



the people make the place annual review 2008

Who's Who

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Research	Professor Teresa Rees CBE
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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 & Regional Planning
- Cardiff School of Computer Science
- School of Dentistry
- Cardiff School of Earth & Ocean Sciences
- Cardiff School of Engineering
- Cardiff School of English, Communication & Philosophy
- Cardiff School of European Studies
- School of Healthcare Studies
- Cardiff School of History & Archaeology
- Cardiff School of Journalism, Media & Cultural Studies
- 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 & Midwifery Studies
- Cardiff School of Optometry & Vision Sciences
- Welsh School of Pharmacy
- Cardiff School of Physics & Astronomy
- School of Postgraduate Medical & Dental Education
- Cardiff School of Psychology
- Cardiff School of Religious & Theological Studies
- Cardiff School of Social Sciences
- Cardiff School of Welsh

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

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The place

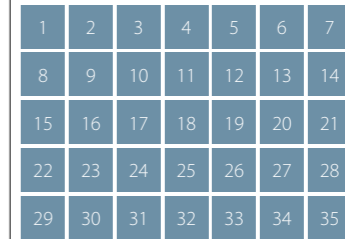
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- The University joined with Techniquet to provide interactive exhibits and displays at the National Eisteddfod.
- Dr Haley Gomez a former Cardiff student and now member of staff at the School of Physics and Astronomy.
- Students celebrating Chinese New Year at the University's Confucius Institute.
- Martyn Harrow, Director of Information Services, and Professor Martyn Guest, Director of Advanced Research Computing @ Cardiff, with the University's supercomputer – one of the most powerful computers in UK higher education institutions.
- Pre-school children from the University's Day Care Centre coloured in their own Eisteddfod crowns.
- Third-year Business Studies student TJ Wheeler is the founder of a business helping charities organise skydiving events.
- Award-winning poet Gwyneth Lewis wrote a poem in celebration of the University's 125th Anniversary.
- Professor Archie Cochrane, a pioneer of modern medicine who worked in the forerunner to the School of Medicine
- Cardiff graduate Jo Davies who rowed across the Atlantic as part of an all-female crew.
- Cardiff is the first Welsh University to join the Santander Universities scheme.
- Professor Judith Hall was named Welsh Woman of the Year for her work as founder of Mothers of Africa.
- Louise Casella, Director of Strategic Development.
- Professor B.S. Sathyaprakash, a member of the Gravitational Research Group at the School of Physics and Astronomy.
- Dr Peter Brabham, exploration geophysicist and lecturer in the School of Earth and Ocean Sciences.
- Alexis Paterson, a contemporary music and culture research student at the School of Music.
- Professor Sir Martin Evans, winner of the 2007 Nobel Prize for Medicine.
- Professor Chris McGuigan, Welsh School of Pharmacy, the lead academic in a collaboration which won the Innovation Prize at the University's 2008 Innovation Awards.

- The University sponsored the National Eisteddfod 2008 Crown, commissioning a design inspired by the University's most notable architecture.
- Margaret McCarter Jervis, the University's first People's Fellow.
- Professor Ron Eccles, Director of the Common Cold Centre, which celebrated its 20th anniversary in 2008, made headlines worldwide with research into alleviating the symptoms of colds and flu.
- University Vice-President Mr Bill John with Captain Ian Wright, 211 Battery, 104th Regiment Royal Artillery (Volunteers) at the Founders' Day ceremony.
- Cardiff International Academy of Voice student Bulelani Madikizela performing at Llandaff Cathedral.
- Professor Terry Threadgold, Pro Vice-Chancellor, Staff and Diversity.
- Third-year history student Rachel Payne is Chair of Student Volunteering Cardiff, one of the largest student volunteering organisations in the UK.
- Panagiota Manti from the School of History and Archaeology and one of many international PhD students drawn to the University.
- Professor Teresa Rees, Pro Vice-Chancellor, Research, chairing a 'European Question Time' panel with First Minister Rhodri Morgan.
- Professor Andy Sewell led a team of scientists which engineered immune cells that see through HIV's many disguises.
- Nicki Phillips, director of Postgraduate Healthcare Studies and Chief Physiotherapist to Team GB for the 2008 Olympic Games.
- First Minister Rhodri Morgan launches the Beacon for Wales with Bruce Etherington, Beacon for Wales Manager and director of Science Made Simple, Wendy Sadler.
- Professor Jonathan Osmond, Pro Vice-Chancellor, Education and Students.
- Dr Isabelle Durance, School of Biosciences, combines climate change research with raising four children.
- Sandra Elliott, Director of International Development Division.
- Student Ning Li is studying for a Masters in International Journalism.
- Dr James Hegarty, lecturer in Indian religions at the School of Religious and Theological Studies.
- Professor Mike Owen deputy director of the Cardiff Neurosciences Centre, pictured at the Centre's launch.

Vice-Chancellor's preface

The University has made excellent progress throughout the year and although there are challenging economic times ahead for the sector, there are inspiring and innovative developments at Cardiff University that will help us make an even greater contribution to all stakeholders.

Recently, the University was commended by a parliamentary committee on its partnership with Xiamen University in China. The MPs concluded: "Both institutions, working together, are maximising the opportunities presented by globalisation and providing a successful model for others to follow." This was pleasing for a number of reasons, as the relationship with Xiamen exemplifies many of our key strengths. It demonstrates the productivity of our partnerships, the global spread of our engagement activities and the impact we have on the Welsh and UK economy. Our research and teaching strengths have helped our colleagues in Xiamen develop their own expertise and courses in City and Regional Planning.

It is pleasing to note that overseas student numbers increased three per cent this year to 2,734.

Our strengths and international outreach have combined over the past year to deliver some remarkable successes. Our partnership with one of the world's leading IT companies, Bull, resulted in the creation of the new Advanced

Research Computing @ Cardiff High Performance Computer. Science and humanities researchers alike will benefit from this, one of the most powerful research supercomputers in UK higher education institutions – and also one of the greenest.

With Cardiff playing a prominent role, research collaborations among Welsh universities are informing national policy-making. The Wales Institute for Social and Economic Research, Data and Methods will tackle the social issues facing post-industrial 21st Century Wales. Meanwhile, a unique alliance with Bristol University – the Severnside Alliance for Translational Research – aims to speed up the process of taking medical research from the laboratory bench to the patient's bedside.

These partnerships are only possible because of our leading status in many fields of research, also underlined by the results of the 2008 Research Assessment Exercise. The results showed cross-the-board strength with independent assessment that we conduct world-leading research in 33 out of the 34 academic areas submitted. The Exercise

is vital to our reputation and our funding but the distinction and relevance of our research is demonstrated in many other ways. The confidence external funders have in us was recently underlined by an award from the Arthritis Research Campaign. Over the next decade a total of £10M investment will be made to an interdisciplinary project involving several of our academic schools working together to tackle this widespread cause of disability and pain.

The main purpose of our activity is the furthering of knowledge and its translation into direct benefits for society. Our work also brings a significant benefit to the national economy – a contribution all the more telling in the current climate. We support more than 1,750 research grants and contracts with a total value of almost £400M – and 80 per cent of this is funded from sources outside Wales. We provide the equivalent of more than 5,000 full-time jobs, while our students bring an estimated £150-200M annually to the local economy. In total, the economic value add of Cardiff University is greater than one billion pounds per annum.



Our activities and contribution to the local community are substantial, and we believe it is important that the role and contribution of higher education institutions is more widely understood and further developed. With that in mind, Cardiff has led the first year of the Beacon for Wales project to widen public engagement with the academic world. The first wave of projects will involve young people in everything from archaeological field work to the study of space debris.

“Our strengths and international outreach have combined over the past year to deliver some remarkable successes.”

There have been many indicators of the strength of our achievements. Our learning and teaching activities received the highest possible rating in an independent review from the Quality Assurance Agency for Higher Education. There was particular praise for the way the learning experience is continuously developed and enhanced in collaboration with our close partner – the Cardiff University Students' Union. Together we encourage further skills development that enhances the employability of our students beyond graduation in a variety of professions.

Another endorsement came from the first-ever staff survey as part of our Positive Working Environment initiative. This revealed high levels of overall satisfaction and motivation in the workplace and produced an action plan to further improve some aspects of the workplace experience.

Perhaps most exciting of all the year's developments was the embarkation on our Campus Horizons project – a multi-million pound scheme which will transform the campus over the next

decade. Many existing facilities will be upgraded while new building projects will include a Medical Education Centre. Another highlight will be an entirely new development on land near the new School of Optometry and Vision Sciences. This major new site, effectively a third campus for the University, will provide research and other space for work which is key to our future.

None of these successes, in our 125th Anniversary year, would have been possible without the hard work and commitment of our staff, the enthusiasm of our students or the goodwill and support of our many stakeholders. I would like to take this opportunity to extend my thanks to all.

Dr David Grant CBE
Vice-Chancellor

This was the year that...

Professor Robert Huber, Nobel Prize winner for Chemistry (l), oversaw the creation of a new crystallography laboratory led by Dr Matthias Bochtler (r).



Jane Hutt, Minister for Children, Education, Lifelong Learning and Skills, praised the University's Frank Buttle Trust Quality Mark for supporting looked after children and those leaving care.



Professor Roger Falconer showed Jane Davidson, Minister for Environment, Sustainability and Housing, Wales' first physical model of the Severn Estuary in the School of Engineering.



The University launched one of the largest supercomputer clusters in the UK dedicated to research.



The new Cardiff University Simulation Centre opened. The Centre includes an interactive human patient simulator.



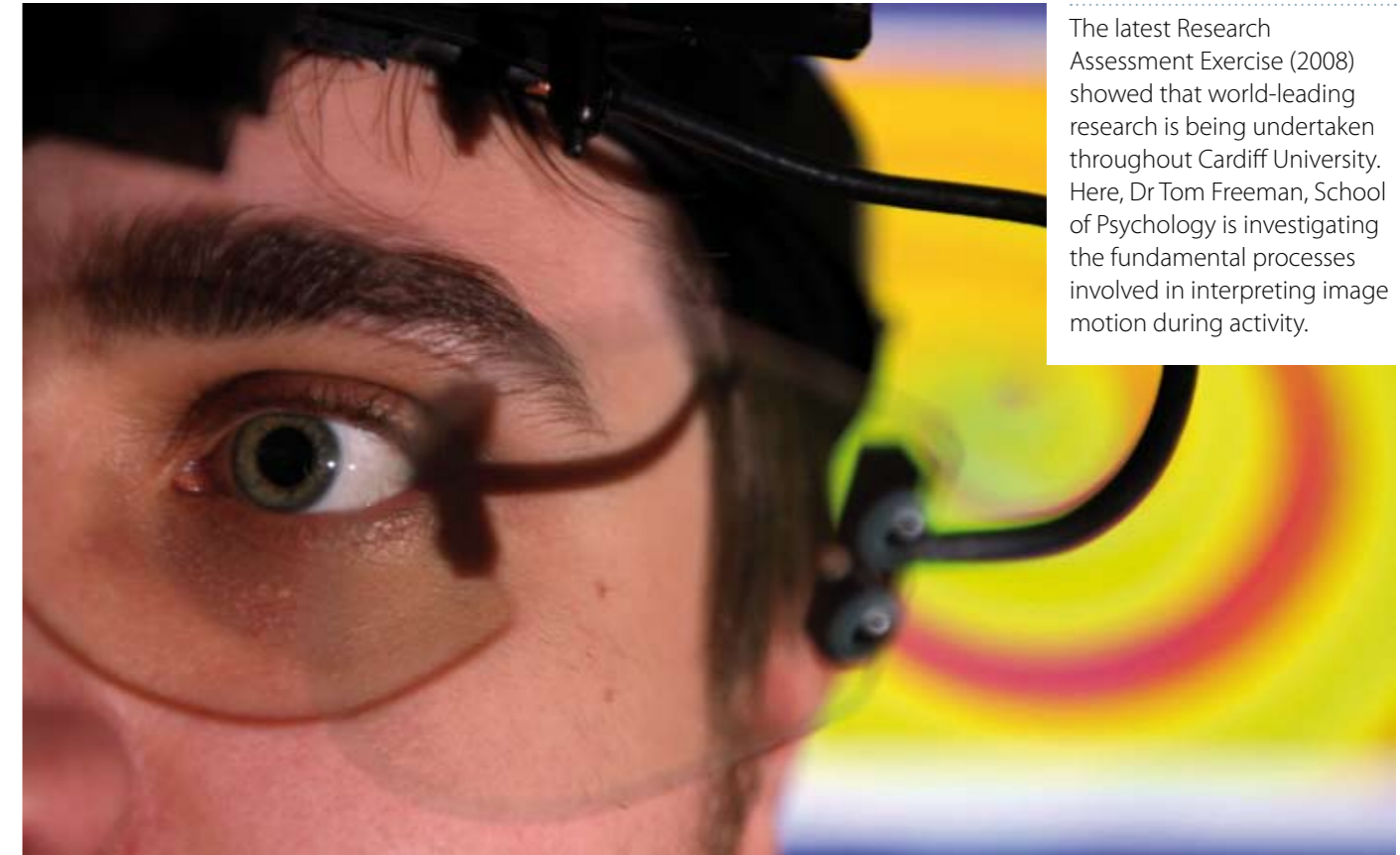
The University staged its biggest and best ever presence at the National Eisteddfod with partners Techniquet.



The National Eisteddfod 2008 Crown was sponsored by the University.



The Beacon for Wales was officially launched by the First Minister Rhodri Morgan and the first projects were announced.



The latest Research Assessment Exercise (2008) showed that world-leading research is being undertaken throughout Cardiff University. Here, Dr Tom Freeman, School of Psychology is investigating the fundamental processes involved in interpreting image motion during activity.

A year of events and celebrations to mark the 125th Anniversary of the University culminated in a glittering concert at the Wales Millennium Centre.



Mary Robinson, former President of Ireland, delivered the first Hadyn Ellis Distinguished Lecture, a tribute to former Deputy Vice-Chancellor Professor Hadyn Ellis.



A Reflection Day was held in honour of Professor Archie Cochrane, a pioneer of modern medicine who worked in the forerunner to Cardiff's School of Medicine.



Vice-Chancellor Dr David Grant addressed a major science and technology conference on a visit to the US which also included the signing of an agreement with the Ivy League's University of Pennsylvania.



A new £1.6M research unit opened at the School of Dentistry to help tackle dental disease.



World-famous soprano Dame Kiri Te Kanawa, President of Cardiff International Academy of Voice, visited to share her operatic expertise with students.



Dr Nicole Dewandre, a leading thinker on the sustainability agenda, was welcomed to give a public lecture and to discuss how the University can work more closely with the European Commission in areas of sustainability research.



Excellent and relevant research

Professor Teresa Rees CBE
Pro Vice-Chancellor, Research

“Every seven years or so, the independent Research Assessment Exercise gives everyone the chance to see the state of research in all the UK’s universities.

“Cardiff’s results in the 2008 Exercise were excellent, showing strength across the board and many areas where we are world leaders. These included Psychology and Psychiatry. Professional disciplines, including Business, and City and Regional Planning did extremely well, as did the Social Sciences.

“This strength was also demonstrated with some particularly stunning grants won throughout the year from external funding bodies and in the face of some very tough competition. The Centre for Economic and Social Aspects of Genomics has a second major award from the Economic and Social Research Council for its work on the human implications of genetic science. Our world-leading status in Psychiatry and Neuroscience has been underlined with the award of a Medical Research Council Centre in Neuropsychiatric Genetics and Genomics. This will build on our expertise in applying genetics

and genomics to understanding the causes of disorders of the mind and to developing new approaches to these major causes of disability and suffering. We have also just received a substantial award for arthritis research, involving several University disciplines.

“The humanities, too, have won major success. There have been substantial awards on early Indian faiths and Neolithic culture in Europe.

“The Government has made it very clear that universities must follow through in terms of understanding the impact of research on society. Cardiff is already very good at this. We develop brilliant postgraduates who have links with the public sector, industry and the professions. Much of our research has a high impact down the line in medical developments, professional practice and so on. We are particularly strong on public policy and producing evidence-based research for use by the Welsh Assembly Government and other international government and policy bodies. We look forward to doing more to showcase the effects of our research.”



Research Assessment Exercise

Research Power is a measure of research quality and volume – on this important indicator Cardiff is ranked 15th in the UK.

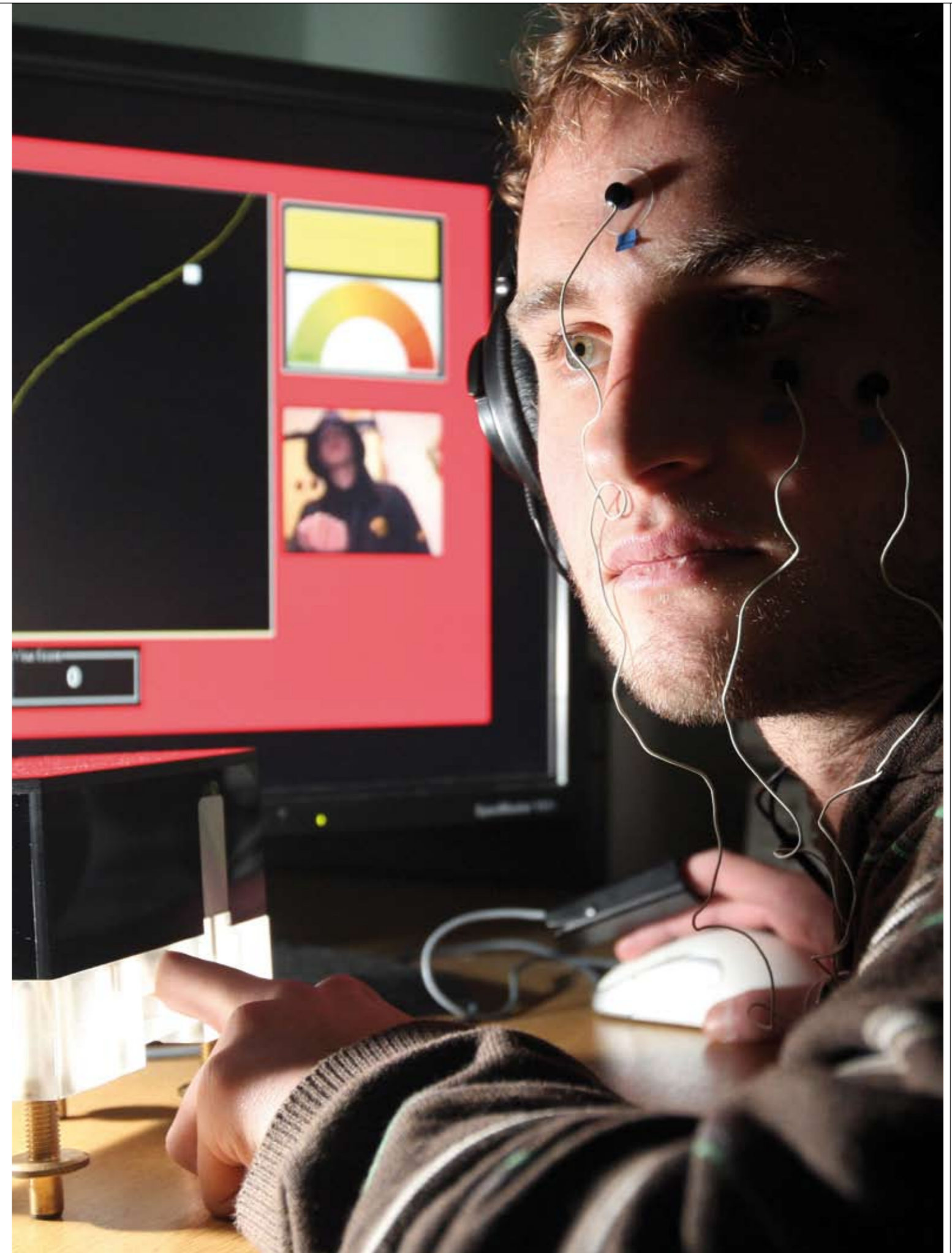
Almost 60 per cent of all research is assessed as world-leading or internationally excellent (4* and 3* the top two categories of assessment)

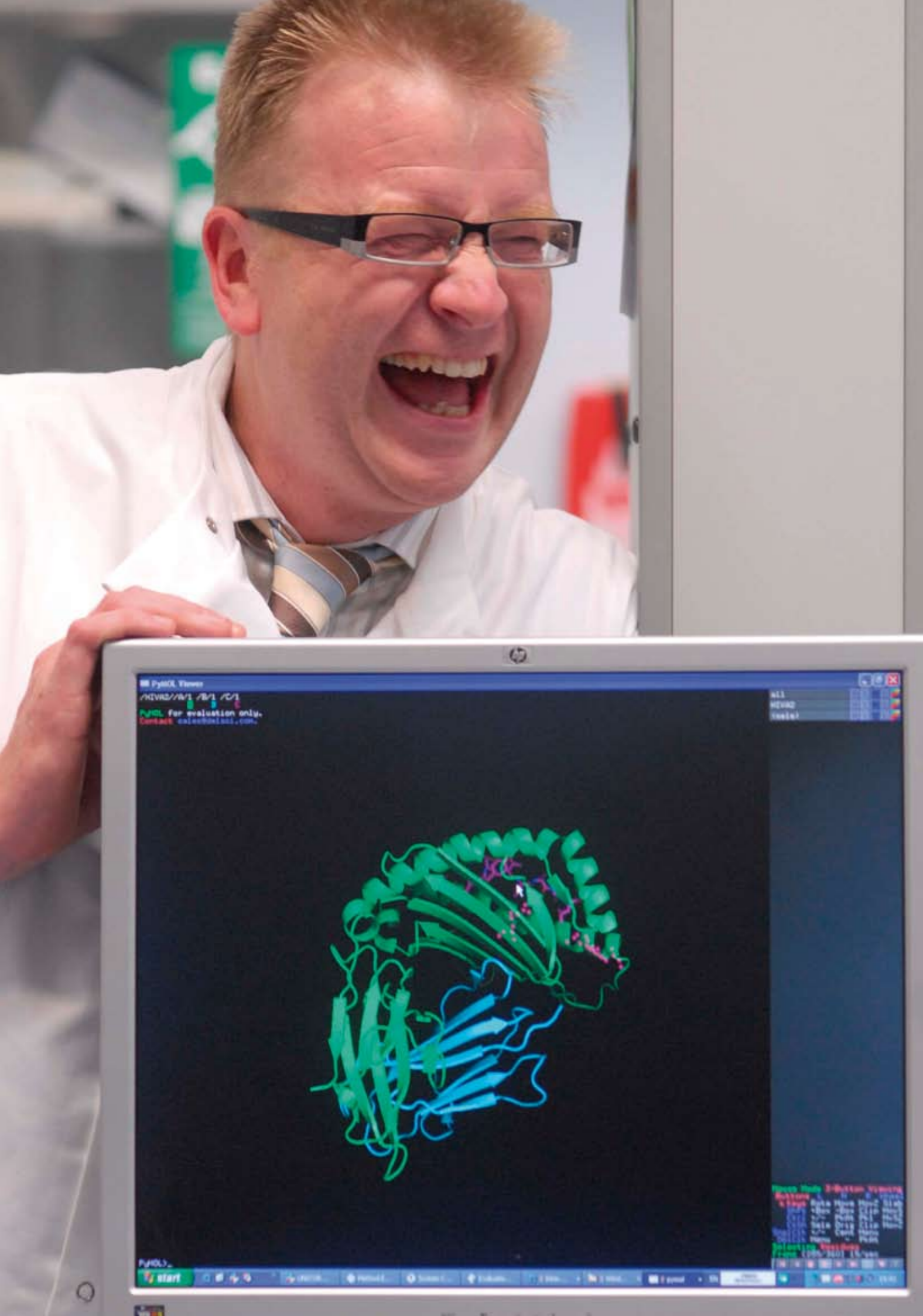
33 out of 34 research areas submitted by the University are shown to be undertaking research that includes work that is “world-leading in terms of originality, significance and rigour.”

More than forty schemes of study benefit from accreditation and input from professional bodies.

Read more at www.cardiff.ac.uk/rae

“ Cardiff’s results showed strength across the board and many areas where we are world leaders. ”





Seeing through HIV's disguises

Professor Andy Sewell is a member of the I3-IRG, an interdisciplinary group at the School of Medicine which carries out internationally recognised research in the areas of infection, immunity and inflammation. Professor Sewell specialises in T-cell research and received widespread interest and global media coverage following a recent paper in *Nature Medicine*.

"We recently generated engineered killer T-cells that can recognise and destroy all known forms of the HIV virus. Our laboratory experiments are showing that we can engineer anti-pathogen and anti-cancer T-cell receptors that improve on natural immune responses. It will be really exciting if this research translates into patients.

"In addition to HIV we are looking to improve immune responses to pandemic infections like hepatitis C and tuberculosis. Furthermore, we are examining autoimmunity, a situation where T-cells attack our own bodies. There is no cure for autoimmune diseases such as multiple sclerosis, Type 1 diabetes and rheumatoid arthritis and they account for a substantial fraction of the total NHS budget. In a nutshell, T-cells and their surface T-cell receptor sit at the heart of most human diseases.

"We are lucky to have some field-leaders in the area of immunology in Cardiff. This creates a very strong research environment where postgraduates and young researchers can develop into the field-leaders of tomorrow. I am thrilled that Cardiff University has identified the area of Infection and Immunity as one of its main research focuses."

Addressing the "so what" factor

Dr James Hegarty's lifetime aspiration is to make some progress in answering the question 'Why do human beings tell and re-tell stories?'

"2008 brought some marvellous developments for me. In July I was informed of my success in applying for an Arts and Humanities Research Council early career award which looks at the formation of understandings of the past in early South Asia as they are reflected on the textual and inscriptional record. The research focuses on the emergence of the family history (chiefly of priests and kings) as a means of thinking about and communicating religious and political ideologies. This is the first such study of these wide ranging and difficult materials and promises to enrich our sense of early South Asian approaches to the past considerably.



"This year's success was hard won and reflects an extraordinary research environment in the humanities at Cardiff from which I have benefited over the last few years. I have been encouraged to address the 'so what?' factor in my research but, crucially, never to seek to apply for monies opportunistically. Beyond this, I have benefited time and again from the sense of focus my colleagues generate and their 'artisan mentality'. The offering of classical languages to undergraduates for example has meant that I am able to work on a daily basis, even during term time, on texts that are significant to my research. It also allows students to be brought directly into my research activities.

"I feel very much as if I have been 'nurtured' in this environment. This nurture was based on a powerful combination of a sense of vocation combined with a concern to make humanities research accessible to all."

“

This year's success reflects an extraordinary research environment in the humanities at Cardiff.

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Imaginative and inspiring education

Professor Jonathan Osmond
Pro Vice-Chancellor for Education and Students



“Cardiff University can be confident in its commitment to imaginative and inspiring education. There are excellent examples across our academic schools of innovative teaching, learning infrastructure, and fieldwork and external placements. Last year also saw the pleasing outcome of the Quality Assurance Agency’s institutional review of the University. There were a few useful suggestions about areas where we could develop, but otherwise the result was extremely positive in its assessment of our policies and practices. We can be grateful to everyone involved in the preparation of our submission, including colleagues in the Registry, and the Students’ Union.

“The past year has seen the opening of the new lecture theatre building on the Heath Park Campus, offering a modern, large-capacity theatre as well as smaller, flexible teaching spaces. This was the venue in January 2009 for a highly successful celebration of student achievement in the fields of academic projects, volunteer work, and sporting and cultural activities. Plans are well in hand for the building of a new Centre for Medical Education on a site close by.

“The Postgraduate Certificate of University Teaching and Learning is now well established among the University’s new teaching staff. They participate in a rigorous programme and also conduct projects on various aspects of educational practice, which are described in presentations to a wider academic audience.

“A feature of Cardiff’s teaching provision, particularly in the final years of degree courses, is its relation to research. The Cardiff Undergraduate Research Opportunities Programme awards funding on a competitive basis for projects involving undergraduates. Our taught postgraduates and postgraduate researchers are, naturally, very much part of the research culture, and the four graduate schools, along with the new Dean of Graduate Studies, Professor Terry Marsden, have done much to develop this.

“We remain a major education provider for the professions – in several cases the only one in Wales. Our medical students, for example, are on placements throughout Wales and so are already contributing to the health service as they train. The University wants to continue educating professionals throughout their careers and over the next year will be looking to develop the existing work in our professional schools in this regard.

“Another priority is the development of e-learning. We have conducted a Higher Education Funding Council Wales-funded study on our existing provision. We now want to broaden the range of available methods and materials through the University’s Modern Working Environment programme and to create a more flexible environment for virtual links between staff and students. Much more effective use will also be made possible of our excellent library and IT facilities.”

“ Cardiff University can be confident in its commitment to imaginative and inspiring education.

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Education for all

Carwyn Shires is a second year medical student who completed Cardiff’s ‘Step-Up to University’ initiative.

“I grew up in Merthyr Tydfil, South Wales and got involved in Cardiff University’s ‘Step-Up’ scheme after a member of the widening access office came to my school, Cyfartha High, and gave a presentation about it. The big attraction was that the project meant that I could find out more about medicine – the subject I’d always wanted to study.”

The ‘Step-Up to University’ scheme motivates, informs, raises attainment, supports and stimulates university applications from people in groups that are traditionally under-represented in higher education. A particular focus is students in year 11 of school with whom the team builds relationships and provides support over a three year period. It uniquely offers students membership of a community with shared interests and shared goals – those of succeeding at school and progressing to university.

“I had fantastic experiences on the Step-up scheme and gained so much out of it. I got lots of really good advice and I also had a student mentor which is a great idea as I could ask questions about the University, applications and other areas. It was excellent preparation for university life.

“The summer school really gave me the chance to taste medical life at Cardiff, and the taste I had was very good. I really liked the course structure, especially dissection. We had a chance to experience this on the summer school and this was one of my big reasons for choosing Cardiff to study medicine.

“My two years at Cardiff so far have been incredible. I’ve loved making new friends and coped with the challenge of looking after myself. The early clinical exposure as part of my course has been brilliant.”



A step-up for young people

The University’s Step-Up scheme includes GCSE revision classes, subject taster days and residential summer schools.

More than a thousand pupils from 35 secondary schools are engaged in the three-year schemes.

Support is provided by more than 50 University student mentors and 100 student ambassadors.

A total of 424 pupils completed the scheme in 2008.

Of these more than 15% achieved grades to secure a place at Cardiff and a further 30% entered other universities.

Last year almost 21,000 contact hours were dedicated to the pupils engaged in the scheme.



Listening to students and helping them learn

Dr Haley Gomez has been at Cardiff University for 11 years as a student and member of the academic staff – “it gives me a unique point of view (and sometimes a lot of sympathy) when it comes to teaching.” Her research is based on understanding the formation and evolution of cosmic dust.

“The difficulty is to ensure that the research we carry out affects the student-learning experience; not only in that research ‘leads’ the module content but that it is also used as a tool for learning.

“In Astronomy, this is rather simple since the field advances so much. I tell the students that even by the end of the term, astronomers may have revealed a new understanding or result, which will turn the whole thing upside down. Consequently, I find students are scouring science websites to look for the new dark energy candidate or the results from the latest space telescope and

feel that they are able to investigate the science as it happens.

“The School of Physics and Astronomy has capitalised on the science pioneered by academics, including our Instrumentation Group which is currently waiting with baited breath for the launch of their innovative camera on the Herschel Space Observatory. The results from this camera will no doubt feed into the taught astronomy and our research projects where students get a chance to build instruments and test new technologies as well as analyse precious space data.

“I hope that I’m the same as the academics who helped me get this far; the ones who listen to students and want to be involved with helping them learn and develop while they’re here. My proudest moment was getting a medal for “Most Differentiable Lecturer” at our student society ball. I’m not sure I understand what that means but it was nice all the same.”

“

It gives me a unique point of view when it comes to teaching.

”

Putting knowledge to use

Professor Ken Woodhouse
Pro Vice-Chancellor, Engagement

"Until quite recently, everyone used to describe innovation and engagement as the University's 'Third Mission'. We've moved away from that because it implies engagement is an add-on to our core activities. In fact, engagement is absolutely central to the function of the University.

"This covers a very wide area. It ranges from our business-focused activities like spin-out companies, inventions, patents and consultancies to corporate social responsibility, including our relations with the City Council and community in Cathays. It stretches from the next door neighbour to China and the US.

"There has been a lot of activity over the last couple of years. Our interaction with business is at all levels, from some of the world's biggest companies, like IBM, to smaller local enterprises through the Cardiff University Innovation Network. We are making these relationships a

strategic priority and more supportive of the local economy, particularly in the current financial climate.

"Our relationship with Fusion IP is a very good example of working with academics to develop their ideas and make them commercially viable. We have also set up the Business Service Unit which will provide a one-stop-shop for business and commerce wanting to work with us.

"We are doing a lot more work on the public understanding of science. The Community Engagement Team has been helping schools interact with scientists and their work. We have been hugely successful with the first year of the Beacons for Wales project, which is finding imaginative ways to link local communities with our research. This is one of only six throughout the UK and demonstrates how embedded engagement now is in the University culture.

"Our School of Social Sciences has been advising the Welsh Assembly and other national and international bodies on a number of aspects of policy. Meanwhile, the School of Journalism, Media & Cultural Studies has been working with the BBC on their regional services. We are extremely active in the cultural life of Wales, exemplified by our very effective Welsh language service, teaching everyone from beginners to second language speakers.

"These are real successes and we intend to build on them. In relation to the current economic climate, we will be undertaking a big work programme on the employability and entrepreneurship of our students. We want to encourage and develop our commercial and industrial collaborations.

"Above all, we want to find ways of showing clearly to the public and politicians the excellence, impact and value of what we do. Universities are hugely important academic, economic and cultural drivers. That's not always understood and we need to demonstrate that on everything from inventions and patents to cultural enrichment."



Image opposite: First Minister Rhodri Morgan launching the Beacon for Wales with Bruce Etherington, Beacon for Wales manager and director of Science Made Simple, Wendy Sadler.



Universities are hugely important academic, economic and cultural drivers.



Impacting the Economy

The University is one of the largest employers in the Cardiff City-Region with around 6,000 staff.

More than 40 professional bodies work with the University to equip graduates for entry to the professions.

The University's Student Enterprise Centre helped more than 600 students last year with start-up guidance and business skills sessions.

1,100 Welsh companies received advice and assistance through Cardiff-led European Regional Development Fund projects in 2006-8.

More information on Cardiff University services for business is at www.cardiff.ac.uk/business.



"If you ever encounter a polar bear use warning flares and a fast snow-scooter."

An unlikely scenario for most of us, but helpful advice when given to Dr Peter Brabham, exploration geophysicist and lecturer in the School of Earth and Ocean Sciences.

"It's something I was taught whilst mapping the permafrost on Svalbard in the Arctic Circle. On Svalbard you're not allowed out in the field until you have passed the polar bear survival course which includes as a last resort high-velocity rifle target practice".

Peter undertakes research into the application of applied geophysical techniques to civil engineering, environmental analysis, mineral resources and archaeology, as well as teaching and supervising MSc and PhD researchers.

"Good research supervision is important. In my research area you develop a strong bond with your research student as you spend a great deal of time together gathering field data, which is hard physical work. My first PhD student Rob McDonald after completing his doctorate along with fellow Cardiff B.Sc. Exploration Geology graduate Nick Russill formed the award winning Cardiff-based Geophysical surveying company TerraDat. It's been fantastic watching the company grow over the past 16 years.

TerraDat now employs a large number of Cardiff geosciences' postgraduates and graduates and also sponsors a PhD study and MSc industrial projects at the University.

"South Wales is prone to landsliding, in fact we have one of the highest densities of landslides in the whole of the UK. Traditionally, when a landslide occurs, engineers drill bore holes to get an understanding of what's happening, but that's logistically difficult, expensive and time consuming. We're working with TerraDat to use time-lapse geophysics and high resolution 3D airborne surveys so we can gain a rapid understanding of the amount / depth of movement and in particular the amount of water in a landslide. This information in turn will help engineers quickly assess the likely risk and design an effective ground engineering solution.

"Our partnership with TerraDat since its formation in 1992 has been great and continues today with joint developments of new equipment and new surveying strategies – we have a truly symbiotic relationship."

When not teaching, researching or liaising with business, Peter is also a keen photographer, an interest he put to good use during the University's 125th Anniversary photo competition in which he picked up the first prize in the "My Work" category (see above).

Open for business

Cardiff University graduates Nick Russill and Rob McDonald founded TerraDat in 1992. A year later Nick was the finalist for Wales in the Worldcom New Business Achievement Awards and in 1998 became "Young Welsh Entrepreneur of the Year". He's never looked back and the company is now a European leader in state-of-the-art geophysical site investigations.

"The benefits of working so closely with Cardiff University are firstly it enables us to implement our commercial ideas and our academic ideas in a very convenient package. We have no time constraints which we have in commercial projects.

"Our partnership has so far succeeded in delivering a system which is cost effective and has a rapid response capability over traditional, costly aeroplane mounted photography and invasive drilling. This involves novel techniques, such as small hand-controlled helium balloons with digital cameras and GPS controlled high resolution geophysical surveying. With the threat of climate change bringing on more severe rainfall, active landslides are likely to become more common in the UK.

"The second advantage of working with the University is in our recruitment and staff. A lot of our staff actually studied and did postgraduate study degrees at the University.

"As we've grown we have to concentrate on commercial focus and that's where the value of academic collaboration really does become a big benefit to us."



Entrepreneurs flying high

Third-year Business Studies student, TJ Wheeler is the founder of JumpMAD – a business helping charities organise skydiving events. The business was established with advice, support and office space provided by the University's student enterprise service.

"I know from my own experience of organising charity skydiving events of the mountains of paperwork involved. Armed with the skills, knowledge and drive I'd gained from my studies I set-up JumpMAD, Jump to Make A Difference. The aim of JumpMAD is simple – for a fee, we deal with all the paperwork and practical arrangements for charities and fundraisers wanting to organise skydiving events.

"With help, advice and support from Cardiff University's student enterprise service we learned to develop our idea and, more importantly, translate the idea in to a real business. Cardiff University provided office space in the form of Centerprise, run out of the student enterprise centre. Without offices and meeting rooms we'd be running our business from a phone box.

"All those employed in the business are students and we hope to employ as many students as possible. Equally it's great experience as it's dealing with the harsh reality of the world, something you simply don't gain just from a degree course.

"What makes JumpMAD unique are the values by which the business operates. The business aims to put people before profit and give something back to charities and local communities. Over the next two years we hope to raise £250,000 for charities through our work."



Student volunteers making a difference

Rachel Payne, a history student in the School of History and Archaeology, is the current Chair of Student Volunteering Cardiff (SVC). The student-run charity coordinates more than 1,000 student volunteers working on more than 40 different projects. This makes for a very busy and challenging university experience but Rachel would not have it any other way.

"I have been involved in volunteer work since I was fourteen, it is something that has always appealed to me. Since joining SVC, I have taken part in a range of projects, including tutoring primary school pupils and teaching dance in an after school club.

"What I like about volunteering is that it allows students to really get involved with the local community. We become part of the city instead of just living here for a few years before moving on. My housemate and I regularly visit Rhys, an eleven year old boy with learning difficulties, as part of a befriending project. His family have become like a family away from home and I hope that, after we've graduated, we will still come back to visit him.

"My degree course is very rewarding and I have learned to keep a balance between my university work and my volunteer work. The permanent staff at SVC provide

much needed support throughout the year; they are the foundations of the entire organisation.

"SVC makes a huge contribution in Cardiff and the surrounding areas in both economic and social terms. Our projects are aimed at helping disadvantaged and vulnerable people in local communities but it is definitely a two-way process. We give a lot to the people of Cardiff but we get so much back ourselves in return".

Student Volunteering Cardiff

Contributes an estimated £990,000 to the local economy.

SVC is one of the UK's largest student volunteering organisations.

Students spend 80,960 hours volunteering annually

837 people are helped each week

40 projects support:

- Education
- Children and Young People
- Older People
- Mental Health, Homeless

Developing international partnerships



Louise Casella
Director of Strategic
Development

"Our vision is to be one of the world's leading universities. Our international activity allows us to benchmark just how well we are doing against that target. It gives us a perspective that extends beyond Cardiff, Wales and the UK, allowing us to test rigorously whether what we do is truly at the forefront of academic work.

"That international perspective also offers an insight into what are the most crucial issues facing the world. And with our international research partners we will be playing a part in tackling some of the biggest global issues going forward.

"Our international partnerships cover both teaching and research. Just this year the School of Engineering has signed a Memorandum of Understanding with the University of Kuala Lumpur, while the Business School's family of international partners has extended to enfold the University of Business and Economics in China and Beijing Normal University.

"There is, of course, also our strong and long-standing relationship with Xiamen University in China, particularly through

the School of City and Regional Planning. This has flowered with the creation of the Cardiff Confucius Institute, which has enjoyed a successful first year making courses on Chinese culture and language available to staff, students and local business.

"Each year we refresh our staff and students with new recruits from around the world. The benefits of this flow in two directions. The arrival of the fresh influx of international students every year provides impetus not only academically, but socially and economically in the city, through their contributions to culture and the community. While after graduation our talented Cardiff alumni – both international and from the UK – put their expertise to work right across the globe.

"While we have a wide perspective on the world, it needs to become wider. We have achieved a lot of success in building relations to the East – in China, India and Malaysia. Looking to the West however, while numerous individual staff and research groups have built successful partnerships in the Americas, at University level we need to do much more to build on this. The Vice-Chancellor led a visit last year with Sir Martin Evans FRS to promote the University in New York, Philadelphia and Washington. We're building on this further this year with return visits, university level partnerships, research links, and even a tour by the Rugby Club! Our target is to establish Cardiff University's excellence in research and teaching firmly in the minds of a US audience.

"Cardiff University is already an international institution. We look forward to building our world-leading research in collaboration with our partners and continue delivering teaching programmes to attract a global audience. We are now on the world stage, and we have got to deliver on it."

“

We look forward to building our world-leading research in collaboration with our partners.

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Developing international partnerships



Sandra Elliott has had the opportunity to travel to some far-flung parts of the globe since joining the University in 2005 as Director of the International Development Division. Her role involves responsibility for the recruitment of international students, helping to forge links with overseas institutions and enhancing the reputation of the University overseas.

"International development means much more than the recruitment of international students to the University. While that is thriving with more than 2,700 students from all continents studying at Cardiff, there has been significant progress in other areas in the international arena.

"Collaboration with international partners is critical to the success of Cardiff. That collaboration can take many forms, be it research with overseas partners, academic exchanges programmes, student exchange or teaching collaboration. Cardiff has made progress on all of these areas in the last year.

"As the University seeks to develop international opportunities for all students a number of new exchange programmes have been agreed including one with the University of Pennsylvania, and Cardiff students have travelled for study at the State University of New York for the first time. These arrangements build on a very strong exchange programme within Europe under the Erasmus scheme which now also incorporates work placements in businesses across many countries.

"In teaching collaboration a new agreement with Taylor's University College in Malaysia will lead to the collaborative provision of pharmacy degree programmes based on the Cardiff curriculum."

“ Collaboration with international partners is critical to the success of Cardiff. ”

Optometry's global eyecare role

As part of the School of Optometry and Vision Sciences' commitment to international engagement, Director of Teaching Dr Paul Murphy continues to pay regular training visits to Ethiopia to help the estimated 380M people worldwide improve their sight.

"Having spectacles is something that we all can take for granted in the UK, but for many people in the world it's just not possible to get them. Not having spectacles is a serious cause of blindness worldwide.

"Cardiff University's School of Optometry and Vision Sciences has teamed-up with the charity Vision Aid Overseas (VAO) to provide eyecare training for practitioners in the developing world. Along with my colleague Professor Rachel North and two VAO optometrists, we have helped with the training of ophthalmologists at the King Menelik II Hospital in Addis Ababa, Ethiopia.

“ The work in Ethiopia is only a small part of Cardiff's role as an international University. ”



"During our regular visits we provide lectures and practical training sessions in the basics of eye refraction and spectacles. As a result, the ophthalmologists have acquired new skills and the importance of training in ocular refraction has been emphasised.

"The work in Ethiopia is only a small part of Cardiff's role as an international University. The work has encouraged the School to take a greater role in the development of optometric education both in Europe and across the world.

"Beginning this year, the School is assisting the University of Novi Sad in establishing the first optometry course in Serbia. We are also providing support to postgraduate optometric education in Germany with the University of Applied Sciences in Jena. In Malaysia, we are collaborating with the Management and Science University in the development of their new optometry course by providing places for their best students on our own BSc Optometry course."



Delving into history

Originally from Thessaloniki in Greece, Panagiota Manti came to Cardiff in 2000 to study an undergraduate degree in Archaeological Conservation at the School of History and Archaeology. She returned in 2005 to begin PhD research on Greek copper alloy helmets. So what makes a Greek researcher come to Cardiff to study Greek artefacts?

"I wanted to examine the technology associated with the appearance of ancient Greek helmets and Cardiff really stood out as the best place for me to do that.

"The School's in-house facilities for archaeological and conservation science, including a scanning electron microscope and x-ray diffraction facilities, are second-to-none. Through my work here, I gained access to equipment at Rutherford

Appleton Laboratory run by the Science and Technology Facilities Council. This was a fantastic opportunity for me to utilise neutron based techniques for the non-destructive analysis of museum objects.

"As an undergraduate, I realised that teaching here aims to promote the balanced development of technical and theoretical skills helping researchers to build up a professional curriculum. The School's postgraduate funds proved to be of great financial assistance to support that.

"The School's research profile was suitable for my project which is interdisciplinary in nature. As well as my supervisor's expertise in conservation science, I have the chance to interact with a wide variety of experts. Archaeologists, historians, conservation scientists – Cardiff unifies all these specialties under the same roof."

A positive working environment



Professor Terry Threadgold
Pro Vice-Chancellor,
Staff and Diversity

equality duties like age, gender, race and sexual orientation. There are pilot studies under way in nursing, social science, medicine and philosophy which are looking at these issues.

"The University is also applying for the Athena Swan Bronze Award in May this year. The award is for support for women in the Science, Engineering and Technology (SET) disciplines but the University as a whole must achieve the Bronze Award before any of the SET disciplines can apply for the Silver or Gold Awards. For the Bronze Award we have to demonstrate that we value gender equality across the University.

"We also want to make greater use of the research conducted in the University into these issues. Staff within the University have researched how women in the SET disciplines are portrayed in the media, the way maternity leave impacts on academic careers, and women in science. There is a huge resource of interesting research which we have never applied to how we actually manage the University and its staff, and we should bring those things together.

"We have two other major targets for the coming year or so. A number of Schools and Divisions have already achieved Investors In People status. We will be conducting a mock assessment, interviewing some 500 staff, with a view to preparing an application for University-wide IIP status. This links to the work we are already doing in building management capacity and around communication.

"The second will be the response to last year's staff survey. This took a lot of preparation, with questions trying to assess how much people understand about the University's goals and where they think we are. We have just started work with the University Lean team on an action plan which we hope will make a real difference, and which can be delivered in time for the next staff survey in two years' time."

"The University's Positive Working Environment initiative is all about working to produce a workplace where staff are managed well, and confident and happy in what they are doing.

"There are three main strands – communication, developing management capacity, and equality and diversity.

"Unless you have the fundamentals of equality and diversity in place, you never reach the positive working environment the University is working towards. It's about a way of doing things which involves courtesy and respect and making sure we don't consciously or unconsciously discriminate in our everyday working lives.

"We've made a lot of progress, particularly in the last 12 months. For the first time, we have policies and action plans for all the major equality strands, and we will soon be working on putting all the existing schemes together into a single equality and human rights policy. This will allow us to move forward with a more complex and multi-faceted view of people's identities, rather than thinking of them in terms of one single characteristic such as race or gender.

"There are a number of initiatives in the Equality and Diversity area. The University's Registry is working on an inclusive curriculum initiative. We have already worked on disability and the curriculum. Now we need to look at the curriculum in relation to the other

A good work life balance

Dr Isabelle Durance undertakes research on the ecological impact of climate change within the School of Biosciences. She is also the mother of four children, the youngest of whom is four years old. A fellowship from the Daphne Jackson Trust, a charitable organisation whose Fellowship scheme supports women returning to careers in science or engineering, combined with support from the University enables her to find a positive work-life balance.

"Having previously worked in France as a lecturer, I returned to work last year, following the latest in a series of career breaks to raise my children. It is easy to feel like a stranger when you are away from academia for any length of time, so the support I've had from my colleagues here has been really important. The administrative staff in particular have been so helpful.

"My fellowship has allowed me to come back to work part-time. This is great because it means a gradual return to my research work whilst also having the flexibility to be around for my youngest child.

"The fact that Cardiff University supports the work of the Daphne Jackson Trust is a sign to me that it is committed, in a very practical way, to equal opportunities and the positive working environment.

"I adore my children and am also very passionate about my work. I am extremely grateful to be able to devote time to both, this is an opportunity that few women have and it allows me to feel fulfilled both personally and professionally."

“

Cardiff University is committed, in a very practical way, to equal opportunities and the positive working environment.

”



Changing lives

Nobel Laureate was scholarship student



"In order for Cardiff University to continue to develop ground-breaking research and to provide an internationally-renowned education, it is essential that we offer an environment which attracts the very best students and staff. Philanthropy can provide the vital additional funding which we need to help us attract, and support, the next generations of bright minds.

"During my time as a student, I was extremely fortunate to receive a number of scholarships, which helped me enormously. Such awards help to relieve some of the financial burdens and the additional pressures that university life can place upon a student and their families. Later on in my career, as an academic researcher, my work has benefited considerably from grants and donations.

"Cardiff University wants to be able to help future and current students and staff to benefit from a world-leading university experience – but to be able to do so, it needs your support."

Professor Sir Martin Evans FRS, School of Biosciences was awarded the Nobel Prize for Medicine in 2007.

For further information about the various ways in which you can support the University, please visit www.cardiff.ac.uk/giving



Partnerships providing mutual benefits

Luis Juste, Santander Universities Director in the UK.

"Abbey, part of the Santander Group, first introduced the Santander Universities scheme in to the UK in 2007, which has since gone from strength to strength. Not only have we signed collaboration agreements with more than 30 universities, 2008 saw us welcome our first Welsh partner.

"Agreements such as these enable Santander to forge much closer relationships with higher education. For Cardiff, we believe, it has meant that we have been able to directly help graduates of the future by setting up support for students, researchers and entrepreneurs. For us, it means promoting the transfer of knowledge and international mobility of students, researchers, and academic teaching staff and fostering the University's links with the international institutions that are already part of the network.

"Since 1996 Santander Universities has been the cornerstone of Banco Santander's Corporate Social Responsibility and Banco Santander has signed more than 700 agreements with universities in Spain, Morocco, Latin America, Portugal, Russia, China, the United States and the United Kingdom. In 2008 alone Santander Universities helped create more than 2500 collaborative projects, 14,500 scholarships and awards and 35 business incubator projects allowing the start up of 300 new university businesses.

"We have already seen the benefits working in partnership to develop academic projects can bring, and we are looking forward to working with Cardiff to

develop overseas research opportunities, exchange scholarships, student enterprise schemes and student volunteering initiatives, all of which will change the lives of young, aspiring people.

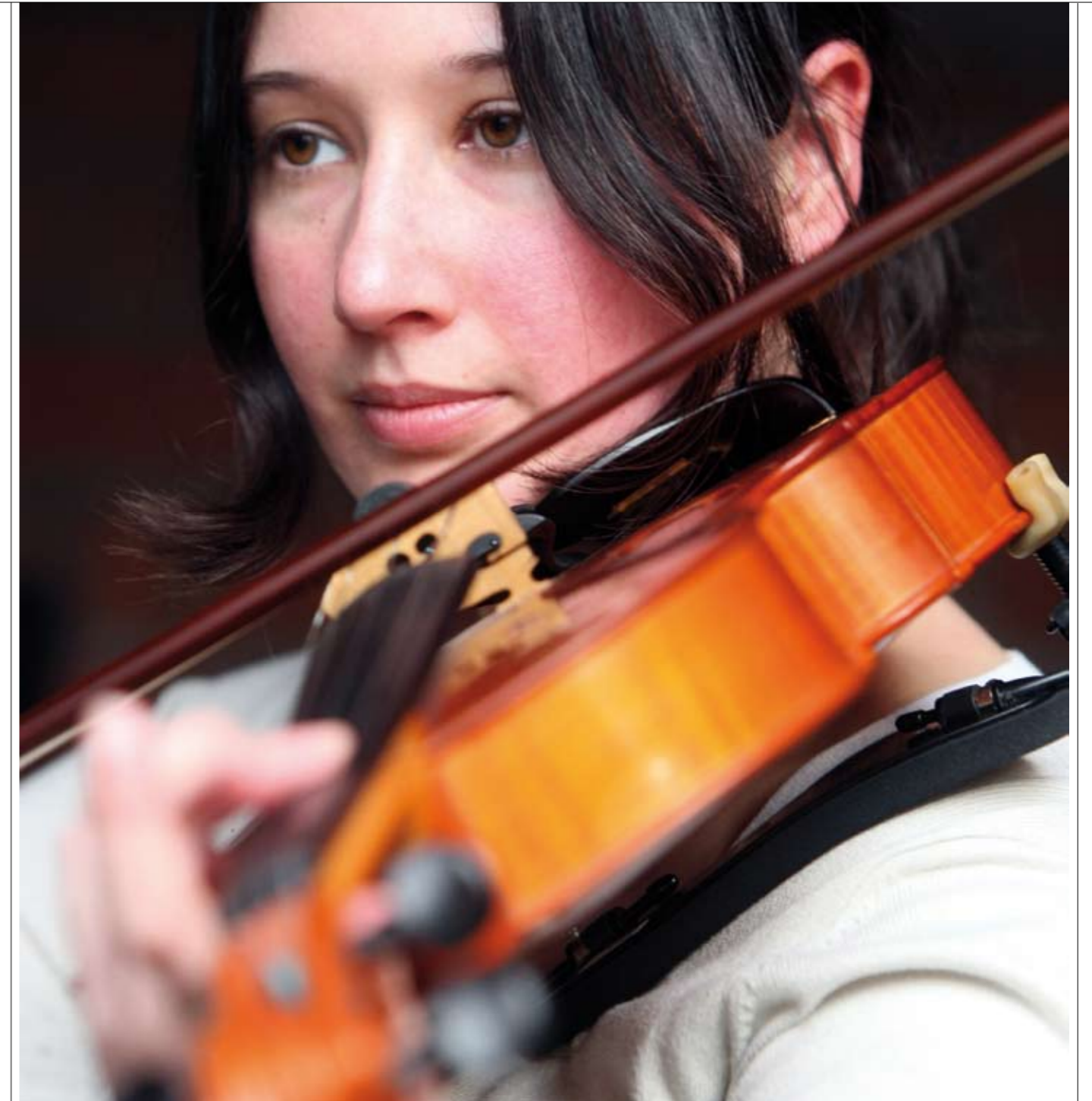
"Both the University and Santander share a common goal to support education, international links and knowledge transfer that delivers global benefits, to the University and society as a whole."

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 Last year supporters of the University donated more than £600,000 in philanthropic gifts.

 Activities across the world for alumni are growing each year. More than 1,200 alumni came together for special 125th Anniversary events in Cardiff, London, Australia, Hong Kong, Japan and USA.

 More than £100,000 was raised towards new scholarships, bursaries and prizes, as part of the 125th Anniversary Campaign. Cardiff will now be able to provide even more opportunities for students and researchers to realise their potential at Cardiff.

 Cardiff will be investing millions of pounds in an ambitious programme of capital investment to create interdisciplinary research space and laboratories, state-of-the-art lecture theatres and innovative learning environments for our students and staff.



Achieving musical ambitions

Contemporary music and culture research student, Alexis Paterson is a recipient of a Richard Whipp Studentship. Co-funded by private donations, the one-off three-year award provides financial aid to help Alexis undertake interdisciplinary PhD studies in postmodernism, minimalism and new musicology.

"The advert for a Richard Whipp Studentship could not have come at a better time for me.

"After graduating with my MA at Exeter, I was certain I wanted to continue research to PhD level, but the cost was prohibitive. Not only did the Richard Whipp Studentship allow me to achieve this ambition but to do this in a high-calibre institution where I feel I am being constantly challenged. I am sure that completing a PhD will open up career pathways that would not otherwise have been available, and recent teaching opportunities have encouraged me to

pursue a career in academia after the completion of my thesis.

"Cardiff is a great environment to study. I have found so many good opportunities to develop research skills through the graduate centre, and with a healthy research community within the department and the University as a whole, there is solid support which acts as a stimulus for my research.

"This has been an amazing opportunity, and I can't offer sufficient thanks to those who have made this possible."

Appointments and Distinctions

Queen's Birthday Honours 2008

Professor Brian Duerden, School of Medicine, appointed a Commander, Order of the British Empire (CBE) for services to medicine and charity.

Professor Alan Burnett, School of Medicine, appointed an Member of the Order of the British Empire (MBE) for services to medicine.

New Year's Honours 2009

Professor Wendy Hall, Honorary Fellow of the University, appointed a Dame Commander of the Order of the British Empire (DBE) for services to science and technology.



Owain Arwel Hughes OBE, Honorary Fellow of the University, appointed a Commander of the Order of the British Empire (CBE) for his contribution to music and charity.

Mr Derek Jones, Director of Business and Strategic Partnerships, appointed a Companion of the Order of the Bath (CB).



Professor Peter Wells, Scientific Director of the Institute of Medical Engineering and Medical Physics at the School of Engineering, appointed a Commander of the Order of the British Empire (CBE) for services to healthcare science.

Honorary Fellows

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

Professor John Andrews CBE, an academic lawyer who has made significant contributions to higher education and the legal profession.

Lord Aberdare, Alastair Bruce, the 5th Baron Aberdare of Duffryn. He is one of two executive Directors of Probus BNW Limited, a former Trustee of the National Botanic Garden of Wales, and a Fellow of the Royal Society of Arts and the Royal Geographical Society.

Mr Gerald Davies CBE has enjoyed a distinguished career in rugby union football, representing Wales, the British and Irish Lions, and Cardiff and London Welsh.

Mr Russell T Davies OBE, an acclaimed Welsh television producer and writer best known for spearheading the revival of the popular science-fiction television series Doctor Who, and for creating its spin-off series Torchwood.



Mrs Edna Adan Ismail, founder of the Edna Adan Hospital in Hargeysa, Somaliland. She has a national and international leadership role in improving health care in Africa and the Eastern Mediterranean Region and was the first qualified nurse/midwife in Somalia.



Mrs Margaret McCarter Jervis, the first Cardiff University People's Fellow, an award bestowed as part of our 125th anniversary celebrations on an outstanding member of the South Wales community. She is the founder and operational director of Valleys Kids, a charitable community development organisation.

Professor Júlio Domingos Pedrosa da Luz de Jesus, Professor of Chemistry at the University of Aveiro, Portugal. He gained his PhD at Cardiff University in 1978 and has maintained and developed collaborative novel lines of research with the Cardiff School of Chemistry.

Professor M W (Wyn) Roberts, an Honorary Research Professor with Cardiff School of Chemistry. He was Head of the School from 1987-97 and Vice-Principal of the University from 1990-92. He is recognised internationally for his outstanding contribution to surface chemistry and catalysis.

Ms Carol Vorderman MBE, a television personality best known as the long-standing co-presenter of the Channel 4 game show Countdown. She is also the patron of the Cleft Lip and Palate Association.

Mr Gerard Walsh, Director of Elision Group Ltd, and Chair and Founder of the ARKAGA Trust, London.

Justice John Griffith Williams, a Justice of the High Court assigned to the Queen's Bench Division. He has held a number of senior roles in the judicial system, including Senior Circuit Judge and Honorary Recorder of Cardiff.

Professor Sir Roger Williams has held a number of senior appointments in the Higher Education sector, most notably as Vice-Chancellor of the University of Reading from 1993 to 2002.

Professor Zhu Chongshi, President of Xiamen University, China, is a Professor of Law and Economics and a renowned Chinese banking legal scholar.

Other Appointments and Distinctions

Professor Peter Ade, School of Physics and Astronomy, received the Jackson-Gwilt Medal from the Royal Astronomical Society for his work on new instrumentation designs and manufacturing techniques.

Dr Chris Chambers, School of Psychology, was awarded the Spearman Medal by the British Psychological Society for outstanding published work in *Psychology*.

Professor Sir Martin Evans, School of Biosciences, was awarded the Gold Medal of the Royal Society of Medicine in recognition of his valuable contribution to medicine.

Professor the Baroness Ilora Finlay of Llandaff, an honorary professor at the School of Medicine, was named Peer of the Year.

Professor Siyi Fu, Academic Director of the Cardiff Confucius Institute, received an 'Individual Performance Excellence Award' for outstanding personal achievement at the International Confucius Institute Conference in Beijing.

Professor Judith Hall, School of Medicine, was named Welsh Woman of the Year 2008.



Professor Kenneth Harris, School of Chemistry, has been elected a Fellow of the Royal Society of Edinburgh.

Dr E. Wyn James, School of Welsh, was admitted to the Gorsedd of the Bards at the 2008 National Eisteddfod.

Professor John Gwynfor Jones, School of History and Archaeology, was admitted to the Gorsedd of the Bards at the 2008 National Eisteddfod.

Professor John Loughlin, School of European Studies, has been elected a Fellow of the Royal Society of Arts and also an Academician of the Academy of Social Sciences.

Professor Tony Manstead, School of Psychology, received the European Association of Experimental Social Psychology's Henri Tajfel Award in recognition of his lifetime's achievement.



Professor Terry Marsden, School of City and Regional Planning, has been made an Academician of the Academy of Social Sciences.

Professor Neil McKeown, School of Chemistry, won the 2008 RSC/Society of Chemical Industry Beilby Medal and Prize for outstanding achievements in materials chemistry.

Daniel Meadows, School of Journalism, Media and Cultural Studies, was awarded an Honorary Fellowship of the Royal Photographic Society.

Nigel Morgan, Information Services, was named Information Library Practitioner of the Year by CILIP, the UK professional librarians' body.

Dr Valerie O'Donnell, School of Medicine, won a Marie Curie Excellence Award in recognition of outstanding achievement in her field.

Professor Stephen Palmer, School of Medicine, was awarded the Alwyn Smith Prize from the Faculty of Public Health, the standard-setting body for consultants in public health.

Sir Emyr Jones Parry, Honorary Fellow of the University, was admitted to the Gorsedd of the Bards at the 2008 National Eisteddfod.

Nicki Phillips, director of Postgraduate Healthcare Studies, was appointed as Chief Physiotherapist to Team GB for the 2008 Olympic Games in Beijing.

Professor Bernard F Schutz, School of Physics and Astronomy, was elected an Honorary Fellow of the Royal Astronomical Society for his distinguished leadership in stellar astronomy and gravitational wave research.

Dr Robert Sewell, Welsh School of Pharmacy, was presented with the Anokhin Centennial Medal, Diploma and Citation for achievements in neuroscience and physiology.

Dr Petroc Sumner, School of Psychology, was awarded the first David Marr Medal from the Applied Vision Association.

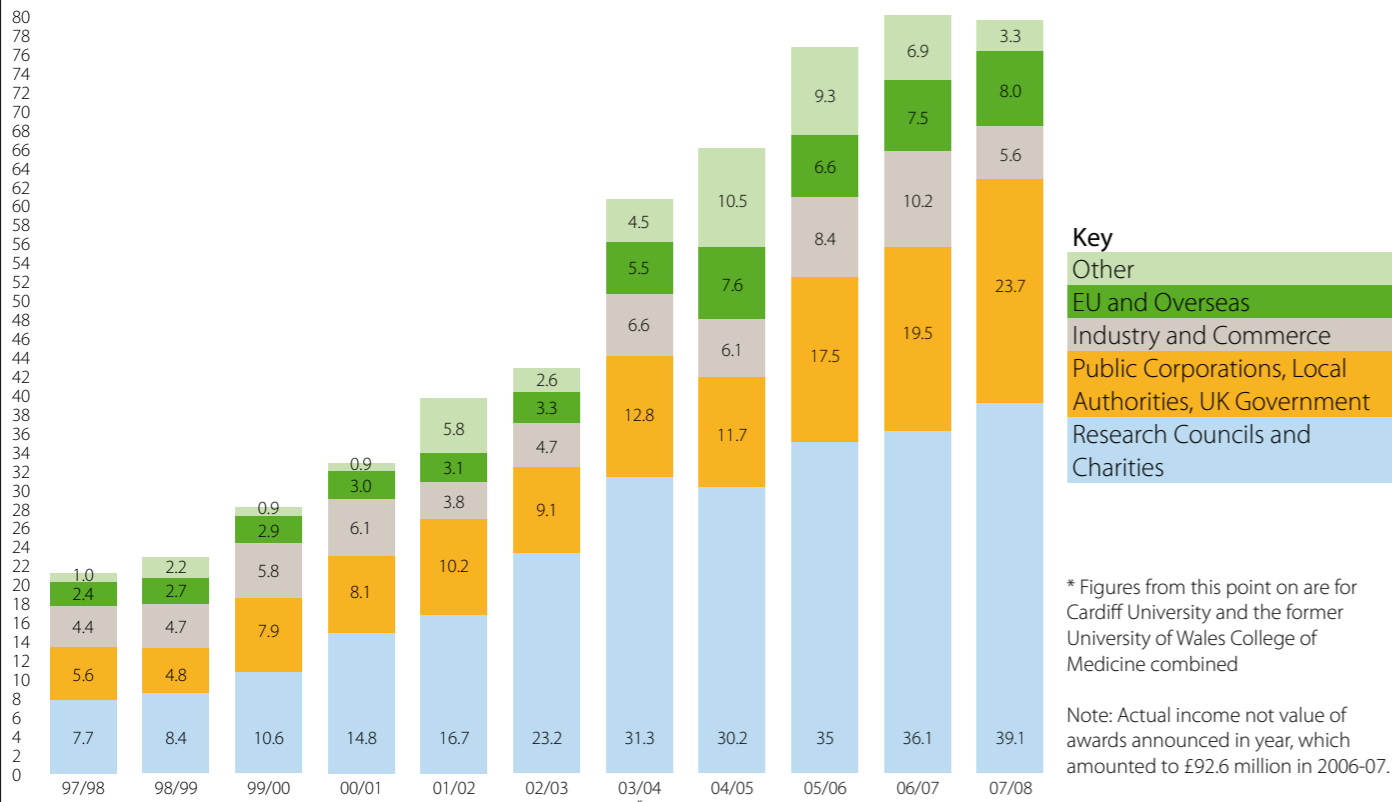
Dr Stijn Smismans, Cardiff Law School, has been appointed Jean Monnet Chair in EU Law and Governance by the European Commission (2008-2013). The Chair is a recognition of excellence in teaching and research in the field of European Studies.

Professor John Tyrell, School of Music, has been appointed a Fellow of the Royal College of Music.

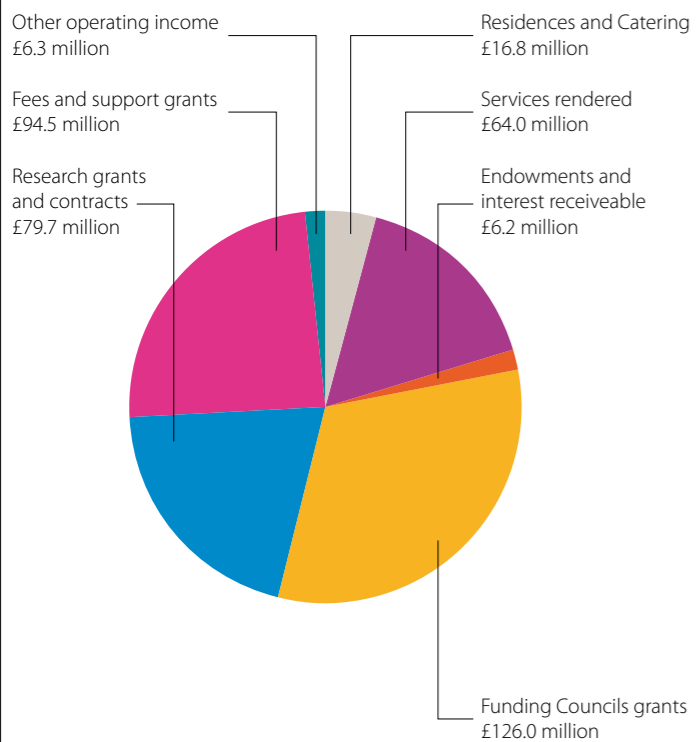
Steve Young, School of Healthcare Studies, received the Peter Hansell Medal from the Institute of Medical Illustrators.

Financial Performance

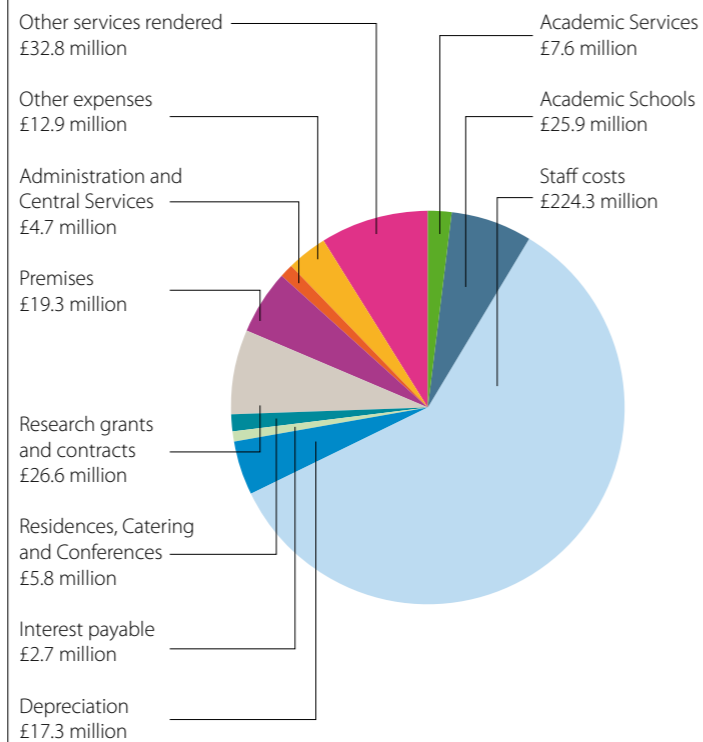
Research Grants and Contracts



Total income: £393.5 million



Total expenditure: £379.9 million



University Profile



Cardiff University is a dynamic and successful centre for higher education and has an international reputation for the quality of its research and teaching. It is a member of the Russell Group of the UK's leading research universities.

– demonstrate by this investment their confidence in the University's ability to undertake research of the highest standards which delivers a wide range of benefits to the individual, society and to the economy.

buildings and tree-lined avenues that form the city's elegant civic centre, and also shares the nearby Heath Park campus with the University Hospital of Wales.

The University's breadth of expertise encompasses: the humanities; the natural, physical, health, life and social sciences; engineering and technology; preparation for a wide range of professions; and a longstanding commitment to lifelong learning. Cardiff University has 29 academic schools, numerous research centres and an annual income of £393.5M.

Cardiff University also provides a stimulating and innovative environment for teaching and learning. Hundreds of degree schemes are offered and a wide range of continuing professional development programmes include those for doctors, dentists, pharmacists, lawyers, engineers and others.

Promoting health and welfare with special reference to the needs of Wales is an important role of the University and one which is fulfilled via a strongly inter-disciplinary and multi-partnership approach. Central among our partners in this all-Wales role is the National Health Service in Wales, with which the University is linked at all levels. The University's academic expertise and research facilities are also applied to good advantage by industry and commercial partners, government bodies and other organisations. The University also helps to generate new business ideas and spin-out companies all of which have a direct benefit to the economy.

Research is central to the work of the University and at any time there are more than 1,000 research contracts in operation. Among the academic staff are many who are recognised internationally as being among the leaders in their fields, including two Nobel Laureates. Research at Cardiff pushes back the frontiers of knowledge and understanding and is applied to produce real benefits, locally and worldwide. Organisations responsible for research investment – including the UK Research Councils, industry, charities, Government and the European Union

The quality of the student experience at Cardiff University is reflected in the strong demand for study places from applicants from throughout the UK and worldwide. The University has around 26,000 students, including more than 2,700 students from more than 100 countries outside the UK, helping to create a vibrant international community.

Cardiff University was founded by Royal Charter in 1883 and today combines impressive modern facilities with a dynamic approach to research and teaching. It benefits from an outstanding location amidst the parks, Portland-stone

Having gained national and international standing, Cardiff University's Vision is to be a world-leading university and to achieve the associated benefits for its students, staff and all other stakeholders.

For news and information on all aspects of work at Cardiff University, visit the University website at: www.cardiff.ac.uk

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 for those donated generously directly to its academic schools.

Organisations

3M Health Care Ltd	Breast Cancer Campaign	Culture Ireland	Greiner Bio-One Ltd
A McLay and Co Ltd	British Academy	Deafness Research UK	Grunenthal Limited
Abbey National Plc	British Council	Deaking University	Halcrow Group Ltd
Abbott Laboratories Limited	British Heart Foundation	Defence Evaluation and Research Agency	High Q Foundation Inc
Acta Spa	British Medical Association	Defence Science and Technology Laboratory	Historic Scotland
Agilent Technologies	British School at Athens	DeMasq Ltd	Home Office
Agusta Westland	British Skin Foundation	Department for Business Enterprise and Regulatory Reform	Howell's School, Llandaff
Algipharma AS	British Society for Antimicrobial Chemotherapy	Department for Environment, Food and Rural Affairs	Humanities in the European Research Area
Almirall	British Society for the Study of Vulval Disease	Department for Innovation, Universities & Skills	IBM UK Ltd
Alzheimer's Research Trust	British Society of Paediatric Dentistry	Department of Communities and Local Government	IDEAS
Alzheimer's Society	Brymill	Department of Health	Inhibitex Ltd
Amgen Inc	CADW Welsh Historical Monuments	Department of Health & Human Services	International Glaucoma Association
Anaesthetic Research Society	Cancer Research UK	Department of Transport	International Tansport Federation
Arthritis Research Campaign	Cancer Research Wales	DePuy UK	Seafarers Trust
Arts and Humanities Research Council	Cardiff & Vale NHS Trust	Dermal Laboratories Ltd	Invista
Arts Council of Wales	Cardiff & Vale Trust Charity Board	Devamark Ltd	JISC TechDis
ArtStation	Cardiff County Council	Diabetes UK	John Ryder Memorial Trust
ARUP	Cardiff Foundation of Environmental Research	Dinas Powis Golf Club	Johnson Matthey Plc
Ashbourne Pharmaceuticals Ltd	Cardiff Partnership Fund Ltd	Dow Corning	Joint Information Systems Committee
Association of Commonwealth Universities	Cardinal Health UK 232 Ltd	Emma Jane Demery Bequest Fund	KCI Europe Holding BV
Astellas Pharma Ltd	Carleton Limited	Energist	Kenyon Gilson EPS Research Fund
AstraZeneca UK Ltd	Carmarthen Local Health Board	Engineering and Physical Sciences Research Council	Kidneeds
Astron Clinica	Castle Court Funeral Home	English Heritage	Lancashire Constabulary
AtCor Medical	Celsa Steel UK	Environment Agency	Legal and General Assurance Society
Aventis Pharma Ltd	Celtic Technologies Ltd	Environment Agency	Legal Services Commission
Aventis Pharmaceuticals Ltd	Centre for Ecology & Hydrology	Epilepsy Research UK	Leica Microsystems (UK) Ltd
B Braun Medical Ltd	Centre for Medicines Research	ESRC National Centre for Research Methods	Leo Pharmaceuticals
Baily Thomas Charitable Fund	International Ltd	ESRC National Centre for Research Methods	Leukaemia Research Fund
Basilea Pharmaceuticals Ltd	Charles Wolfson Charitable Trust	ESRC National Centre for Research Methods	Liberty International plc
BASPCAN	Cheshire Constabulary	ESRC National Centre for Research Methods	LifeScan UK & Ireland
Bavarian Broadcasting Corporation	Child Cancer Foundation	ESRC National Centre for Research Methods	Llandough Diabetes Centre Fund
Baxter	CLANET	ESRC National Centre for Research Methods	Lloyd's Register of Shipping
Baxter Renal Division	Coal Authority	ESRC National Centre for Research Methods	London School of Hygiene & Tropical Medicine
BBC Wales	Cogent Power Ltd	ESRC National Centre for Research Methods	LUSAS
BBI marketing Inc	Commission of European Communities	ESRC National Centre for Research Methods	M&A Pharmachem Ltd
Beacons for Wales	Community Housing Cymru	ESRC National Centre for Research Methods	Manchester City Council
Becton Dickinson Ltd	ConvaTec Limited	ESRC National Centre for Research Methods	Manchester Metropolitan University
Beiersdorf UK Ltd	Co-Operative Bank	ESRC National Centre for Research Methods	Marinomed Biotechnologie GmbH
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