



Review 2011



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## UCL – London’s Global University

### Our vision

- An outstanding institution, recognised as one of the world's most advanced universities and valued highly by its community of staff, students, alumni, donors and partners and by the wider community
- Providing an outstanding education to students from across the globe that imparts the knowledge, wisdom and skills needed by them to thrive as global citizens
- Committed to leadership in the advancement, dissemination and application of knowledge within and across disciplines
- Committed to achieving maximum positive social, environmental and economic benefit through its achievements in education, scholarship, research, discovery and collaboration
- Developing future generations of leaders in scholarship, research, the learned professions, the public sector, business and innovation
- Tackling global challenges with confidence
- As London's global university, leading through collaboration across London and worldwide in the advancement of knowledge, research, opportunity and sustainable economic prosperity
- Operating ethically and at the highest standards of efficiency, and investing sufficiently today to sustain the vision for future generations

### Our values

- Commitment to excellence and advancement on merit
- Fairness and equality
- Diversity
- Collegiality and community-building
- Inclusiveness
- Openness
- Ethically acceptable standards of conduct
- Fostering innovation and creativity
- Developing leadership
- Environmental sustainability

I am pleased to introduce this summary of UCL's activities and achievements in 2011. It was not a dull year. Funding has been particularly challenging. Yet our teaching and research have continued to develop and thrive, with long-term impact that reaches well beyond our walls.

There have been breakthroughs from research that promise to make profound differences to the human condition, across such diverse areas as organ transplantation, motor neurone disease, alternative energies and the psychology of financial markets. We have developed a new research strategy that sets out how we plan to build on these foundations, and develop new initiatives and modes of approach, in the coming years (see page 2).

A great deal of effort was devoted to promoting excellence in teaching in 2011. A series of initiatives focused on the deployment of new technologies, enhancing contact with tutors, creating new social and study spaces and promoting curriculum diversity (see page 11). Our new flagship undergraduate degree, the Bachelor of Arts and Sciences, is ready to launch in 2012 as a unique interdisciplinary programme. Internationally, we accepted our first undergraduate students in Kazakhstan, opened applications for our programmes in Qatar and held our inaugural international degree ceremony at our Australian campus.

In an age of financial austerity the value of collaborative working with others becomes ever more apparent. Our collaboration with Yale University was showcased at a parliamentary event (see page 10). UCL Partners, our academic health science partnership with four NHS Trusts, is now the strongest in Europe, and welcomed two new major partners during the year – Barts and the London NHS Trust, and Queen Mary, University of London. We welcomed Imperial College London and King's College London as new partners in The Francis Crick Institute (see page 7). Our social and commercial enterprise collaborations received national recognition, and we developed a strategy to support the entrepreneurial talents of staff and students across the university (see page 14).



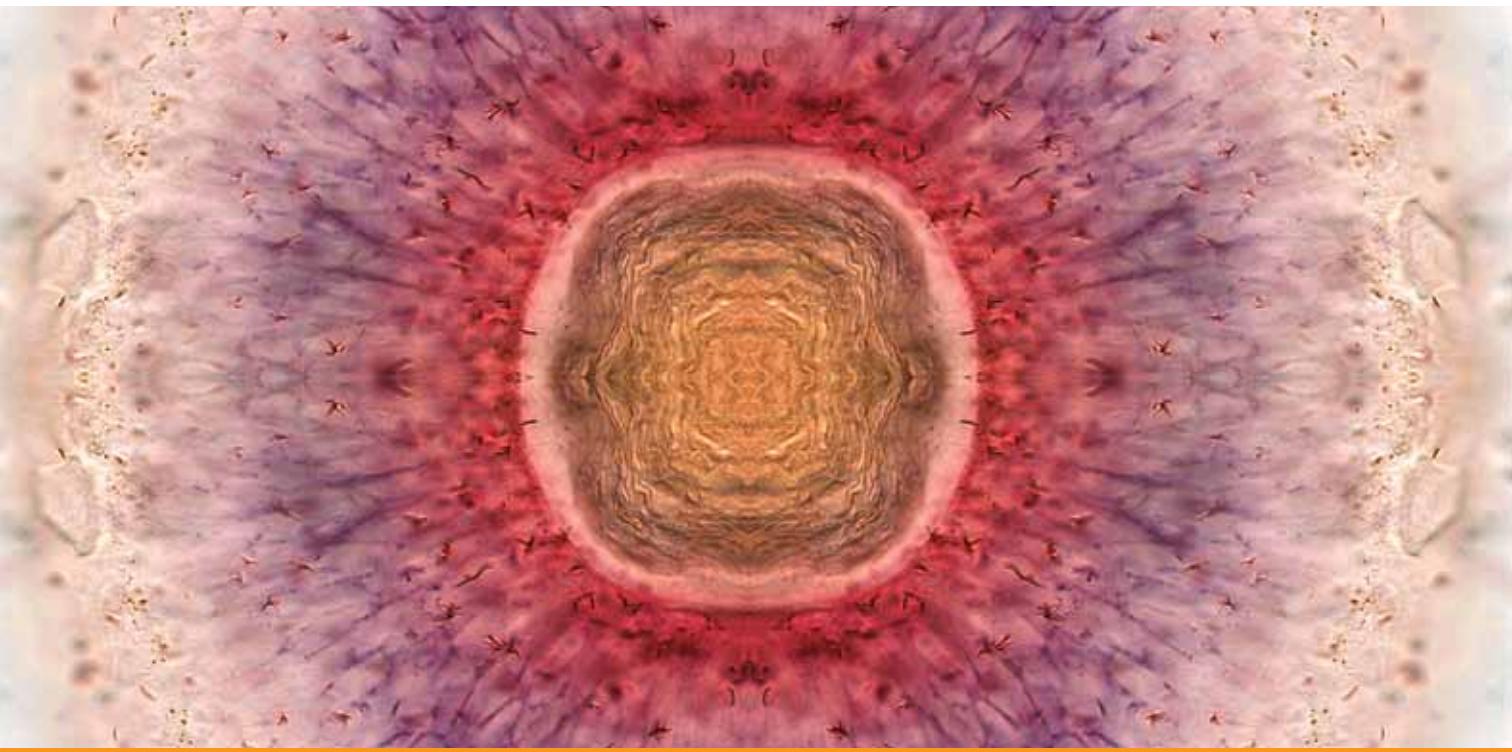
In the belief that research should not be locked away but should be disseminated as widely as possible, we have launched UCL Discovery. This provides free, open, online access to our research publications. We have also drawn on a wide range of public interactions to help inform our research and teaching (see page 22).

The *UCL Council White Paper 2011–2021* adopts a bold vision for the next 10 years (see centre spread). It confronts the many challenges that UCL faces. One is the pressure on our estate. We will invest over £500 million in the next 10 years in a comprehensive programme of rationalisation, new development, refurbishment and enhancing the public realm. But to absorb the additional growth that comes from success in teaching and research, and to provide new student and staff accommodation, we are exploring opportunities to establish an additional campus. In particular, we are investigating the prospects for regeneration as part of the Olympics legacy in East London.

In a brief report like this we can do no more than showcase a fraction of the world-class activity that takes place at UCL throughout the year. There are now several ways in which you can stay abreast – and tell us what you think – of UCL developments all year round (see opposite). We look forward to hearing from you.

A handwritten signature in black ink, appearing to read "Malcolm Grant".

Professor Malcolm Grant  
UCL President & Provost



The research summarised in these pages represents a very small sample of the outstanding investigative activity that is a hallmark of UCL. The breadth of research talent across the institution is vast. We therefore published a strategy this year that defines our research ambitions for the years ahead.

The 2011 UCL Research Strategy highlights the need to nurture and celebrate individual curiosity-driven research, but also sets out for UCL an innovative cross-disciplinary agenda, designed to deliver immediate, medium- and long-term benefits to humanity.

The strategy has three aims. Firstly, we will continue to foster leadership grounded in excellence in research specific to a single discipline. This could take the form of sustained leadership in one's discipline and the development of novel lines of enquiry; contribution to the intellectual life of one's discipline; cultivation of collegiality in one's department or more widely; support of early career researchers and students; or openness to the benefits of cross-disciplinary collaboration.

Zebrafish retina, Wellcome Image Awards winner  
© Kara Cerveny, UCL Steve Wilson Laboratory

Secondly, we aim to extend the distinctive way in which we bring together leaders from across and beyond UCL to conduct cross-disciplinary research. It is vital to transcend subject boundaries if we are to devise sophisticated solutions to complex problems presented by an increasingly interconnected world.

The third aim is to expand the impact of our global university's research – locally, regionally, nationally and internationally. By impact we mean the application of our expertise, knowledge, analysis, discovery or insight delivered through scholarly publication, education, public engagement, translational research, commercial and social enterprise activity, or – crucially – through influence on public policy and professional practice.

We trust that the significance of these aspirations will inspire our staff, partners and stakeholders to help us achieve them.



**Professor David Price**  
UCL Vice-Provost (Research)

## Focus on: Imaging Technology

UCL continued to invest in medical and biomedical imaging technology in 2011, both independently and in partnership with other institutions. Imaging technology allows academics and medical professionals to stay at the forefront of scientific research, and UCL is recognised as a world leader in this important field.

### Biomedical imaging centre opens

The UCL Centre for Advanced Biomedical Imaging (CABI), a new multidisciplinary research centre for experimental biomedical imaging, was officially opened in April. Its collaborative approach brings together technology and expertise from across UCL, aiming to develop and apply different imaging technologies to a broad range of research in order to enhance human wellbeing. CABI's technology is being used in areas including monitoring the instantaneous effects of cancer treatment and investigating the effects of genes responsible for hole in the heart in babies.

### Mapping the brain

UCL scientists moved a step closer to a computer model of the brain after developing a technique to map both the connections and functions of nerve cells in the brain using high-resolution imaging. Dr Thomas Mrsic-Flogel, a Wellcome Trust Research Career Development Fellow at UCL, has been leading a team of researchers exploring an emerging area of neuroscience research known as 'connectomics', which aims to map the brain's synaptic connections, of which there are an estimated 150 trillion. Understanding these connections will help scientists understand what happens when they fail, for example in Alzheimer's disease, schizophrenia and stroke.

### CT study of early humans reveals evolutionary relationships

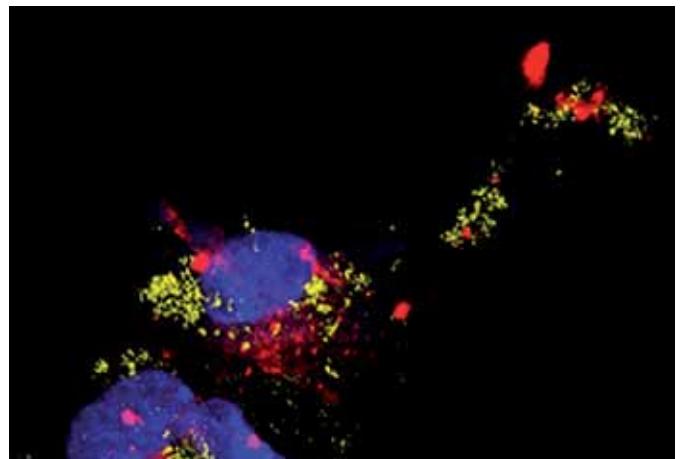
Dr Brian Villmoare (UCL Anthropology) was one of two researchers who used CT scans of fossil skull fragments that may help researchers settle a long-standing debate about the evolution of Africa's *Australopithecus*, a key ancestor of modern humans that died out 1.4 million years ago. The research revealed information about different facial features shared by a number of *Australopithecus* species that provides clues about their evolutionary relationships.

### Targeted policing has knock-on benefits

Researchers at UCL Security & Crime Science published findings supporting the benefits of targeted policing. The team undertook a systematic review of 44 international studies, addressing the common assumption that targeted policing to reduce crime in one area might simply displace the problem to adjacent areas. The study found no evidence for this assumption and in fact found that focusing on areas with high crime rates can have a dispersed benefit to surrounding areas.

### Arctic sea-ice map is redrawn

Scientists at UCL's Centre for Polar Observation and Modelling produced the most extensive map yet of Arctic sea-ice thickness using just two months' worth of data from the European Space Agency's ice mission, CryoSat-2. Data from the agency's satellite has also helped the UCL team create an updated map of ocean circulation in the Arctic, and a topographical relief map of Antarctica. Professor Duncan Wingham of the UCL centre first conceived the idea for CryoSat-2 more than 10 years ago.



Imaging stem cells using nanoparticles

UCL CABI

### UCL undertakes joint venture in medical imaging

UCL became an equal shareholder with the Medical Research Council, Imperial College London and King's College London in a new venture that assumes responsibility for the facilities and operations at pharmaceutical company GlaxoSmithKline's Clinical Imaging Centre.

### UCL imaging centre is lauded in major report

The Wellcome Trust Centre for Neuroimaging at UCL was cited as a world leader in a major report on human functional brain imaging. The Wellcome Trust report used the 20th anniversary of the first human study employing functional magnetic resonance imaging as an opportunity to assess key developments and the role it has played as a funder.

## Investigating the psychology of financial markets

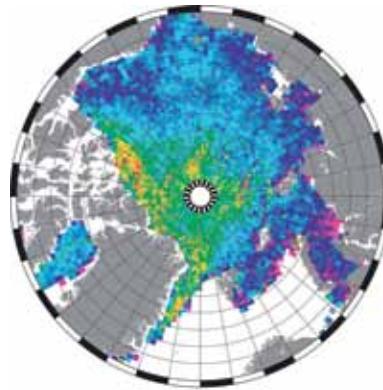
Professor David Tuckett (UCL Psychology & Language Sciences) received a grant from the Institute for New Economic Thinking to continue research into the decision-making context that guides traders' financial decisions, and its effect on instability in financial markets. Professor Tuckett found that traders' work is characterised by the way they deal with uncertainty and ambiguity, an area that is often sidelined in mainstream economic thinking. He showed that the uncertainty involved in financial trading led traders to rely on emotions and story-telling in their decision-making, which contributed to market volatility.

## Exposing the literary aspects of war

Professor Ardis Butterfield (UCL English) was awarded the R.H. Gapper Book Prize by the Society for French Studies for her book *The Familiar Enemy*, which provides a rare illumination of the literary aspect of the Hundred Years War. Professor Butterfield argues that a modern understanding of what 'English' meant at the time cannot be separated from 'French', given the countries' extensive cultural and linguistic ties. The annual Gapper Book Prize is awarded on the basis of a book's critical and scholarly distinction and its likely impact on wider critical debate.

## UCL voted best for postdoctoral researchers

UCL was voted the best international institution for postdoctoral researchers for the second consecutive year in a survey run by *The Scientist* magazine. The survey found UCL to be the best non-US institution for quality of training and mentoring, quality of communication, value of the postdoctoral experience and equity. Nearly 3,000 respondents to the survey assessed their work environment and experience by indicating their level of agreement with 38 criteria in nine different areas.



Map of the Arctic sea ice by CryoSat-2

© CPOM / UCL / ESA



Plotting the position of a Hangā Tee statue hat

## UCL space missions get the go-ahead

UCL scientists and engineers had extensive involvement in space missions through the European Space Agency (ESA) in 2011. UCL space scientists are involved in two out of four missions selected by ESA to compete for a launch opportunity at the start of the 2020s. The EChO mission, led by Dr Giovanna Tinetti (UCL Physics & Astronomy), will search for signs of life on planets that orbit nearby stars. UCL is well represented on the LOFT mission, which will study the environments that surround black holes, neutron stars and pulsars. UCL is also providing instruments for two further ESA-approved missions. Solar Orbiter is the most ambitious mission ever undertaken to study the Sun, while Euclid will use a UCL-developed camera to search for dark matter.

## Easter Island research receives new funding

A research team led by Professor Sue Hamilton (UCL Institute of Archaeology) received an award of more than £640,000 from the Arts and Humanities Research Council for a new phase of the project 'Rapa Nui (Easter Island) Landscapes of Construction'. The project aims to develop new interpretations of the organisation and meaning of the island's famous stone

statues. It will also unify the previously isolated research focuses of statue quarries, transport roads and ceremonial stone platforms into an integrated island-wide programme of landscape study, survey and excavation.

## Researchers develop new hydrogen storage technology

Researchers at the London Centre for Nanotechnology (LCN), a joint venture between UCL and Imperial College London, helped to develop a new technology that allows hydrogen to be stored in a cheap and practical way, making it promising for widespread use as a carbon-free alternative to petrol. LCN researchers Zeynep Kurban and Professor Neal Skipper and UCL graduate Dr Arthur Lovell were among researchers who helped to develop a new nano-structuring technique to produce tiny plastic micro-fibres. These can be used to store hydrogen-rich chemicals known as hydrides in a way that allows the hydrogen to be released at much faster rates and at lower temperatures than was previously possible.



In 2011, UCL's School of Life and Medical Sciences enjoyed significant change and growth. In August, the school adopted a new structure: three new faculties – Brain Sciences, Population Health Sciences and Medical Sciences – now sit alongside the existing Faculty of Life Sciences. This structure has improved the representation of core strengths and interests within the university and beyond. Reinforced by the appointment of Chairs to the school's Research Domains – nine core groupings of research activity across the school – it has also facilitated a greater commitment to supporting interdisciplinarity and cross-faculty working.

The school is delighted about the London School of Pharmacy's merger with UCL in January 2012. It builds on many existing collaborations with the Faculty of Life Sciences and beyond, and will capitalise on the complementary strengths of both institutions. Similarly, our academic health science centre, UCL Partners, has expanded significantly. In October, Queen Mary, University of London and Barts and The London NHS Trust both joined as 'founding' partners, while City University became an 'executive' partner. This reflects the growing confidence of a thriving partnership that helps translate research in basic and clinical sciences into population health gain for London and beyond.

Laparoscopy surgery, Wellcome Images Awards winner  
© David Bishop, UCL Medical School

The school continued to build links with other health education partners across London, notably with: the creation of Imanova, a PET scanning company formed in the autumn between UCL, Imperial College London, King's College London and the Medical Research Council; continued planning for the iconic Francis Crick Institute to be based in north Bloomsbury; and the creation of the Bloomsbury Institute for Pathogen Research, which sets out the framework for a joint research strategy and shared use of facilities between UCL and the London School of Hygiene and Tropical Medicine.

Meanwhile, the school continues to expand its global reach and impact, with a thriving collaboration between UCL and Yale in many biomedical fields. It is also working with partner hospitals in India to develop a shared platform in continuing professional development, reflecting the school's proactive approach to the growing, international demand for flexible, high-quality provision in this area.



**Professor Sir John Tooke**  
UCL Vice-Provost (Health)

## Focus on: Transplant Breakthroughs

UCL scientists played integral roles in a number of breakthroughs in human transplant technology in 2011. UCL has long held a prominent position in medical technology and development. University staff involvement in areas ranging from developing and implementing groundbreaking transplant techniques to post-transplant healthcare is a continuation of this strong tradition.



Larynx transplant patient Brenda Charett Jensen

**Study links obesity and indoor temperature**  
A review paper published by Dr Fiona Johnson (UCL Epidemiology & Public Health) and Marcella Ucci (UCL Bartlett School of Graduate Studies) suggested that increases in winter indoor temperatures in developed countries may be contributing to rises in population obesity. The reduced exposure to cold found in many developed societies may contribute to obesity by reducing the need for energy expenditure and undermining the body's capacity to produce heat.

**Regenerative medicine success for muscles**  
Dr Paulo de Coppi (UCL Institute of Child Health) was one of the authors of a paper outlining an innovative strategy for regenerating skeletal muscle tissue using cells from the recipient's own body. The strategy uses a degradable hydrogel to provide a framework that is supportive enough for cells to grow as a structure, but not so hard as to impede muscle growth. Use of a patient's own cells increases the speed of an operation, avoids potential rejection by the patient's body and is not ethically problematic.

### UCL surgeon assists groundbreaking operation

Professor Martin Birchall (UCL Ear Institute) was scientific advisor and UK member of the surgical team that performed a unique and complicated 18-hour transplant of a patient's voicebox, windpipe and thyroid gland. The successful operation also involved repairing nerves to enable the muscles in the larynx to move again, allowing the patient to speak for the first time in 11 years. The Royal College of Surgeons has since given approval for voicebox-transplant trials in the UK.

### UCL technology used in windpipe transplant

Professor Alexander Seifalian (UCL Division of Surgery & Interventional Science) and his team designed and built the synthetic 'scaffold' used in a windpipe transplant in Sweden. Professor Seifalian was responsible for developing 'nanocomposite' material that he and his team then used to build a synthetic windpipe moulded to a CT scan of the transplant patient. The patient's stem cells were then seeded into this scaffold so that the end product would effectively simulate natural tissue.

### Vaccine for transplant infection shows promise

A major infectious problem after organ transplantation, cytomegalovirus (CMV), could potentially be targeted with a vaccine, according to results from a phase II clinical trial led by scientists from UCL and doctors at the Royal Free Hospital. CMV is sometimes referred to as the 'Toll of Transplantation' because of the high level of serious disease it can cause, including pneumonia, lung complications and liver infection. A CMV vaccine had been thought unlikely to be effective, since the virus works by evading the immune system.

### New Institute of Health Equity aims to narrow health gap

UCL launched an Institute of Health Equity, directed by Professor Sir Michael Marmot (UCL Epidemiology & Public Health) and supported by the Department of Health and the British Medical Association, which will seek to increase health equity through action on the social determinants of health. The institute will build on previous world-renowned research and reviews led by Professor Marmot to collect the latest evidence on health equity, providing expert advice and sharing best practice both locally and internationally.

## New insight into treatment of drug-resistant HIV

Research conducted into the effects of drug-resistant strains of HIV could help the initial treatment of millions of people worldwide. Researchers at UCL and University College London Hospitals NHS Foundation Trust (UCLH) were among collaborators in a European study into drug-resistant strains of the virus. The study found a particular combination of antiretroviral drugs that could significantly reduce the failure rate of treatment for patients with such strains.

## Imperial and King's join

### The Francis Crick Institute

Imperial College London and King's College London joined UCL and other partners in the project to develop a world-leading medical research institute, The Francis Crick Institute (formerly known as UKCMI). The institute, scheduled to open in 2015, will bring together scientists from all disciplines with the goals of understanding the basic biology underlying human health and finding ways to prevent and drive forward better treatment of the most significant diseases affecting people today. Sir Paul Nurse, Director of The Francis Crick Institute, said that the involvement of Imperial and King's would offer the institute a greater scale and breadth of knowledge.

## New gene identified for familial motor neurone disease

An international team including scientists from UCL uncovered a new gene linked to motor neurone disease through study of a large group of patients in Finland and a Welsh family with a history of the disease. Motor neurone disease is progressive and fatal, with an average survival from onset of symptoms of between two and five years. The new discovery will lead to blood tests for families with a history of the condition, and potentially to new avenues for treating the disease.



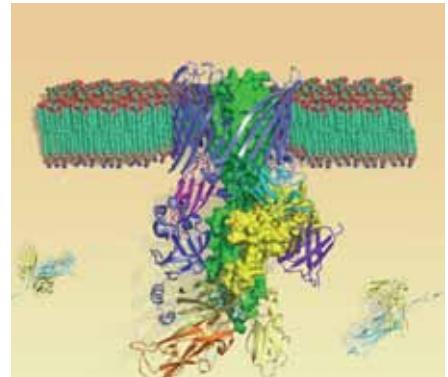
Burying a time capsule at The Francis Crick Institute

## UCL to host chronic disease alliance

The Global Alliance for Chronic Diseases announced that UCL will host the organisation's secretariat, working to curb chronic diseases such as stroke, diabetes, chronic lung disease and heart disease throughout the world. The alliance, which brings together six of the world's foremost health agencies, coordinates research activities that will address on a global scale the prevention and treatment of chronic diseases. UCL won an international competition to host the secretariat and was awarded \$640,000 in recognition of its stature in global health issues and the strength of its proposal.

## 'Trial of the year' award for UCL study

A UCL study aiming to reduce neonatal mortality rates and maternal depression in poor communities in eastern India was awarded 'Trial of the Year' by the Society for Clinical Trials. The society deemed that the trial in Jharkhand and Orissa was an "extraordinary randomised clinical trial, conducted with high quality in a very difficult setting, and achieving dramatic results of great public health importance". Trial results showed that after three years of the intervention, which involved using or organising village women's groups to promote local collaborative solutions, neonatal mortality was reduced by 45% and maternal depression by 57%.



Bacterial protein structure

## New antibiotics a step closer with discovery of bacterial protein structure

Scientists at the Institute of Structural and Molecular Biology, a joint endeavour between UCL and Birkbeck, uncovered the structure of the protein that assembles the tiny hair-like strands called *pili* that cover the outside of cystitis bacteria. *Pili* allow bacteria to group together and stick to human cells to cause infection, and are therefore a key target for a new generation of antibiotics. The institute, together with collaborators in the USA, has already discovered small molecules able to interfere with *pilus* biogenesis, offering hope of the development of far more effective antibiotics.

## Fifty years of the Windeyer

The UCL Division of Infection & Immunity held a celebration of the scientific achievements in the Windeyer building before its demolition in preparation for the construction of the new Sainsbury-Wellcome Centre for Neural Circuits and Behaviour. Built in 1959, the Windeyer was the hub of the Middlesex Hospital Medical School until its merger with UCL in 1987. In recent years it housed UCL's Division of Infection & Immunity and the UCL Hospital NHS Trust Laboratories for Microbiology, Virology and Immunology.



*SURFACE TENSION* exhibition, Nevada

The past year has seen some important developments in UCL's global activities. In September, we became the first British university to open a campus in Qatar, a unique partnership with Qatar Foundation and Qatar Museums Authority, offering postgraduate programmes in archaeology, conservation, cultural heritage and museum studies, and professional training for museum and archaeological professionals, as well as an ambitious research programme.

In December, UCL students specialising in Energy & Resources from six countries graduated at the Royal Institution in Adelaide, Australia – the first graduation ceremony in UCL's history to be held outside England. At Nazarbayev University in Kazakhstan, nearly 500 students graduated in June with a UCL Undergraduate Preparatory Certificate, and in September the university opened its School of Engineering with a UCL Professor on secondment as its first Dean. We shall also train engineers to take up academic positions in Nazarbayev University and develop collaborative research.

UCL signed a partnership agreement with the global resources company BHP Billiton that will see us establish an Institute for Sustainable Resources in London and an International Energy Policy Institute in Adelaide, and which will provide funding for scholarships, fellowships and two Chairs.

The Yale–UCL Collaborative, formed in 2009 to improve global health through scientific research and clinical and education collaboration, is being developed to embrace other disciplines in both universities. It will provide better understanding of the human condition and the environment, and new approaches to solving global problems.

On the teaching front, UCL signed student exchange agreements with universities on five continents. We have established partnerships with several leading research-intensive universities overseas, where innovations are being brought to the delivery of teaching, and exciting new spaces for learning are being created. We are also building distance-learning continuing professional development programmes in healthcare and biomedicine, for delivery initially in South Asia and then worldwide.



**Professor Michael Worton**  
UCL Vice-Provost (International)

## Focus on: Australia Campus

UCL Australia, based in Adelaide, was the focus of promising international investment in 2011. UCL's first campus outside the UK agreed funding deals that will continue to drive the academic and research excellence that it has established since opening in April 2010.

### First students graduate from Australia campus

Twelve students graduated from UCL's Adelaide campus in December 2011, the first graduation ceremony in the university's 185-year history to be held outside England. Five graduates hailed from Australia and two from Russia, with other students from Romania, South Africa, USA and Papua New Guinea. Professor Michael Worton, Vice-Provost (International), awarded nine UCL Masters degrees and three Graduate Certificates to the first cohort of students in the presence of the British High Commissioner, Paul Madden; former Premier of South Australia, Mike Rann; and leaders from South Australian government and industry.

### UCL and BHP Billiton launch natural resources initiative

UCL and BHP Billiton announced an agreement to establish an Institute for Sustainable Resources in London and an International Energy Policy Institute in Adelaide. The institutes will drive research into the multiple issues faced by the resources sector and provide a framework within which global expertise can be shared. Under the terms of the agreement, BHP Billiton Sustainable Communities, a charity established by BHP Billiton, will provide UCL with \$10 million (US) over five years to establish the institutes. It will fund academic research, fellowships and scholarships, as well as the appointment of a new Chair in Sustainable Global Resources and a Chair in International Energy Policy.

### Energy scholarships fund Korean students

A £2 million agreement announced in May will fund 18 places over the next six years on the MSc in Energy & Resources delivered by UCL Australia. The programme is a unique multidisciplinary degree that includes a year undertaking a major research assignment hosted by Australian industry. The places will be divided equally between employees of the Korean Ministry of Knowledge Economy and employees of Korean energy firm KOGAS, which is funding six of the places.



UCL Australia campus, Adelaide

### UCL student is International Student of the Year 2011

UCL student James Xu (UCL Italian & Management Studies) was named International Student of the Year. James, who is from China, was one of more than 1,200 students from 118 countries to enter the ninth annual International Student Awards, a major initiative from the British Council that promotes awareness of international students and their contributions to life in the UK. James was declared the winner after detailing his committed work as UCL Union's Volunteering Officer and President of UCL Volunteering Society.

### UCL academic teaches Chicago-based students online

Dr Mat Disney (UCL Geography) was invited to discuss his work with high-school students in Chicago as part of the Upward Bound programme, a government-funded initiative that provides students from communities that are under-represented at college level with an introduction to real-world applications of science, technology, engineering and maths. Dr Disney discussed his work on the remote sensing of vegetation, the carbon cycle and climate using real-time video, interactive whiteboards and instant messaging to connect with his new students.

## UCL climbs world rankings

The 2011 Academic Ranking of World Universities, published by Shanghai Jiao Tong University, China, saw UCL climb one place to 20th position. UCL was one of only three European universities in the top 20. UCL President & Provost Professor Malcolm Grant said: "At UCL we do not make inflated claims on the basis of university rankings. All of them are methodologically flawed and none can fully reflect all of an institution's qualities. This table has been unusual in maintaining a consistent and transparent approach year after year, and in focusing on measures of research excellence."

## UCL Qatar applications open

Applications opened in December 2011 for the first intake of UCL Qatar's postgraduate programmes in archaeology, conservation and museum studies, to start in August 2012. UCL Qatar is a unique partnership between UCL, Qatar Foundation and Qatar Museums Authority based in Doha. The opening of applications makes UCL the first British university to open a campus in the country, and promises to establish Qatar as an international centre of excellence in research in archaeology, conservation, cultural heritage and museology.

## Bartlett architects provide centrepiece for Nevada exhibition

The Nevada Museum of Art in Reno, USA, featured a major art installation created by two senior lecturers from the UCL Bartlett School of Architecture. Mark Smout and Laura Allen presented the installation *SURFACE TENSION*, an eight-metre-high network of more than 2,000 parts that commented on the role of the built environment during times of environmental change. The work was the centrepiece for the museum's exhibition *Landscape Futures: Instruments, Devices, and Architectural Inventions*.



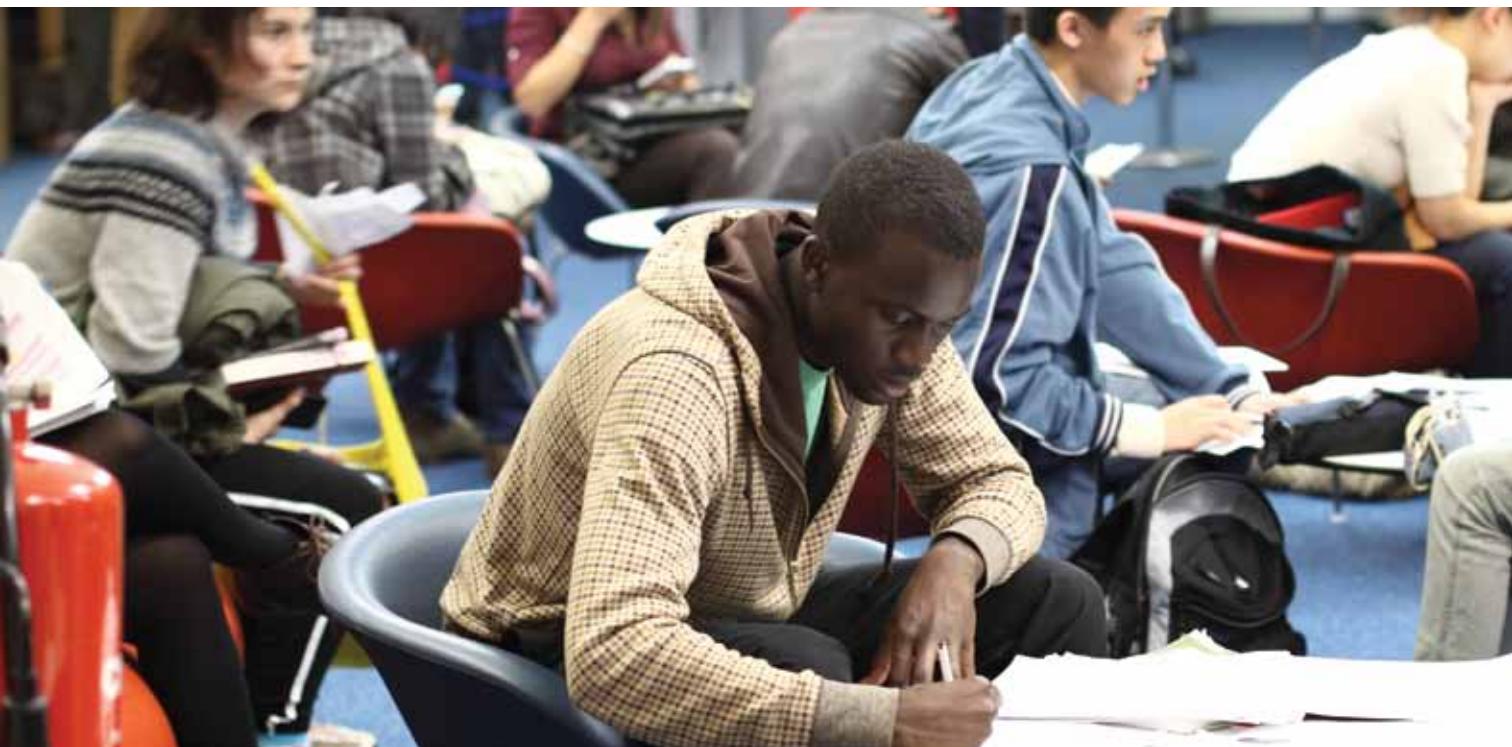
Participants in the Yale–UCL Collaborative at the House of Commons

## First engineering students enrolled at UCL partner in Kazakhstan

The Nazarbayev University School of Engineering in Astana, Kazakhstan accepted its first undergraduate students in September 2011. UCL is the international partner for the school, which specialises in chemical engineering, civil engineering and mechanical engineering, and aims to become the leading facility in Central Asia for advanced and professional education in these fields. The partnership was forged with the signing in February 2010 of an agreement for UCL to deliver the University Preparatory Certificate foundation year in Astana.

## UK Parliament celebrates Yale–UCL Collaborative

The Yale–UCL Collaborative was showcased as a leading example of transatlantic research collaboration in June at a House of Commons event hosted by George Freeman MP and UCL President & Provost Professor Malcolm Grant. Senior leaders and scientists from Yale and UCL joined government ministers, MPs and peers to commend the alliance, which aims to improve global health by educating citizens to make positive contributions to society; interpreting complex societal issues; and solving important problems through collaborative research and implementation of research discoveries.



The UCL Science Library

© Elaine Perks

As a new member of the UCL community, I was struck by the achievements of teaching staff during 2011 – and equally by the drive of students to make the most of all that a UCL education can offer.

The winners of the Provost's Teaching Awards embody the dedication, found at all levels across the university, to firing fertile minds with the passion and techniques to absorb, question and unlock knowledge – invaluable attributes to any future career. Cutting-edge technology represents one way to capture the imagination and facilitate learning, and in 2011 UCL encouraged its adoption by providing staff with e-learning development grants.

UCL students exhibited a determination not only to stretch themselves intellectually – borne out by an impressive record in academic awards – but also personally and professionally to the benefit of society. Many won placements at leading companies; others applied their intelligence to real-world issues, often pooling their ideas with students internationally. Thousands gave their time and expertise to local organisations, in particular visiting schools to inspire the next generation of bright minds to aim for a university education.

Attracting the best students regardless of background is part of the UCL ethos. In 2011 we appointed the Principal of the UCL Academy, a new secondary school we are sponsoring in Camden that will welcome its first students in 2012, and the Office for Fair Access approved our Access Agreement, which sets out how we will further encourage talented students from disadvantaged backgrounds to attend the university.

In turn, UCL has a duty to ensure that our students have at their disposal the support and facilities they deserve in order to thrive during their university career – whether new levels of feedback from teachers, study and social spaces, careers education or new programmes, such as the groundbreaking interdisciplinary Bachelors in Arts and Sciences launching in 2012. These and more plans for transforming education at UCL over the next 10 years are described in the UCL White Paper, approved by Council in July 2011. I look forward to working with the whole UCL community to make these plans a reality in the years to come.



**Professor Anthony Smith**  
UCL Vice-Provost (Education)



UCL scholarships reception

## UCL launches innovative new Arts and Sciences undergraduate degree

UCL revealed plans for an innovative interdisciplinary undergraduate degree, the Bachelor in Arts and Sciences (BASc), to be offered from September 2012. The decision to launch the BASc reflects a growing demand from both students and employers for interdisciplinary degree programmes. All BASc students will study core interdisciplinary courses and a foreign language. They will also explore one of four non-core 'pathways' mentored by a member of the UCL academic community. Pathways offer a choice of modules from across the entire range of UCL's existing undergraduate degree programmes as well as new ones designed by leading academics specifically for the BASc. Students will study a mix of arts and sciences throughout the degree programme and will undertake a work placement. They will also have the opportunity to study abroad for a year.

## UCL students win Undergraduate of the Year awards

UCL students won two of the 12 categories in the TARGETjobs Undergraduate of the Year awards in April. Omar Nabeel (UCL Civil Engineering) won the Low Carbon section for his ideas on encouraging low-carbon behaviour during the 2012 Olympic Games. His prize was a six-week summer internship with EDF Energy and a place at the company's international leadership conference in Florida. Asif Chowdhury (UCL Economics) was joint winner in the First Year of the Year category, which recognised a combination of academic performance, extracurricular activities and career motivation, and secured a placement with Ernst & Young. More than 1,500 students from 140 universities entered the 2011 competition.

## LawWithoutWalls: international virtual teaching

UCL students participated in the inaugural year of international teaching project LawWithoutWalls. The project launch was hosted by UCL Laws and included panel discussions on international legal education and the legal aspects of entrepreneurship. The aim of the three-month project was to embrace the potential for innovating and rethinking legal education and practice, and students met for a virtual teaching session every week. Each student was set the challenge of devising an innovative solution to a current legal issue, culminating in the presentation of solutions at a 'ConPosium' hosted by the University of Miami. An expanded project will run in 2012, involving the law schools at Harvard and Stanford universities, as well as institutions in Europe, North and South America, Asia and Australasia.

## Focus on: Provost's Teaching Awards

Now in their fifth year, the Provost's Teaching Awards were established to celebrate the best of teaching at UCL and to reward staff who make outstanding contributions to the learning experience and success of students. They demonstrate UCL's commitment to improving teaching, learning and assessment; attracting and retaining world-class staff; and highlighting and rewarding achievements that support teaching and learning.

This year, ten awards were presented to outstanding members of the UCL community across several faculties in recognition of their contribution to excellence and innovation in teaching. The awards spanned four categories: Beginning of Career, Experienced Staff, Supporting Student Learning and Postgraduate Teaching Assistant (see page 33).



Lotus exhibition in the UCL Quad

## First Lotus Engineering scholarship awarded

Nicholas Mak, a Singaporean UCL MSc Mechanical Engineering student, received the first UCL Colin Chapman Lotus Engineering Masters Scholarship. The scholarship, inspired by UCL alumnus and founder of Lotus, Colin Chapman, lasts for one year. It is awarded for engineering excellence and offers the recipient £10,000 and an internship at Lotus Engineering.

## Support for e-learning development

UCL allocated £40,000 to e-learning development grants to help staff further integrate the benefits offered by digital delivery into their teaching. Personal support was provided by the UCL Learning Technology Support Service to develop innovative ideas, and the grants also funded the employment of students to assist with the creation of e-learning materials.

## UCL's Access Agreement approved by Office for Fair Access

UCL's new Access Agreement, setting out plans to further encourage students from disadvantaged backgrounds to attend the university, was approved by the Office for Fair Access. From the academic year 2012–13, UCL will spend some 30% of additional student fee income on access measures, equating to around £8.2 million a year. Around £7 million will be spent on financial support for students, with the remainder dedicated to outreach activities. The university will seek to increase applications from prospective students from lower socio-economic groups by 25% over 2012–17. It will also aim to increase applications from students from low-participation neighbourhoods by equivalent numbers over the same period.

## Learning and teaching at UCL 2010–15

Following consultation with the UCL community, UCL Council published a White Paper articulating a vision for the institution for the coming ten years. The paper builds on UCL's *Institutional Learning and Teaching Strategy 2010–15* in committing to the enhancement of teaching at UCL. Proposals include an all-programme review over the next two years, a review of the undergraduate curriculum, and new learning activities for students in all disciplines, exploring areas such as cultural difference, leadership and entrepreneurship.

## Undergraduate tuition fees are set

UCL Council endorsed the recommendation of the university's Finance Committee to set the tuition fee payable from earned income after graduation by home and EU students for 2012 entry at £9,000 for all of its undergraduate programmes. This decision was designed to ensure undergraduates continue to benefit from the outstanding teaching and facilities they deserve, in light of the fact that from 2012, UCL will receive no government teaching funding for any undergraduate programmes in Arts and Humanities, Social and Historical Sciences (except Archaeology), Laws, Bartlett Faculty of the Built Environment, Slavonic and East European Studies, Mathematics, Statistics, Psychology and Computer Science.

## UCL Transition Programme shortlisted for award

The UCL Transition Programme, an innovative project that supports new UCL students in adapting to university life, was shortlisted for a London Education Partnership Award. Departments with a full Transition Programme run a mentoring scheme with experienced students in the same teaching area and workshops on academic skills. As part of the project, UCL students also visit local schools as 'transition mentors' to run projects for young people.



It has been another excellent year for enterprise at UCL. Our ambitious UCL Enterprise strategy for 2011–15 was launched and work has already begun on implementation.

One of the cornerstones of the strategy is to greatly expand partnerships with external organisations. A great example is EDF, which won Corporate Partner of the year at UCL's Awards for Enterprise 2011, and has been working with the UCL Energy Institute on distributed energy in the built environment, and on the thermal efficiency of homes.

We were also delighted to announce a major new partnership with BHP Billiton to establish a two-hemisphere natural resources initiative, which will provide exciting new ways for research leaders to collaborate and long-term research ventures.

2011 saw a new partnership with Imperial College London and Cisco to create a Future Cities Centre in East London as part of Tech City. This centre will create a new model for collaborative working between academia, large corporations, and small and medium enterprises.

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#### Tech City, Shoreditch

Our centre for entrepreneurship, UCL Advances, continues to support UCL's community, with more students than ever enrolling for training events. Highlights include Citrus Saturday, where Camden schoolchildren are taught business skills on lemonade stalls, and StartUp Summer, a development programme for student entrepreneurs.

UCL Business, our technology transfer company, has had enormous financial success this year and has further expanded the scope of its activities. One recent success was the development of a grammar app by Professor Bas Aarts (UCL English). This highlights UCL Business's commitment to maximising the impact of research across all disciplines through commercialisation and social enterprise.

In the past, university enterprise has been narrowly focused on the commercialisation of university activities. However, enterprise is much more than this: it is about making a difference, to students, to staff and to society. I look forward to continued success in all of these areas in 2012 and beyond.



**Professor Stephen Caddick**  
UCL Vice-Provost (Enterprise)

## UCL, Imperial and Cisco to open Future Cities Centre

UCL, Imperial College London and Cisco have entered into a three-year agreement to create a Future Cities Centre in London – part of the Tech City cluster announced by Prime Minister David Cameron in November. The centre will be part of Tech City, Shoreditch – the fastest growing technology cluster in Europe – and will be a place where businesses, academics and start-ups can collaborate. The Future Cities Centre will focus on the thematic areas of Future Cities and Mobility, Smart Energy Systems, the Internet of Things and Business Model Innovation. It will form a major node of Cisco's National Virtual Incubator, which is a sustainable public technology network that promises to stimulate entrepreneurship by connecting physical sites through IT infrastructure.

## Enterprise Society team wins national competition

A team from the UCL Enterprise Society won a national competition held at Imperial Business School called the enFinite Potential Unleashed Enterprise Challenge. The team consisted of five UCL students: Marisha Naz, Monica Jarpa, Amir Bendjazia, Laci Bicskei and Tristan Pritchard-Meaker. All of the team members come from different countries and are studying within different UCL departments. For their winning presentation, they chose to analyse the financial micropayments industry and highlight entrepreneurial opportunities within that area.

Team member Monica Jarpa (UCL Management Science & Innovation) explained: "Despite not having met [prior] to the selection process, we created a very collaborative team dynamic and really enjoyed working together. We formed a very interdisciplinary team."

## Heritage Without Borders

Heritage Without Borders (HWB), a spinout organisation from UCL funded by an HE Social Entrepreneurship Catalyst Award from UnLtd, was launched in May. HWB is a unique social enterprise that builds heritage skills in developing countries, helping to preserve important cultural objects that could otherwise be damaged or lost forever. It supports heritage projects in situations of poverty and in the aftermath of conflict and disaster, closing the gap in heritage skills between the developed and developing world by matching teams of UK-based professional volunteers with international projects that require specific expertise and training in areas as diverse as artefact conservation, security, exhibition and public outreach. The host communities tap into valuable skills that would otherwise be too difficult – or too expensive – to obtain, while volunteers gain new skills. HWB is co-directed by Sally MacDonald, Director of UCL Museums, Collections & Public Engagement, with Melina Smirniou and Dominica D'Arcangelo, both UCL alumnae.



Heritage Without Borders

## National recognition for social enterprise activity

UCL was honoured in UnLtd's 2011 HE Social Entrepreneurship Champions of Change Recognition Awards for its "exceptional and inspirational commitment to developing entrepreneurial solutions to social problems". UnLtd is a charity which funds and supports social entrepreneurs. The awards – co-sponsored by the Higher Education Funding Council for England – highlight the importance of social innovation in higher education and encourage active involvement in social entrepreneurship, as well as champion those who are already involved. UnLtd was "particularly impressed" with the manner in which social enterprise has been effectively integrated into curriculum development.

## Success tastes sweet for Citrus Saturday kids

UCL student volunteers helped Camden schoolchildren to produce and sell their own lemonade in July. The two-week project saw the pupils gain valuable business skills before they set up their stalls at key locations in London on the big day – Citrus Saturday. Sales totalled £1,200 and 1,500 bottles and cups of lemonade were sold from eight stalls. During the process children learned how to set goals, create budgets, secure investors, select a site, purchase supplies, serve customers, make a profit and repay investors.

## Awards for Enterprise 2011

More than 400 staff, students and business professionals gathered at UCL's Bloomsbury Theatre in May to celebrate the 4th Annual UCL Awards for Enterprise. Fittingly for London's oldest university and one of its leading academic institutions, as well as one of its biggest employers, the theme of the awards was UCL's enterprise impact on the city. Many different areas of study, from medicine to the arts and humanities, were represented among the winners, who showcased the diversity of their ideas in a series of video presentations, from the light-hearted – a mobile app guiding partygoers to local events (eeve) – to the serious – technology that will allow medicines to come to market faster (MicroTailor). Many of the night's winners have already won or reached the final stages of prestigious national competitions or have started generating their first sales. For the first time, there were two awards in the category of Best Corporate Partner: the Small and Medium Enterprise Partner was ARIUS3D, with which UCL has shared use of a state-of-the-art 3D colour laser scanner based at the university. The Corporate Partner is EDF Energy, which is working on a £4 million project with the UCL Energy Institute on distributed energy in the built environment, and on the thermal efficiency of homes.



The iGE app

## UCL and Goldman Sachs helping 10,000 small businesses

The UCL 10,000 small businesses programme was established to help small but established businesses and social enterprises move to the next level of expansion by providing them with the necessary training and one-on-one support from experts in entrepreneurship. Businesses with scalable operations are provided with the tools and resources to develop long-term sustainable growth and job creation in the communities. Funded by the Goldman Sachs Foundation and developed and delivered by a network of industry experts, the core programme will run between February and May 2012, with ongoing mentoring support. Through 12 workshop modules, customised planning and comprehensive one-on-one advice, each small business or social enterprise will receive high quality, practical support and education from a network of industry experts at no cost to the business.

## Teaching grammar to the iPhone generation

UCL Business brought to market an innovative iPhone application that provides a complete interactive course in English grammar. The iGE (Interactive Grammar of English) was developed by academics from UCL's Survey of English Usage (SEU) project and enables English language students to develop knowledge and skills at their own pace, using mobile technology to study more effectively and with greater flexibility. The app is targeted at students studying the English language at secondary school, college or university, as well as those who are studying English as a second or foreign language. The SEU team developed the app in response to students and teachers who felt that many existing learning tools, whether they are paper-based or interactive, often fail to meet their English language learning needs. Teachers and students are given advice about grammar that is often dated, confusing and, in some cases, highly misleading. iGE offers students the opportunity to practise their language skills and study English whenever they want and wherever they are. Further apps for punctuation and spelling are planned for the near future.



## Highlights 2011



### Walking on Mars

Over summer 2011, UCL Communications held a photography competition, open to all students, calling for images that demonstrated how UCL students contribute to society as global citizens. The term 'education for global citizenship' encapsulates all that UCL does to enable students to respond to the intellectual, social and personal challenges that they will encounter throughout their future careers and lives.

© Angeliki Kapoglou

The winning entry was by Angeliki Kapoglou (UCL Space & Climate Physics), who was selected to serve as a member of an international crew on the Mars Desert Research Station, which simulates the Mars environment in the Utah desert. Researchers at the station work to develop key knowledge needed to prepare for the human exploration of Mars.

The runners-up and other images of UCL life can be seen at:  
[www.flickr.com/ucnews](http://www.flickr.com/ucnews)

# UCL Council White Paper 2011–2021: a vision for the next 10 years

Following consultation with the UCL community, UCL Council published a White Paper in October 2011 articulating a vision for the institution for the coming 10 years. It sets out strategic aims and initiatives to help us achieve our aspiration to make UCL the most exciting university in the world at which to study and work.

Recent changes to the UK higher education landscape present us with a series of fundamental, unprecedented changes, with the removal of government support for most undergraduate teaching and research funding under more pressure than at any other time in the past decade. But these changes also provided UCL with a unique opportunity and obligation to develop new strategies to consolidate and flourish as the UK's leading outward-looking university, making a major contribution to society and enhancing the lives of our students.

Download the White Paper in full and watch UCL President & Provost Professor Malcolm Grant discuss its themes at [www.ucl.ac.uk/white-paper](http://www.ucl.ac.uk/white-paper).

## Key strategic aims

UCL is committed to the following aims, which provide the framework for the UCL Council White Paper 2011–2021:

1. Maintaining the qualities of a comprehensive university, committed to excellence in the arts, humanities, social sciences, physical, biological and medical sciences, engineering and the built environment.
2. Maintaining its openness as an institution, attracting wholly on merit the most talented students from the United Kingdom and from around the world.
3. Providing education of the highest academic quality, rigorous in its demands, distinctive in its character, imbued with UCL's world-leading research and delivered by academic staff at the forefront of their field.
4. Enhancing its position as one of the world's leading research institutions with a continued focus on single and multi-disciplinary research and a commitment to the application of new knowledge to addressing major societal challenges.
5. Becoming a global leader in enterprise and open innovation, supporting and promoting effective knowledge exchange, innovation, entrepreneurship and collaboration with commercial and social enterprises.
6. Attracting, rewarding and retaining outstanding staff from diverse backgrounds.
7. Securing long-term financial sustainability and sustaining the level of capital investment necessary to achieve its academic objectives.
8. Operating at the highest levels of efficiency, reducing overheads and eliminating waste.
9. Improving the quality, accessibility and sustainability of its estate and its use, upgrading its built environment and making optimal use of space.

## Key innovations and initiatives

### A COMPREHENSIVE UNIVERSITY

- Opportunities for academically strong undergraduates to acquire the equivalent of a GCSE Grade C or above in a modern foreign language once enrolled at UCL, given the expectation from 2012 that undergraduates have this qualification.
- The launch in 2012 of the liberal arts undergraduate BASc programme, a newly designed interdisciplinary degree incorporating both sciences and humanities.
- Proposals to consider admitting additional UK-EU students with grades of AAB or above at A level in programmes where there is strong demand from high-quality applicants, in the light of government reforms lifting quota controls on strong A level students and redistributing student places in new institutions.
- Extension of the impact award scheme, which supports collaborative PhD projects match-funded by organisations such as charities, companies, government institutions and social enterprises.

### AN OPEN INSTITUTION

- Participation in the government's National Scholarship Programme, benefiting students who are in their first year of study and who come from a household with an annual income of under £25,000.
- Separate support for students from households with an income of £25,000–42,600, and significant additional funds for the UCL Friends Programme Hardship Fund.
- Proposals to open up the facilities of the UCL-sponsored Academy in Camden – our biggest single commitment to raising aspiration and opportunity within our community, due to open in September 2012 – to pupils in the borough.
- A fundamental review of admissions processes, with an emphasis on efficiency, transparent criteria and a customer-oriented focus.

## TRANSFORMING EDUCATION

- New learning activities for students in all disciplines, to take place in the post-examination period in the first and second year of study, exploring areas such as cultural difference, leadership and entrepreneurship.
- A review of every programme over the next two years to ensure continuing fitness for purpose, taking into account the relationship between teaching, research and scholarship; new technologies; feedback; assessment and employability.
- A review of the undergraduate curriculum, including the simplification of entry points to accommodate radical changes occurring in secondary education around the world. We will also provide greater choice for students once they are at UCL, based on their first year study experience.
- Consideration of a possible adoption of a semester system, which is becoming the standard global model.
- Improvement in the range and quality of information provided to students and employers through the roll-out across UCL of the Higher Education Achievement Record, and through the pilot of a globally recognisable Grade Point Average approach to recording student achievement, alongside the existing honours system.
- Development of a Student Experience Strategy that will integrate approaches to learning and teaching with other aspects of student life such as work experience, careers education and volunteering, and will involve investment in student counselling.
- Enhancement of the student experience by improving technology, social and study spaces, feedback, tutoring, campus access, contact with subject leaders, curriculum diversity, opportunities for e-learning, and equipment. In tandem, more sophisticated ways of assessing the student experience will be developed to provide systematic information on these areas.
- Development of proposals to allow volunteering to become an element of all degree programmes.
- Significant investment in the Careers Service, to expand access to and involvement of alumni.
- Extension of the Provost's Teaching Awards scheme, which recognises transformative approaches to teaching. The postgraduate teaching assistant scheme will be expanded in terms of training, financial support and supervision.
- Refurbishment of accommodation in central London, with the additional aim of 1,000 new bed-spaces in readily accessible, safe and economical areas beyond the city centre.

## ENTERPRISE

- Creation of a unified organisational structure to support enterprise activity across the university in academic and other environments.
- Identification and support of enterprise activity in every academic department, alongside a network of enterprise champions.
- Universal student access to some form of entrepreneurship training as part of their study programme, or by participation in extracurricular activities.
- Stimulation of and support for 500 new commercial and social enterprises in the next five years, through a combination of mentors, business advice, space and investment – including a fund for student entrepreneurs.

## RESEARCH

- Development of a Research Frontiers programme of cross-disciplinary enquiry – running parallel with the Grand Challenges – into areas that have the potential to change fundamentally the way we understand subjects such as the origins of the universe, consciousness and language.
- Creation of opportunities for younger researchers to take leadership roles in new initiatives.
- Proposals to make bridging funding available to promising researchers who temporarily lose grant support due to funding agency administrative procedures. We will endeavour to increase the number of researchers holding personal fellowships or awards.
- Development of strategic and innovative awards and programmes at the interface between disciplines, such as four-year PhD and EngD programmes, and centres for doctoral training.
- Enrichment of the Graduate School's skills development programme for research students, with courses that enhance academic studies, life skills and future employability, and which complement the graduate training offered by departments and individual research supervisors.
- Collaboration with sponsors from public, charitable and private sectors, and with national and international agencies, to offer scholarships for graduate training.
- Establishment of further strategic collaborative partnerships – with other research organisations, commerce, industry and healthcare providers – to enable our research impact to be broadened and deepened, particularly internationally.
- Enhanced support for research grant applications, through structured programmes of advice and mentorship as well as administrative support for the application process.

## CREATING VALUE

- Strengthened support to enhance capabilities and leadership skills in areas including strategy formulation, portfolio management, project and process management, decision-making, cost control, performance development and reward, and environmental sustainability. Modernisation and streamlining of human resources management policy and processes.
- Examination of opportunities for greater value for money by revising the distribution of professional service functions, exploring the possibility of shared service centres (potentially with other organisations) and of outsourcing.
- A review of all business processes to deliver greater efficiency and responsiveness, in particular through better deployment of information technology.
- Upgrading of teaching spaces and back-office facilities with a dedicated student centre housing several currently disparately located services, and additional facilities for staff.
- Four phases of rationalisation and consolidation of academic and support activity proposed within the Masterplan for the UCL Bloomsbury estate, with a fundraising plan to maximise philanthropic opportunities for key capital projects.
- Future reviews of the non-Bloomsbury UCL campus, including holdings on sites associated with our partner hospitals. Exploration of opportunities to relocate activity not focused on undergraduate education to another area in London where large-scale facilities can be provided at lower cost.



## Highlights 2011



### The Bloomsbury Masterplan

UCL Council approved the Bloomsbury Masterplan in July 2011. It provides the strategic framework for the development and improvement of the UCL Bloomsbury estate for the next 10 to 15 years to ensure UCL's fine buildings in the heart of London best support the university's highest academic standards and global ambition.

The complete Bloomsbury Masterplan can be seen at: [www.ucl.ac.uk/masterplan](http://www.ucl.ac.uk/masterplan)

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The masterplan was prepared with a thorough review and analysis of the estate, as well as wide consultation with UCL staff and student communities. It is an appropriately ambitious plan that will make provision for growth in academic activity and for significantly increased efficiencies in our use of space. It will also provide a more environmentally sustainable estate, reducing UCL's carbon footprint, and enhance its quality for the benefit of all users.



The Bloomsbury Festival

UCL prides itself on making a difference to London life – and has done so for nearly 200 years. Today we value more than ever working with the wider community to raise educational aspirations and quality of life.

In 2011 we paved the way for our most ambitious project to date to equip local talent with the desire and capacity to pursue a higher education: the UCL Academy, a new secondary school we are sponsoring in our home borough, is due to welcome its first students in 2012. It will complement our longstanding, comprehensive programme of workshops, summer schools and partnerships with local colleges.

Beyond education, UCL's associated teaching hospitals provide thousands of Londoners with first-rate healthcare every day, building on our translational research. We share our intellectual and cultural resources with our neighbours through our renowned Lunch Hour Lecture series, exhibitions at our unique museums, and countless public talks. Our many-layered business support strengthens the financial wellbeing of businesses in London and further afield.

Our influence is felt far beyond our home city. Numerous individuals and teams are driven to take their expertise to empower and improve the lives of people across the country and the rest of the world. Our student body of more than 25,000 individuals also makes a varied and valuable contribution to local and international communities through literacy clubs, senior citizen support, legal advice, medical aid and many more activities.

Underpinning our network of community relationships is a true interaction – we encourage those outside the university to challenge our ideas and inject our teaching and research with a healthy variety of perspectives and experiences. This year, we employed several new technologies to open the dialogue with as wide a community as possible.

## Focus on: Digital Engagement

UCL continued to expand and enhance its public outreach throughout the year with a number of digital innovations. The university's online presence is a vital element of its interaction with the wider community. This year's developments continue the strong trend of engagement that promises to be mutually beneficial for the public and for UCL.

### UCL launches open access research repository

UCL Discovery, the public showcase of UCL research, was formally launched in July. The service provides details of more than 200,000 research items, and full public access to more than 6,000 items including journal articles, book chapters and conference proceedings. UCL's commitment to open access in academia is also demonstrated by its role as one of the leading contributors to the 'Roadmap Towards Open Access' launched in June by the League of European Research Universities.

### Bentham mass transcription wins major digital award

*Transcribe Bentham*, a pioneering 'crowdsourcing' scheme that involves members of the public in transcribing papers from the vast collection of philosopher Jeremy Bentham via the internet, received the Award of Distinction from the Prix Ars Electronica, the world's foremost digital arts competition. More than 1,000 volunteers have worked on UCL's extensive Bentham collection, transcribing more than 2,200 manuscripts on issues from economics to animal cruelty. The little-known writings were then made available to scholars and the wider public through UCL Library's digital Bentham collection. The eventual aim is to produce the new authoritative edition of *The Collected Works of Jeremy Bentham*.

### UCL Events blog expands audiences and discussion

The UCL Events blog was launched in March, with a review and video footage of the sell-out 2011 Rickman Godlee lecture by Noam Chomsky on 'Contours of Global Order'. The blog features contributions by a variety of writers from across the UCL community, and provides an interactive channel for feedback on and discussion about the lectures, exhibitions and other events that UCL hosts and participates in throughout the year.



The UCL Grant Museum of Zoology reopens



Lottolab at the Science Museum

## UCL Grant Museum of Zoology reopens with interactive focus

UCL's Grant Museum of Zoology reopened in March, allowing visitors to view some of the rarest extinct animal specimens in the world for the first time. The museum features 70,000 specimens, including previously lost dodo bones, a giant Irish elk with antlers measuring nearly three metres across, and the remains of an extinct species of zebra. The Grant Museum is engaging the public using cutting-edge technology, encouraging visitors to interact with the displays and explore debates about subjects including how museums operate and the role of science in society.

## Lottolab opens in the Science Museum

The Science Museum announced the official opening of Lottolab, a unique laboratory established by Dr Beau Lotto (UCL Institute of Ophthalmology) and his team. Lottolab seeks to involve the public in actively designing and running live science experiments with a focus on perception and illusion. Dr Lotto said that working directly with the public additionally provides an opportunity to run experiments on hundreds of subjects. Anthony Richards, Head of Gallery Programmes at the museum, said: "We are delighted to be able to open up the lab to allow more people to engage with actual research and interact with real scientists."

## Astronomy-inspired art displayed around the world

Katie Paterson, an alumna of the UCL Slade School of Fine Art and UCL Astrophysics Group's first artist-in-residence, exhibited work inspired by the group in several international galleries. The work, which was made possible by a grant from the Leverhulme Trust, explores ideas of star death and birth, dark matter and gamma-ray bursts.



Katie Paterson with her work *All the Dead Stars*

## Provost rewards staff and students for public engagement

The annual Provost's Public Engagement Awards were presented to members of UCL who have developed innovative and interesting ways to share their work with public audiences. Winners were selected for a variety of work including a project to enable the public to have a direct say in how museums approach disposal of objects and a national programme of engagement between deaf communities and researchers. Students, academics and support staff were represented among the winners. There was also a departmental prize for the strongest commitment to cultural change regarding public engagement (see page 33).

## Patient days nurture support networks and research involvement

The UCL Biomedical Research Centre for Ophthalmology organised two highly successful 'Patient Days' for sufferers of glaucoma and the inflammatory eye disease birdshot. Both events featured presentations from patients, researchers and medical practitioners on different aspects and perspectives of the diseases. The events helped to build networks among patients and healthcare professionals in order to reduce isolation among sufferers, allow a two-way exchange of information between patients and professionals and provide a platform for research.

## Volunteering awards recognise student contribution to London life

UCL and UCLU Volunteering Services Unit held its ninth annual awards ceremony in May to recognise the contribution of UCL's highly valued student volunteers. The Volunteering Services Unit started in 2002 with 200 volunteers, rising to 1,350 by 2011. John Braime, Manager of the Volunteering Services Unit, said that volunteering is a rapidly growing movement at UCL, reflecting a broader institutional culture of working with the wider community.

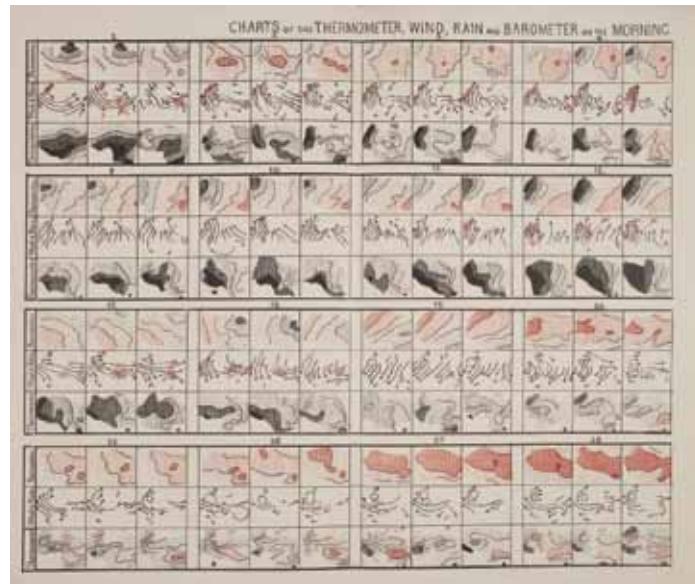
## UCL undergraduates mentor local teenagers

In August, 70 teenagers from inner London state schools took part in the week-long UCL Horizons Global Citizenship Summer School. An experienced team of UCL undergraduate ambassadors acted in supportive and mentoring roles, serving as role models for higher education. UCL academics and PhD students gave daily lectures, and the Summer School students participated in challenging debates on human rights, fair trade and global health. Many of the participants had already attended the UCL Horizons Year 10 Saturday School, a long-term academic enrichment programme.

**Film competition about patients' experiences enhances medical education**  
UCL Medical School screened a series of short films submitted by the public as part of the school's Reel Health Stories film competition. The competition was run to involve the local community in medical education and give medical students insight into patients' lives. Dr Katherine Woolf (UCL Division of Medical Education), who helped to lead the project, was declared Academic Staff Engager of the Year at the Provost's Public Engagement Awards.

## Generating Genius fosters young engineering talent

UCL's Faculty of Engineering Sciences hosted 30 talented students from disadvantaged backgrounds for the 'Generating Genius' programme, designed to develop talents in groups that are traditionally under-represented in higher education. The students learned about the latest virtual reality technology in UCL Computer Science's Virtual Environment laboratories, experimented with controlling robots using mobile phones and took part in *The Apprentice*-style competitions. Dr Tony Sewell, Director of the Generating Genius programme, commended UCL for opening up resources to engage young people in science.



A weather chart by Francis Galton

## Galton centenary programme delivers events and digitised resources

In 2011 UCL marked the 100th anniversary of the death of Francis Galton, the 'father of eugenics' and a key figure in the history of science and of UCL. The UCL Galton Collection, the UCL Petrie Museum and UCL Special Collections hosted a number of lectures and exhibitions exploring the controversial academic's life and work. A major project, supported by the Wellcome Trust, is being undertaken to digitise the Galton archive and collection with a view to making the material accessible to the public.

## Wondermind brings science to children

Dr Michelle de Haan (UCL Institute of Child Health) led the science component in an art-science collaboration to launch Wondermind, an online project designed to help children learn about the science of the developing human brain. Wondermind was inspired by Tate Liverpool's *Alice in Wonderland* exhibition. It hosts a series of games through which players learn about the development of cognitive functions

such as memory, spatial awareness and language; interactive videos that allow players to have real conversations with scientists working in the field; and a blog that poses questions about neuroscience, links between art and science, and the art of *Alice in Wonderland*.

## Built environment specialists empower local groups in city planning

Students and staff from the UCL Bartlett School of Planning, led by Senior Lecturer Michael Edwards, enabled voluntary and community groups to formulate thorough, informed and professional responses to the London Plan, the Mayor of London's 20-year development plan. The Bartlett team worked for several months with groups in the Just Space network, such as the London Voluntary Service Council and Age Concern London. They provided research, analysis and critical evaluations of the plan, which 24 organisations used in their submissions. The network persuaded the Mayor to strengthen policy on protecting local shops, extending green infrastructure, and promoting Community Land Trusts and Community Development Trusts.



The George Farha Café

© John Carey

The year saw a significant improvement in the overall financial position of the university, with the retained surplus rising from £5 million to £30 million.

While some of the improvement has come from continued income growth of 6% from almost all sources in the year, much of it has come from robust controls over its cost base. These have meant that staff and operating costs, which make up 94% of total expenditure, have risen by only 4.6%. The improvement in the surplus has followed through to the year-end cash position improved to £164 million. These results need to be taken in context. It is vital that the university generates and sustains sufficient surpluses and cash balances to meet its future investment needs, particularly in the light of an anticipated significant reduction in capital funding from HEFCE, as well as reductions in teaching grants, and to a lesser extent research funding. These results reflect the decisions taken over the past two years not only to grow our income but also to control costs in order to move UCL towards a more financially sustainable position in the long term.

The past year has been a very successful one for UCL and this is reflected in its financial results. This puts UCL in a good position to meet the challenges of the next few years arising from the Comprehensive Spending Review outcomes. Like other higher education institutions, over the coming months the university will need to consider how it will respond to these changes, which represent a fundamental change in the way universities are funded in the future. As always, this response needs to be based on an outstanding teaching package and the maintenance of research excellence.



Alison Woodhams  
UCL Director of Finance

## HEFCE 2011–12 announced

HEFCE, the Higher Education Funding Council for England, announced a £171.3 million teaching and funding recurrent grant for 2011–12 at UCL. This was £1.5 million (0.9%) lower than the final grant for 2010–11, against sector reductions of 4.1%.

Two pro rata reductions brought the total cut since UCL's 2010–11 budget to £6 million. Within the grant, the amount available for research was protected; £5.6 million of the £6 million cut fell on the teaching grant element, a cut of 8.3%.

HEFCE also indicated the allocation of capital funds, including the reinstatement of £1.1 million teaching funds clawed back last August and a £720,000 capital allocation for learning and teaching for 2012–13. The allocation for research for the years 2011–12 to 2014–15 was £40 million, a cut of around 70% on the 2008–11 allocation.

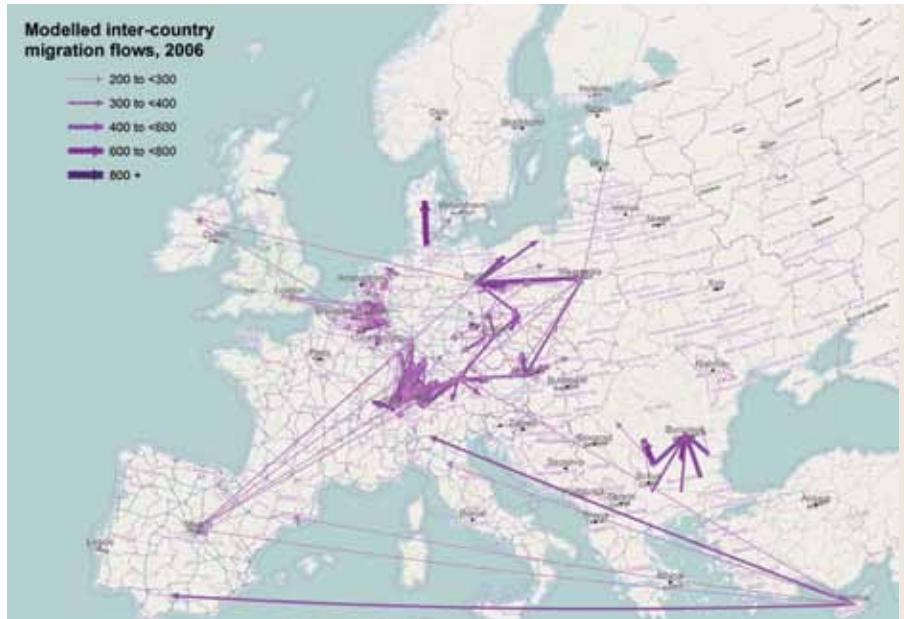
## Lewis's Building reopens with new facilities

UCL President & Provost Professor Malcolm Grant officially reopened the Lewis's Building in June 2011. The new-look building is part of the university's overall strategy to open up the campus space, improve the approach to UCL and continue to provide students with a world-class experience.

UCL alumni provided generous support for the cost of redevelopment with more than £1.2 million raised from a number of donors.

UCL Union also provided funding of £350,000. The project's total cost was just under £6 million.

The new building features facilities such as a rehearsal room, dance studio, bar, café and entertainment venue. Other improvements include a ramp for better access and lifts from the basement to the fourth floor.



Research from the FuturICT project

## UCL-led birth cohort study receives £28.5 million boost

The largest ever UK-wide study of babies and young children, led by scientists at UCL, received a landmark £28.5 million commitment from the Department for Business, Innovation and Skills, adding to an earlier £5 million contribution from the Economic and Social Research Council and Medical Research Council.

The pioneering study will track the growth, development, health, wellbeing and social circumstances of more than 90,000 UK babies and their families. It will research a range of issues including the factors involved in overcoming early social disadvantage and the effect of environmental pollutants on subsequent growth and behaviour.

## Pioneering ICT project wins €1.9 million of European funding

A UCL-led scheme to develop computing facilities capable of analysing data on a global scale received €1.9 million from the European Commission, making it one of six pilots for the commission's Future and Emerging Technologies Flagships programme.

FuturICT is an interdisciplinary initiative that aims to develop a planetary-scale computer called a Living Earth Platform. Its processing power would provide a basis for predicting natural disasters or managing and responding to man-made disasters.

UCL is also involved in another of the pilots. Professor Mark Girolami (UCL Statistical Science) is leading one of five platforms within the IT Future of Medicine project, which would advance the use of genomics in healthcare.



The proposed Sainsbury-Wellcome Centre

© Ian Ritchie Architects

### Sainsbury-Wellcome Centre granted planning permission

Plans to build a new research centre at UCL were approved by the London Borough of Camden in July. The new Sainsbury-Wellcome Centre represents a partnership between the Gatsby Charitable Foundation and the Wellcome Trust to establish a new Research Centre in Neural Circuits & Behaviour at UCL. Neuroscientists working at the centre, which is expected to be completed in 2014, will investigate how brain circuits process information to create neural representations and guide behaviour.

### Children's policy research unit established

The UCL Institute of Child Health secured a five-year, £4.6 million grant from the Department of Health Policy Research Programme to lead a new Policy Research Unit in the Health of Children, Young People and Families (CPRU).

The CPRU's work will operate around four research themes. Themes each have two projects to be completed by December 2012, the outcomes of which will inform the programme for future years. The themes in the first year are 'Healthy Child', 'Healthcare Provision', 'Child Mental Health' and 'Adolescence'.

### Biomedical research centres receive £165 million

Medical research centres run by UCL in partnership with three NHS trusts received preliminary government funding worth approximately £165 million over five years in August 2011. Three biomedical research centres (BRCs) with UCL as an academic partner were established in 2007 with National Institute for Health Research (NIHR) funding. The recent funding award included £4.5 million to enable UCLH and UCL to set up a fourth separate biomedical research unit specialising in dementia.

Professor Malcolm Grant, UCL President & Provost, said: "The outcome of this grant process really is a fantastic success for UCL and our partner hospitals. I pay tribute to all those staff who were involved in the bids and who have made these initiatives the successes that they are. The fact that we are a partner in four centres and units which will receive funding is testament to the strength of our links with UCLH, Moorfields and Great Ormond Street, and our ability to effectively combine medical research with clinical practice."

Professor Deenan Pillay, BRC Director at UCLH, said: "I can't express how pleased we are here at the BRC. It means we can continue our plans to develop some of the most cutting-edge experimental medicine. The BRC is a powerful partnership between leading clinicians and scientists, and we want to build on our partnership working. This will bring optimal, cutting-edge, research-led care to patients."



Professor Deenan Pillay

## Wolfson Foundation awards major grant for experimental neurology centre

The Wolfson Foundation awarded £20 million, its largest ever grant, for the establishment at UCL of the Leonard Wolfson Experimental Neurology Centre. It will be dedicated to the understanding and treatment of neurodegenerative diseases, such as Alzheimer's disease and Parkinson's disease.

The centre, which will be based at the National Hospital for Neurology and Neurosurgery, will accelerate the development of treatments and identify future therapeutic targets for neurodegenerative diseases, with the aim of earlier intervention for patients.

The grant was made as a result of the Wolfson Neurology initiative, designed as a legacy to Lord Wolfson of Marylebone, who died in 2010.

## School of Pharmacy merges with UCL

The Council of the School of Pharmacy, University of London, decided by a decisive majority in May 2011 that the School's long-term future would be best secured through a merger with UCL.

The merger occurred formally on 1 January 2012 when the school, now the UCL School of Pharmacy, was incorporated into UCL's Faculty of Life Sciences.

Professor Sir John Tooke, UCL Vice-Provost (Health), said that he was "confident that this innovative new alliance will be mutually beneficial, drawing on the considerable complementary academic strengths of both institutions".



The National Hospital for Neurology and Neurosurgery

## UCL looks east for additional campus

UCL and the London Borough of Newham announced plans to explore the establishment of an additional campus for UCL in the Olympic borough. If the proposals go ahead it is likely that UCL will develop a significant presence in Stratford over the next five years. Both parties will develop site proposals during 2012.

The decision to explore this opportunity was driven by several factors, including the growth strategy outlined in the UCL Council White Paper coupled with the limited long-term capacity in central London; the combination of affordability, Olympic legacy and accessibility offered by Stratford; and the expected social and economic benefit to the area from a UCL development.

## UCL researchers receive European Research Council grants

Ten UCL researchers received European Research Council (ERC) Starting Investigator grants, with a total value of more than £12.4 million. The number of grants awarded to UCL doubled from the previous year, despite competing with a record 4,080 applicants from across Europe, including 793 from the UK.

UCL's successful funding proposals were for projects focusing on a range of research subjects, including the neuropharmacology and genetics of zebrafish sleep to the place of religion in legal theory.

**Reports and Financial Statements  
for the Year Ended 31 July 2011**

**FINANCIAL HIGHLIGHTS 10/11**

CONSOLIDATED INCOME & EXPENDITURE ACCOUNT	<b>2011 £m</b>	<b>2010 £m</b>
Funding Council grants	203.3	201.0
Academic fees and support grants	172.2	150.5
Research grants and contracts	283.4	275.1
Other operating income	138.3	133.8
Endowment income and interest receivable	5.2	5.0
 Total income	802.4	765.4
Share of income from joint ventures	(0.8)	(3.0)
 NET INCOME	801.6	762.4
 TOTAL EXPENDITURE	777.4	732.4
 Share of operating loss in joint ventures and associates	(0.6)	(0.3)
Profit on disposal of tangible fixed assets	5.8	-
Profit on disposal of fixed asset investments	-	0.7
Minority interest	-	(0.9)
Transfer to accumulated income within specific endowments	(0.5)	0.1
 SURPLUS FOR THE YEAR	28.9	29.6
 CONSOLIDATED BALANCE SHEET		
Fixed assets	660.7	605.0
Endowment asset investments	72.7	67.9
Net current assets	55.3	55.5
Total assets less current liabilities	788.7	728.4
Non-current liabilities and provisions	(77.3)	(78.7)
Provision for liabilities and charges	-	(1.3)
Pension assets/(liabilities)	(4.7)	(8.1)
 TOTAL NET ASSETS	706.7	640.3
Represented by:		
Deferred grants	374.1	348.2
Endowments	72.7	67.9
Reserves	260.1	224.3
Minority interest	(0.2)	(0.1)

To read the 2010/2011 Financial Report in full, go to  
[www.ucl.ac.uk/finance/finance\\_docs/report\\_accts.html](http://www.ucl.ac.uk/finance/finance_docs/report_accts.html)

# Awards & Appointments

## Awards, Medals and Prizes

**Alzheimer's Association**  
Khalid Iqbal Lifetime Achievement Award:  
Professor John Hardy  
(UCL Institute of Neurology)

**Dargut & Milena Kemali Foundation**  
International Prize for Research in the Field of Basic & Clinical Neurosciences:  
Professor Eleanor Maguire  
(UCL Wellcome Trust Centre for Neuroimaging)

**Electrical Safety Council**  
Lightmonger's Award:  
Rachel Nicolls (MSc Light & Lighting)

**Forum for Modern Language Studies**  
Forum Prize:  
Professor Susanne Kord  
(UCL German)

**IFRAD Foundation**  
European Grand Prize for Alzheimer's Research:  
Professor John Hardy  
(UCL Institute of Neurology)

**India International Foundation**  
India International Foundation Science Award:  
Professor Alimuddin Zumla  
(UCL Infection & Immunity)

**Institute of Physics**  
Moseley Medal & Prize:  
Dr Giovanna Tinetti  
(UCL Physics & Astronomy)

**Institution of Civil Engineers**  
Baker Medal:  
Dr Dan Brett  
(UCL Chemical Engineering)

**Trevithick Fund Award:**  
Dr Catalina Spataru  
(UCL Energy Institute)

**International Society for Bayesian Analysis**  
Savage Award in Theory & Methods:  
Dr Julien Cornebise  
(UCL Statistical Science)

**Jubilee Award**  
Best AUA Advocate:  
Adam Cresswell  
(UCL Bartlett)

**New York Stem Cell Foundation**  
NYSCF-Robertson Prize:  
Professor Pete Coffey  
(UCL Institute of Ophthalmology)

**Parliamentary & Scientific Committee**  
Biological & Biomedical Sciences Gold Award:  
Talia Atkin (UCL Neuroscience, Physiology & Pharmacology)

**Biological & Biomedical Sciences Silver Award:**  
Jay Stone (UCL Ophthalmology)

**Peter Dunnill Award**  
Outstanding Contribution to UK Bioprocessing:  
Professor Mike Hoare  
(UCL Biochemical Engineering)

**Portuguese National Institute for Housing and Urban Conservation**  
Best PhD Honourable Mention  
Dr Elisabete Cidre  
(UCL Bartlett School of Planning)

**Prince Michael International Road Safety Awards 2011**  
Premier Award:  
Professor Richard Allsop  
(UCL Civil, Environmental & Geomatic Engineering)

**Robert J. Glushko & Pamela Samuelson Foundation**  
David E. Rumelhart Prize:  
Professor Peter Dayan  
(UCL Gatsby Computational Neuroscience Unit)

**Rockefeller Foundation**  
Bellagio Centre Residency Award  
Professor Yves Cabannes  
(UCL Bartlett Development Planning Unit)

**Royal College of Art**  
Lifetime Achievement Award in Inclusive Design:  
Roger Penrose  
(UCL Bartlett School of Graduate Studies)

**Royal College of Paediatrics & Child Health**  
James Spence Medal:  
Professor Anthony Costello  
(UCL Institute of Child Health)

**Royal College of Surgeons of Edinburgh**  
Syme Medal:  
Mr Mandeep Sagoo  
(UCL Institute of Ophthalmology)

**Royal Institute of British Architects**  
Co-recipients, RIBA Award: sixteen\*(makers), led by Bob Sheil  
(UCL Bartlett School of Architecture)

**RIBA President Medals:**  
Silver medal:  
Kibwe Tavares  
(UCL Bartlett School of Architecture)

**Commendation for Dissertation:**  
Costa Elia  
(UCL Bartlett School of Architecture)

**Commendation for Outstanding University-located research:**  
Professor Jane Rendell  
(UCL Bartlett School of Architecture)

**Society for Clinical Trials**  
Co-recipient, Trial of the Year:  
UCL Centre for International Health & Development: Professor Anthony Costello (UCL Institute for Global Health): co-author of the study

**Society of French Studies**  
RH Gapper Book Prize  
Professor Ardis Butterfield  
(UCL English Language & Literature) for *The Familiar Enemy: Chaucer, Language & Nation in the Hundred Years War*

**University of Amsterdam**  
Spinoza Leerstoel Award:  
Professor Alimuddin Zumla  
(UCL Infection & Immunity)



Dr Giovanna Tinetti  
(UCL Physics & Astronomy)



Dr Dan Brett  
(UCL Chemical Engineering)

**Vasile Alecsandri University**  
Diploma of Honours:  
Dr Catalina Spataru  
(UCL Energy Institute)

**Wellcome Trust**  
Wellcome Trust New Investigator Award:  
Dr Pedro Hallal  
(UCL Institute of Child Health)

**World Health Organisation**  
Kochon Prize:  
Professor Alimuddin Zumla  
(UCL Infection & Immunity)

## Fellowships

### Academy of Medical Sciences

Professor Phillip Beales  
(UCL Institute of Child Health)

Professor David Hawkes  
(UCL Medical Physics  
& Bioengineering)

Professor Eleanor Maguire  
(UCL Wellcome Trust Centre  
for Neuroimaging)

Professor Andrew Phillips  
(UCL Infection & Population  
Health)

### American Association for the Advancement of Science

Professor Andrew Pomiąkowski  
(UCL Genetics, Evolution  
& Environment)

### British Academy Fellow

Professor Martin Cripps  
(UCL Economics)

### Honourable Society of the Inner Temple

Dr Ronan McCrea (UCL Laws)

### Medical Research Council

Hashim Ahmed (UCL Surgery  
& Interventional Science)

### Royal Society

Professor Ofer Lahav  
(UCL Physics & Astronomy)

Dr John Morton OBE  
(UCL Institute of Cognitive  
Neuroscience)

Dr Matthew Piper  
(UCL Genetics, Evolution  
& Environment)

Dr Nichola Raihani  
(UCL Genetics, Evolution  
& Environment)

Dr Christoph Salzmann  
(UCL Chemistry)

Dr Simone Severini  
(UCL Computer Science)

Dr Thomas Wills  
(UCL Cell & Developmental  
Biology)

### Royal Society of Edinburgh

Professor Mark Girolami  
(UCL Statistical Science)

### UCL Honorary Fellows 2011

Professor Rick Battarbee: Emeritus  
Professor of Environmental  
Change, UCL Geography

Professor Bernard Buxton:  
Emeritus Professor of Information  
Processing, UCL Computer  
Science

Mr Victor Chu: World Economic  
Foundation Board

Dr Jane Collins: CEO of Great  
Ormond Street Hospital  
for Children

Baroness Jean Coussins:  
Advocate for the teaching  
of modern languages

Professor Janet Darbyshire CBE:  
Joint Director of the UK Clinical  
Research Network Co-ordinating  
Centre, UCL Infection & Population  
Health

Professor Paul Davies: Theoretical  
physicist & author

Michael Flesch QC: Member  
of Gray's Inn Tax Chambers

Professor Max Pettini FRS:  
Astrophysicist at the Institute  
of Astronomy, University  
of Cambridge

Dr Michael Simons MD:  
Co-founder of the  
Yale-UCL Collaborative

Mr Maurice Watkins CBE: Senior  
Partner at Brabners Chaffe  
Street LLP

## Honorary Doctorates, Fellowships, Lectureships and Senior Investigatorships



Sir Nicholas Grimshaw



Professor Richard Blundell  
(UCL Economics)

### UCL Honorary Degrees

The Right Honourable Lady  
Justice Arden (LLD): Head of  
International Judicial Relations  
for England & Wales

Professor Homi K Bhabha (DLit):  
Cultural theorist, author  
& academic

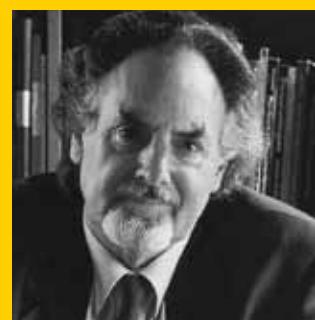
Sir David Cooksey GBE (DSc):  
Businessman & public reformer

Sir Nicholas Grimshaw CBE (DLit):  
President of the Royal Academy  
of Arts

Professor Gail Martin (DSc (Med)):  
Professor of Anatomy at the  
University of California

Dr Sir Paul Nurse FRS (DSc  
(Med)): President of the Royal  
Society & Director of The Francis  
Crick Institute

Sir Keith Peters (DSc (Med)):  
Physician & researcher



Professor Geoffrey Burnstock  
(UCL Autonomic Neuroscience  
Centre)

### NHH Norwegian School of Economics

Honorary Doctorate:  
Professor Richard Blundell  
(UCL Economics)

### University of Leipzig

Honorary Doctorate:  
Professor Geoffrey Burnstock  
(UCL Autonomic Neuroscience  
Centre)

# Awards & Appointments

## Presidencies, Directorships, Chairs and Editorships



Professor Sir John Tooke  
UCL Vice-Provost (Health)

**Academy of Medical Sciences**  
President:  
Professor Sir John Tooke  
UCL Vice-Provost (Health)

**Arts and Humanities  
Research Council**  
Chair:  
Sir Alan Wilson  
(UCL Centre for Advanced  
Spatial Analysis)

**Association for Research in  
Vision & Ophthalmology**  
President:  
Professor Peng Tee Khaw  
(UCL Institute of Ophthalmology)

**Cátedra Santiago Grisolía**  
Santiago Grisolía Chair:  
Professor Ray Dolan  
(UCL Wellcome Trust Centre  
for Neuroimaging)

**Fuel Poverty Advisory Group**  
Vice-Chair:  
Dr Gill Owen  
(UCL Energy Institute)

**Middle Temple**  
Treasurer:  
Professor Dawn Oliver  
(UCL Laws)



Professor Dawn Oliver  
(UCL Laws)

**NHS Commissioning Board**  
Chair:  
Professor Malcolm Grant

**Ofwat**  
Non-Executive Director:  
Dr Gill Owen  
(UCL Energy Institute)

**Royal Institute of British  
Architects**  
Research and Innovation  
Committee Chair:  
Professor Murray Fraser  
(UCL Bartlett School  
of Architecture)

## Memberships

**Academy of Social Sciences**  
Academician:  
Professor Mark Tewdwr-Jones  
(UCL Bartlett School of Planning)

**American Economic Association**  
Foreign Honorary Member:  
Professor Andrew Chesher  
(UCL Economics)

**American Philosophy Society**  
Professor Steve Jones (UCL  
Genetics, Evolution & Environment)

**Economic & Social Research  
Council**  
Professor Malcolm Grant

**European Molecular Biology  
Organisation**  
Professor Mark Marsh  
(UCL Laboratory for Molecular  
Cell Biology)

**Global Fund for Cities Development**  
Honorary Board member:  
Professor Yves Cabannes  
(UCL Bartlett Development  
Planning Unit)

**Office of Budget Responsibility**  
Expert Advisory Panel:  
Professor Wendy Carlin  
(UCL Economics)

**Participatory Budgeting Project**  
Board of Directors:  
Professor Yves Cabannes  
(UCL Bartlett Development  
Planning Unit)

**Resource Centres on Urban  
Agriculture and Food Security  
Foundation**  
Board member:  
Professor Yves Cabannes  
(UCL Bartlett Development  
Planning Unit)

## Royal, National and International Honours



Professor Sir Jeffrey Jowell QC  
(UCL Laws)

**New Year's Honours**  
Commander of the Order of the  
British Empire (CBE):  
Professor Nicholas Tyler  
(UCL Civil & Environmental  
Engineering) for services to  
technology

**Queen's Anniversary Prize for  
Higher & Further Education**  
UCL Institute of Ophthalmology

**Queen's Birthday Honours**  
Commander of the Order of the  
British Empire (CBE):  
Professor Jenny Thomas  
(UCL Physics & Astronomy)  
for services to science

**Order of Saint Michael & Saint  
George (KCMG):**  
Professor Sir Jeffrey Jowell QC  
(UCL Laws) for services to human  
rights, democracy and the rule of  
law in Europe

# Awards & Appointments

## UCL Awards



Members of UCL Bright Club

### UCL Awards for Enterprise

**UCL Bright Ideas Awards:**  
Brink, LearnBuddy, TagChats,  
Circalit, Frame Medical,  
Literary Kitchen

**UCL Business Award:**  
Professor Mark Pepys  
(UCL Medicine) for his  
determination in pursuing the  
development of three novel small  
molecule targets

**UCL Knowledge Transfer  
Partnership Award:**  
UCL Bartlett School of Graduate  
Studies & Max Fordham  
Consulting Engineers

**Provost's Prize: MicroTailor**

**UCL Provost's Spirit of  
Enterprise Award:**  
Dr David Chapman  
(UCL Management Science  
& Innovation)

**Small & Medium Enterprise  
Partner of the Year Award:**  
Arius3D

**Social Enterprise Project  
of the Year Award:**  
Bright Club

### London Entrepreneurs' Challenge Awards

**Winner:** Tipgain  
**Runner-up:** (undergraduate)  
One-2-One Medicine  
**Runner-up:** (graduate) eeve

### Provost's Teaching Awards

**Beginning of Career:**  
Dr Chris Blackman  
(UCL Chemistry)  
  
Dr Dominic Furniss  
(UCL Psychology & Language  
Sciences)  
  
Dr Ben Hanson  
(UCL Mechanical Engineering)

**Experienced Staff:**  
Mr Michael Ashby  
(UCL Speech, Hearing &  
Phonetic Sciences)

Dr Caroline Garaway  
(UCL Anthropology)  
  
Dr Sharon Morris  
(UCL Slade School of Fine Art)

Dr Bill Sillar  
(UCL Institute of Archaeology)

**Supporting Student Learning:**  
Dr Amanda Cain  
(UCL Structural & Molecular  
Biology)

Ms Cari Tuhey  
(UCL History)

### Postgraduate Teaching Assistant:

Mr John Mitchinson  
(UCL European Languages,  
Culture & Society)

### UCL Mathematical & Physical Sciences Faculty

**Teaching Award:**  
Professor Ted Johnson  
(UCL Mathematics)  
  
Dr Phil Jones  
(UCL Physics & Astronomy)

### Provost's Awards for Public Engagement

**Senior Staff Award:**  
Professor Clare Elwell  
(UCL Medical Physics &  
Bioengineering)

**Support Staff Award:**  
Karin Charles  
(UCL Scandinavian Studies)

**Junior Staff Award:**  
Steven Gray  
(UCL Centre for Advanced  
Spatial Analysis)

**Student Award:**  
Claire Ross  
(UCL Centre for Digital Humanities)

**Head of Department Award:**  
Dr Joe Cain  
(UCL Science & Technology Studies)

## Research Fellowships



**Dr Jason McEwen**  
(UCL Physics & Astronomy)

### Japan Society for the Promotion of Science Fellowship:

Professor Matthew Carmona  
(UCL Bartlett School of Planning)

### Newton International Fellowships:

Mr Nicola Binetti

Dr Jason McEwen  
(UCL Physics & Astronomy)

Dr Dara Sosulski  
(Wolfson Institute of Biomedical  
Research)

# Professorial Appointments

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Professor Hans van Wees  
UCL History



Professor Yvonne Rogers  
UCL Interaction Centre



Professor William Shaw  
UCL Mathematics

**UCL Institute of Archaeology**  
Chair of Archaeological Materials & Technologies:  
Professor Ian Freestone

**UCL Bartlett School of Architecture**  
Chair of Architecture & Global Culture:  
Professor Murray Fraser  
  
Bartlett Chair of Architecture:  
Mr Frédéric Migayrou

**UCL Bartlett School of Planning**  
Chair of Urban Governance & Development: Dr Mike Raco

Bartlett Chair of Planning:  
Professor Fulong Wu

**UCL Biomedicine**  
Chair of Medical Humanities & Enterprise:  
Professor Maurice Biriotti

**UCL Developmental Science**  
Chair of Psychology:  
Professor Charles Hulme

**UCL Economics**  
Chair of Economics:  
Professor Jan Eeckhout

**UCL Engineering Sciences Faculty Office**  
Chair of Engineering Policy:  
Professor Brian Collins

**UCL Geography**  
Chair of Environmental Pollution & Palaeolimnology:  
Dr Neil Rose

**UCL History**  
Grote Chair of Ancient History:  
Professor Hans van Wees

**UCL Interaction Centre**  
Chair of Interaction Design:  
Professor Yvonne Rogers

**UCL Laws**  
Quain Chair of Jurisprudence:  
Dr John Tasioulas

**UCL Mathematics**  
Chair of Mathematics & Computation of Risk:  
Professor William Shaw

**UCL Institute of Ophthalmology**  
Chair of Retinal Studies:  
Professor James Bainbridge

Chair of Regenerative Medicine & Cellular Therapy:  
Dr Julie Daniels

International Glaucoma Association Chair of Ophthalmology for Glaucoma:  
Dr David Garway-Heath

Frost Chair of Ophthalmology:  
Professor John Marshall

**UCL Political Science**  
Chair of Political Science & Public Policy:  
Professor Peter John

Chair of International Relations:  
Professor Neil Mitchell

**UCL Primary Care & Population Health**  
Chair of Clinical Epidemiology & Biostatistics:  
Professor Nicholas Freemantle

**UCL Psychology & Language Sciences**  
Chair in Developmental Psychopathology:  
Dr Richard Fearon

Chair of Psychology & Language Sciences:  
Professor Brad Love



**Dr Jean McEwan**  
UCL Cardiovascular Medicine



**Dr Karen Radner**  
UCL History



**Dr Ruben Saakyan**  
UCL Physics & Astronomy

**UCL Medical Physics & Bioengineering**  
Professor of Medical Radiation Physics:  
Dr Gary Royle

**UCL Metabolism & Experimental Therapeutics**  
Professor of Medical Imaging:  
Dr Stuart Taylor

**UCL Laboratory for Molecular Cell Biology**  
Professor in Cell Biology:  
Dr Benjamin Baum

**UCL Oncology**  
Professor of Cancer Therapeutics:  
Dr Alan Calvert

**UCL Institute of Ophthalmology**  
Professor of Cell Biology:  
Dr Maria Balda

Professor of Ophthalmic Epidemiology & Glaucoma Studies:  
Dr Paul Foster

Professor of Cell Biology:  
Dr Clare Futter

Professor of Neuronal & Vascular Biology:  
Dr Christiana Ruhrberg

**UCL Physics & Astronomy**  
Professor of Physics:  
Dr Nikolaos Konstantinidis

Professor of Physics:  
Dr Ruben Saakyan

**UCL Security & Crime Science**  
Professor of Security & Crime Science:  
Dr Shane Johnson

**UCL Slade School of Fine Art**  
Professor of Fine Art:  
Dr Susan Collins

**UCL Institute of Archaeology**  
Professor of Mesoamerican Archaeology:  
Dr Elizabeth Graham

Professor of African Archaeology:  
Dr Kevin Macdonald

Professor of Comparative Archaeology:  
Dr David Wengrow

**UCL Bartlett School of Graduate Studies**  
Professor of Urban Form & Society:  
Dr Laura Vaughan

**UCL Cardiovascular Medicine**  
Professor of Clinical Education:  
Dr Jean McEwan

**UCL Cell & Developmental Biology**  
Professor of Cell Signalling:  
Dr Sandip Patel

**UCL Chemistry**  
Professor of Chemistry:  
Dr Jawwad Darr

Professor of Chemistry:  
Dr Andrea Sella

**UCL Institute of Child Health**  
Professor in Developmental Biology & Genetics:  
Dr Jane Sowden

Professor in Adolescent Health:  
Dr Russell Viner

**UCL Civil, Environmental & Geomatic Engineering**  
Professor of Geographical Information Science:  
Dr Mordechai Haklay

**UCL Clinical, Educational & Health Psychology**  
Professor of Clinical Psychology:  
Dr Christopher Barker

Professor of Clinical Psychology:  
Dr Nancy Pistrang

Professor of Developmental Psychopathology:  
Dr Essi Viding

**UCL Clinical Neuroscience**  
Professor of Clinical Neuroscience:  
Dr Thomas Warner

**UCL–CRUK Cancer Trials Centre**

Professor of Epidemiology & Medical Statistics:  
Mr Allan Hackshaw

**UCL Earth Sciences**  
Professor of Earth Materials:  
Dr David Dobson

**UCL Economics**  
Professor of Economics:  
Dr Jerome Adda

**UCL Epidemiology & Public Health**  
Professor of Cognitive Epidemiology:  
Dr Marcus Richards

**UCL Greek & Latin**  
Professor of Greek Literature & its Reception:  
Dr Miriam Leonard

Professor of Latin:  
Dr Gesine Manuwald

**UCL Haematology**  
Professor of Clinical Haematology:  
Dr Kwee Yong

**UCL History**  
Professor of South East European History:  
Dr Catherine Bracewell

Professor of Ancient Near Eastern History:  
Dr Karen Radner

**UCL Imaging Neuroscience**  
Professor of Imaging Science:  
Dr John Ashburner

**UCL Inflammation**  
Professor of Immunology:  
Dr Claudia Mauri

**UCL Information Studies**  
Professor of Archives & Records Management:  
Dr Elizabeth Shepherd

Professor of Digital Humanities:  
Dr Claire Warwick

# People



<b>Faculty</b> <small>(reflects faculty structure before August 2011)</small>	<b>Academic and research staff</b> <small>(as of 30 April 2011)</small>	<b>Undergraduate students</b> <small>(2010/11)</small>	<b>Graduate students</b> <small>(2010/11)</small>
UCL Arts & Humanities	287	2,186	1,016
UCL Biomedical Sciences	2,139	1,911	2,436
UCL Built Environment	269	658	1,075
UCL Engineering Sciences	462	1,890	1,565
UCL Laws	103	546	553
UCL Life Sciences	603	1,787	1,294
UCL Mathematical & Physical Sciences	544	2,096	612
UCL Social & Historical Sciences	440	2,538	1,914
<b>Total</b>	<b>4,847</b>	<b>13,612</b>	<b>10,465</b>

## **UCL Officers**

Visitor  
The Master of the Rolls  
  
President & Provost  
Professor Malcolm Grant

## **Members of UCL Council**

Professor David Attwell  
Dr Bob Barber  
Ms Anne Bulford (Treasurer)  
Mr Matthew Burgess  
Mr Michael Chessel  
Ms Philippa Foster-Back  
Professor Malcolm Grant  
Mr Rob Holden  
Mr Mark Knight  
Ms Catherine Newman  
Ms Vivienne Parry (Vice-Chair)  
Ms Katharine Roseveare  
Dr Benet Salway  
Dr Gill Samuels  
Dr Stephanie Schorge  
Professor Chris Thompson  
Professor Nick Tyler  
Sir Stephen Wall (Chair)  
Baroness Warwick of Undercliffe  
Professor Maria Wyke  
  
Secretary to Council  
Mr Tim Perry

## **Vice-Provosts**

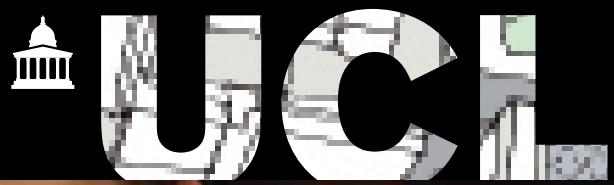
Education  
Professor Anthony Smith  
  
Enterprise  
Professor Stephen Caddick  
  
Health  
Professor Sir John Tooke  
  
International  
Professor Michael Worton  
  
Operations  
Mr Rex Knight  
  
Research  
Professor David Price

## **Pro-Provosts**

The Americas  
Professor Alejandro Madrigal  
  
China  
Professor Z Xiao Guo  
  
Europe & Central Asia  
Professor Michael Wilson  
  
Middle East & Africa  
Professor Vince Emery  
  
South & Southeast Asia  
Professor Nick Tyler

## **Deans of Faculties**

Arts and Humanities Professor Henry Woudhuysen	Director of Bloomsbury Theatre Mr Peter Cadley	Director of Information Services (ISD) Dr Mike Cope
Brain Sciences Professor Alan Thompson	Director of Careers Service Ms Karen Barnard	Director of Library Services Dr Paul Ayris
Built Environment Professor Alan Penn	Director of Centre for the Advancement of Learning and Teaching Ms Su Bryant	Director of Museums, Collections & Public Engagement Ms Sally MacDonald
Engineering Sciences Professor Anthony Finkelstein	Director of Communications & Marketing Mr Mark Sudbury	Director of Registry & Academic Services Mr Tim Perry
Laws Professor Dame Hazel Genn	Director of Development & Alumni Relations Mrs Lori Manders	Director of Research Planning Dr Andrew Clark
Life Sciences Professor Mary Collins	Director of Estates Mr Andrew Grainger	Dean of Students (Academic) Professor Michael Ewing
Mathematical and Physical Sciences Professor Richard Catlow	Director of Finance Mrs Alison Woodhams	Dean of Students (Welfare) Dr Ruth Siddall
Medical Sciences Professor Patrick Maxwell	Head of Graduate School Professor David Bogle	
Population Health Sciences Professor Graham Hart	Director of Human Resources Mr Nigel Waugh	
Social and Historical Sciences Professor Stephen Smith		



Review 2011

