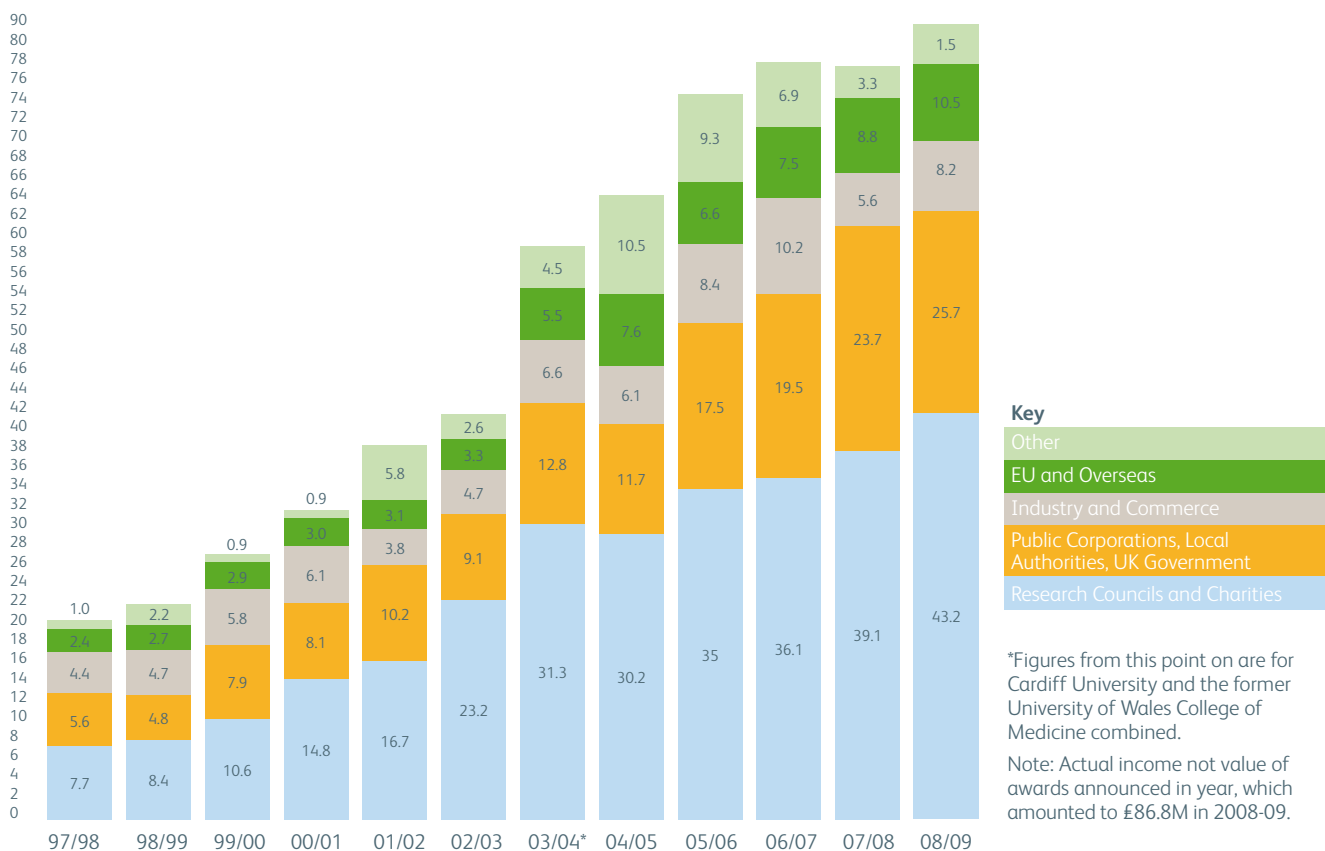
Strategy Map

VISION	We will be one of the world's leading universities with an academic community recognised for its international distinction and impact		
VALUES	<ul style="list-style-type: none"> • We value freedom of thought and intellectual curiosity • We value excellence, innovation and contemporary relevance • We support an ethical, open, and collaborative work ethos • We have a culture based on dignity, respect and courtesy • We have a strong commitment to equality and diversity • We encourage sustainability 		
PRIORITIES	Academic excellence rooted in world-leading research and scholarship, with a current emphasis to increase the University's postgraduate community and to increase the University's international outreach and impact		
OBJECTIVES	FOR OUR STUDENTS An inspiring and enriching educational experience <ul style="list-style-type: none"> • Informed and led by world-leading research and scholarship • Recognised and well-regarded by employers and professional bodies • Built on a culture of excellence and enhancement • Includes a vibrant and growing postgraduate community 	FOR THE ADVANCEMENT OF KNOWLEDGE World-leading research and scholarship <ul style="list-style-type: none"> • Esteemed internationally for its significance, originality and rigour • Built on a strong disciplinary base which supports multi-disciplinary groups • A location of choice for the best researchers and graduate students • Acts as a magnet for international research and development in Wales 	FOR OUR COMMUNITIES Creating global impact through our academic excellence <ul style="list-style-type: none"> • A catalyst for enhancing the economic and social development of Wales and the UK • Recognised as a centre of choice for continuing and professional education • Internationally acclaimed for informing public policy and services • Renowned for the value derived from knowledge transfer
ENABLERS	<p>PEOPLE and ORGANISATION: Foster a supportive environment for all staff and students Nurture leadership, empowerment and development Recognise and value good performance Maintain a healthy and safe working environment Develop rapid and efficient processes Maintain good governance</p> <p>PARTNERSHIPS and COMMUNITY: Work with others to enhance our contributions locally as well as internationally Collaborate with world-leading people and organisations Maintain a lifelong relationship with alumni</p> <p>ESTATES and INFORMATION INFRASTRUCTURE: Develop distinctive physical and virtual environments that foster cohesion and excellence for staff, students and collaborators Develop further an information infrastructure including 21st Century IT and library provision</p> <p>INVESTMENT: Plan for sustainable growth Make selective and prioritised investment</p> <p>COMMUNICATION: Improve the quality and value of communication to all recipients Create a sense of community within a positive working and learning environment Gain greater awareness, engagement and support among our local communities Gain recognition internationally for academic distinction and impact</p>		

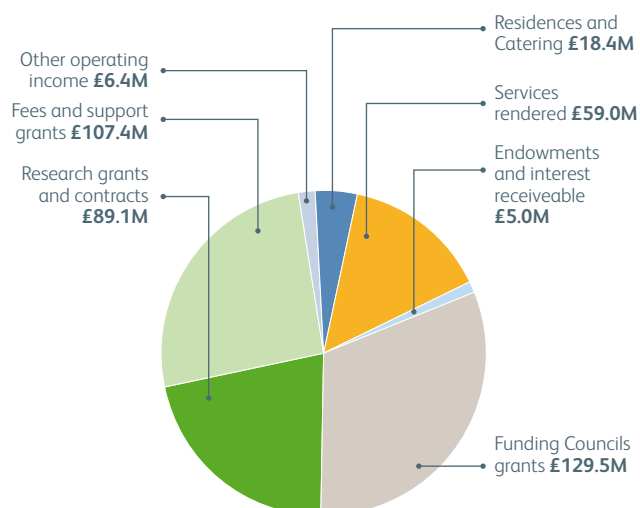
Financial performance

Research Grants and Contracts

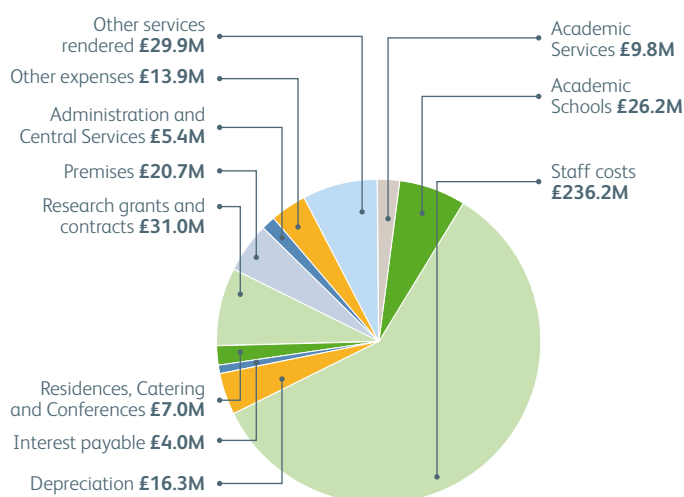
Key £M



Total Income: £414.8M



Total Expenditure: £400.4M



Grants, gifts and donations

Cardiff University gratefully acknowledges the following grants, gifts and donations received during the year under review. These were received and recorded centrally by the University from the organisations and individuals listed. The University also wishes to acknowledge the many additional gifts and donations it receives anonymously and those donated generously directly to its academic Schools.

Organisations

3D Technologies Ltd	Brymill Cryogenic Systems (UK) Ltd	Equateq Ltd	Committee
A Menarini Diagnostics	BUPA Foundation Ltd	ESRC National Centre for Research Methods	Jean Rich Foundation
Abbott Laboratories Limited	CADW Welsh Historical Monuments	European Huntington's Disease Network	JISC TechDis
Academic Expertise for Business (A4B)	Campden & Chorley Food Research Association Group	European Organisation for Research and Treatment of Cancer	Joanna Briggs Institute
Academy of Medical Sciences	Cancer Research UK	European Society of Anaesthesiology	Johnson Matthey Plc
Accenture	Cancer Research Wales	European Space Agency	Juvenile Diabetes Research Foundation
Agilent Technologies	Cardiff & Vale UHB	Experian Ltd	Kenyon Gilson EPS Research Fund
Agusta Westland	Cardiff Partnership Fund Ltd	Exxon Mobil	Kidneeds
Alcohol Education and Research Council	Cardiff University Students' Union	FCT Fundacao para a Ciencia e a Tecnologia	Kidney Research UK
Algipharma AS	Careers Wales Cardiff & Vale Ltd	Federation of Small Businesses	King Faisal Foundation
Algipharma Biopolymer Therapies	Centre for Transcultural Exchange	Flexicare Medical Ltd	Lancashire Constabulary
Almirall Ltd	Centre Technique Interprofessionnel des Fruits & Legumes	Fondazione Lanza	Legal Services Commission
Alzheimer's Society	Ceredigion County Council	Fonds National de la Luxembourg	Leo Pharmaceuticals
Amgen Inc	Charles Wolfson Charitable Trust	Fong Shu Fook Tong Foundation	Leuchemix
Anaesthetic Research Society	Cheshire Constabulary	Forest Laboratories	Lloyd's Register of Shipping
Arthritis Research Campaign	CIEMAT	Foundation for Informed Medical Decision Making	LloydsTSB
Arts and Humanities Research Council	CLANET	Foundation for Sport and the Arts	London First
ARUP	Coal Authority	Galderma UK Ltd	Lucas Oil Products UK Ltd
Asda Stores Ltd	College of Occupational Therapists	General Dynamics UK Ltd	LUSAS
Association of Commonwealth Universities	Coltene Whaledent UK	Genus Pharmaceuticals	M&A Pharmachem Ltd
Association of Physicians of Great Britain & Ireland	Commission of European Communities	Genzyme	Manchester Metropolitan University
Astellas Pharma Ltd	Community Housing Cymru	GeoQuest Systems B.V.	Massachusetts General Hospital
AstraZeneca UK Ltd	Corus Group	Gilead Sciences Ltd.	Meda Pharmaceuticals Ltd
AtCor Medical	Council for the Central Laboratory of the Research Councils	Glan Clwyd Hospital	Medical Research Council
Aventis Pharma Ltd	Cranfield University	GlaxoSmithKline	Medieval Settlement Research Group
Baily Thomas Charitable Fund	Cwm Taf Health Board	GlaxoSmithKline Consumer Healthcare	Mental Health Research Network Cymru
Bavarian Broadcasting Corporation	Cystic Fibrosis Foundation	Guardian Global Technology	Merck KGaA
Baxter Healthcare	D Caesar Jones Funeral Directors	Gwent Health Authority	Merck-Serono Ltd
Baxter Renal Division	Dar Al-Arkan Development Company Ltd	Haag Streit UK Ltd	Merthyr Tydfil County Borough Council
Bayer Bioscience N.V	Deafness Research UK	Halcrow Group Ltd	Molecular Light Technology Research Ltd
Bayer HealthCare LLC	Defence Science and Technology Laboratory	Health and Safety Executive	Morvus
BBI Marketing Inc	Defence Threat Reduction Agency	Higher Education Funding Council for Wales (HEFCW)	Multiple Sclerosis Society
Beacon for Wales	Department for Environment, Food and Rural Affairs	Home Office	Myrovlytis Trust
Beiersdorf UK Ltd	Department for Business Enterprise and Regulatory Reform	Hong Kong Alumni Association	Nancie Finnie Charitable Trust
Big Lottery Fund	Department of Communities and Local Government	Human Rights Society	Napp Pharmaceuticals
Biochemical Society	Department of Health	IBM UK Ltd	NARSAD Research
Bioforce AG	DePuy International Ltd	IDEAS	National Cancer Research Institute
Bioiberica	Derek Williams Trust	Imperial College London	National Eye Research Centre
Bioquell (UK) Ltd	Dermal Laboratories Ltd	Inhibitex Ltd	National Grid Company Plc
Biotechnology and Biological Sciences Research Council	Diabetes UK	Institute for Science and Health	National Health Service
BP Alternative Energy International Ltd	EADS UK LTD	Institute of Cancer Research	National Institute for Health and Clinical Excellence
Breast Cancer Campaign	Economic and Social Research Council	Institute of Civil Engineers	National Institute of Academic Anaesthesia
British Academy	Embassy of the Kingdom of the Netherlands	International Wildlife Consultants (UK) Ltd	National Institute of Mental Health
British Broadcasting Corporation	Engineering and Physical Sciences Research Council	Invitron Ltd	National Institutes of Health
British Council	English Heritage	IOSH	National Museums and Galleries of Wales
British Heart Foundation	Environment Agency	Ipsen Fund	National Physical Laboratories Management
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