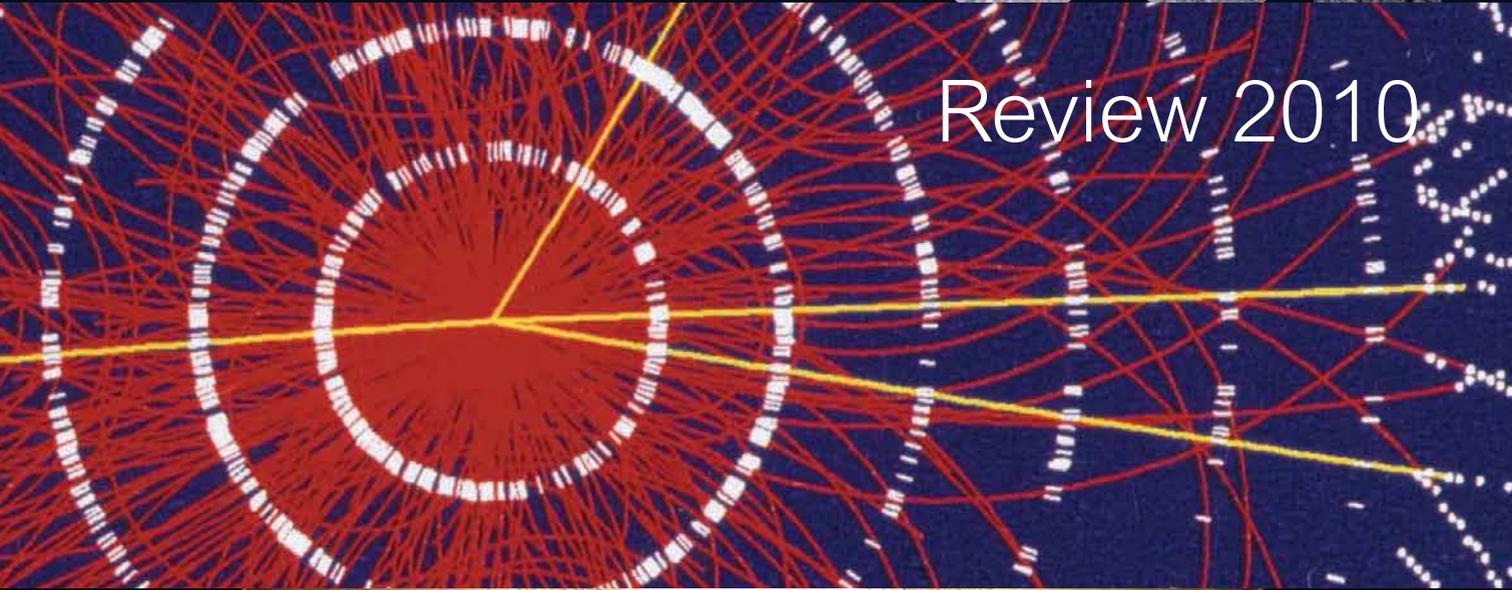




# UCL

## Review 2010



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## UCL – London's Global University

### We are

- a world-class centre of research and teaching, dedicated to developing and disseminating original knowledge to benefit the world of the future

### We believe

- in engaging fully with the world around us
- in breaking new ground through challenging convention
- in progress through partnership

### We value

- creativity and innovation
- integrity
- energy
- perseverance

### We are committed

- to the pursuit of excellence and sustainability
- to maintaining rich academic diversity embracing the Arts and Sciences
- to equality of opportunity and fulfilment of potential for our staff and students

### We strive always

- to lead
- to inspire
- to achieve

Welcome to UCL's Annual Review for 2010, which I hope will give you a clear picture of the continuing excellence of our staff and students, and of our future aspirations.

Despite an exceptionally challenging environment for higher education, it has been a year of exciting developments, and of wonderful achievements from across the UCL community.

In October, UCL signed an agreement to become first UK university to establish a campus in Qatar, focusing on Arab and Islamic archaeology and museums studies. From its opening, UCL-Q will conduct research of relevance to the Gulf and to the Arab world more broadly, with professional courses starting in spring 2011, and two masters programmes starting in 2012. Combined with major institutional partnerships cemented with Kazakhstan and China during the year, UCL really lived up to its moniker of London's global university in 2010.

UCL is committed to maximizing the impact of its research, which includes developing infrastructures which support UCL researchers to work across disciplines and bring their research to bear on public life, from the development of new medicines and business ideas, through to evidence-based policy development. 2010 saw the launch of UCL's first Public Policy strategy, building on the role played by many of our academics in formulating policy with governments nationally and internationally. A number of successful UCL enterprises have bloomed in the period, including major investment in Endomagnetics, a medical imaging company sprung from UCL research, and the launch of Mapping for Change, a social enterprise that will support sustainable communities through online mapping.

Every reader of this review will be aware of the unprecedented changes to the funding of higher education that were confirmed in 2010. These changes will influence the future direction of the university, but I am determined that in the coming year we set out an ambitious strategy that is not only financially viable but builds on the academic excellence and rigour of the institution.

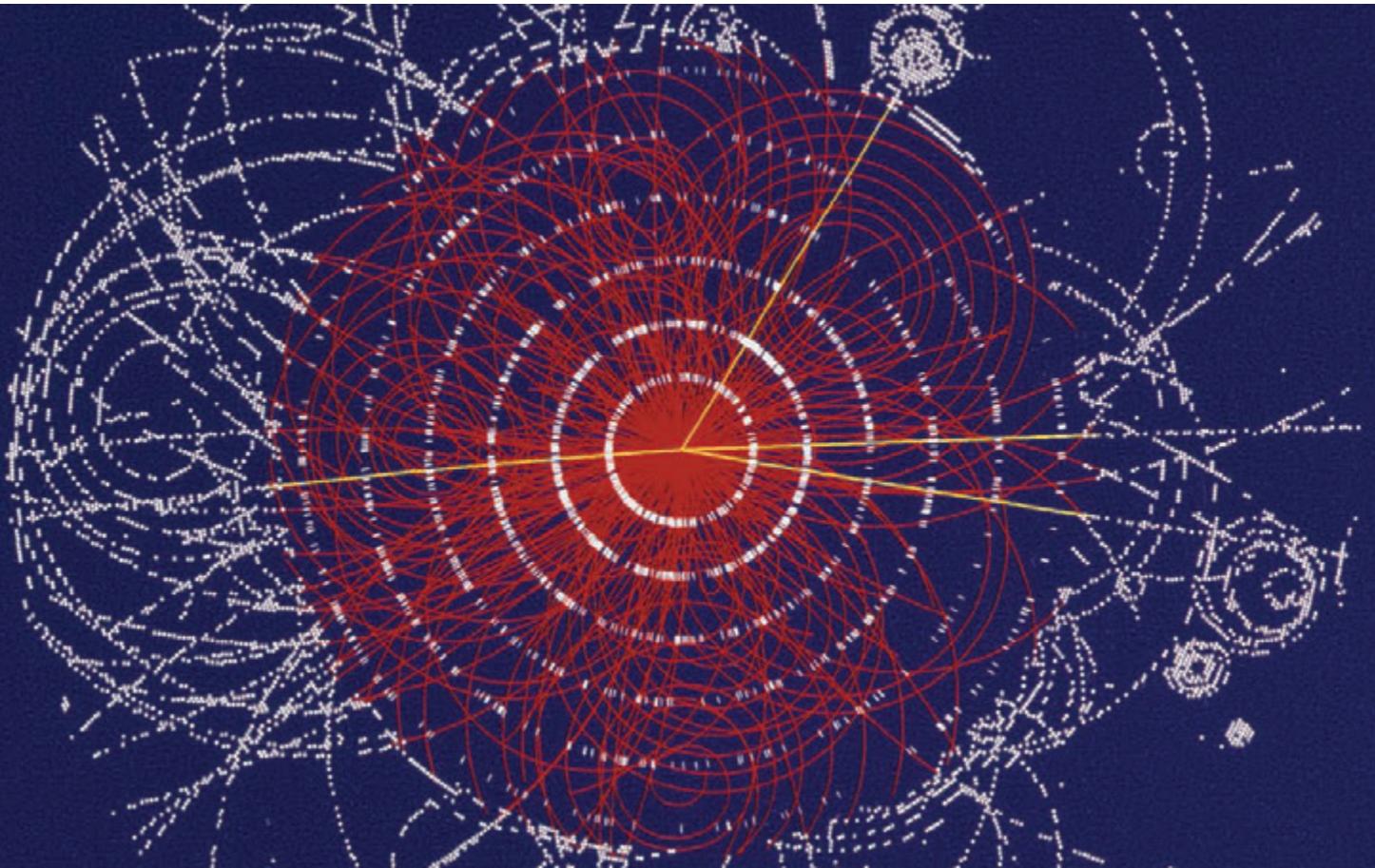


We are entering a wholly new era, and alongside all universities, we must put ourselves in the place of parents and students who are facing high costs and an uncertain future. In response to these changes, UCL must drive out all waste and unnecessary cost in its processes, whilst ensuring that we invest in the highest quality in teaching and student support. It is crucial that the student experience is excellent across all areas of university life. A major estates planning project, the Bloomsbury Masterplan, is currently being developed in order to transform the UCL campus and meet the needs of future generations of students and staff.

We are faced by many uncertainties. UCL is operating in an environment of global competition with limited resources. Changes in UK policy – such as the current proposals to tighten and limit immigration – will continue to pose major challenges for this institution. We have to make our own way, and it will be in a world where there will be the highest premium to quality, every bit as much in teaching as in research. More than ever before, UCL will need to be consistently excellent and rigorous in order to survive and flourish.

A handwritten signature in black ink, which appears to read "Malcolm Grant". The signature is fluid and cursive.

**Professor Malcolm Grant**  
UCL President and Provost



Developing interdisciplinary research and getting the results into policy and practice was central to our activity in 2010.

We have 4,000 leading researchers making exciting discoveries and generating advances in specialist knowledge. However, their collective expertise can be made even greater than the sum of its parts. Through UCL Grand Challenges we provide opportunities for these researchers to interact across and beyond their conventional disciplinary boundaries: analysing profound and complex problems from multiple perspectives in order to develop wise and timely solutions.

During 2010, the opportunities for such interdisciplinary interaction to tackle global problems included the Urban Water Poverty workshops, the new Global Migration Symposia series, the UCL–Lancet Commission on Healthy Cities, the Transnational Histories conference and the Carbon Governance research project.

Collaborative practices were further embedded through the establishment of a variety of inherently interdisciplinary research groups. These included the UCL European Institute, the UCL

ATLAS: Simulated Higgs decaying into four muons  
Image copyright: CERN

Institute for Risk & Disaster Reduction, the UCL Centre for Digital Humanities, the UCL Institute of Sport, Exercise & Health, the UCL Jill Dando Centre for Forensic Sciences and the UCL Computational Life & Medical Sciences Network.

We are intent that the innovative problem-solving undertaken through these activities be made compelling to policymakers. Thus we have established the UCL Public Policy Strategy to optimise the impact of our research and expertise on policy formation and to ensure that our contributions respond to significant and urgent policy issues.



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

### UCL's role in world's largest scientific experiment

On 30 March, protons collided at seven trillion volts – the highest energies ever achieved by a man-made particle accelerator – at CERN (the European Organisation for Nuclear Research), which houses the Large Hadron Collider (LHC), near Geneva. The breakthrough marked the start of a two-year campaign that could see scientists make new discoveries about the universe and answer some of the unresolved questions in physics. The LHC aims to explore the nature of the universe moments after the Big Bang and to improve the understanding of how the universe was created, what it is made of and how it will evolve. UCL's Professor John Butterworth (UCL Physics & Astronomy) is leading the ATLAS detector's UK team. The LHC will run at seven trillion volts for 18 months to two years to deliver enough data to make significant advances across a wide range of physics areas. With the amount of data expected, scientists will be able to explore a wide mass range, with the possibility of discovering the Higgs boson particle, the missing solution to one of the most basic puzzles in particle physics – why some particles possess mass and others do not.

### Rethinking land management

The country needs a radical rethink of its approach to managing land and its use, according to a major report co-authored by UCL's Professor Mark Tewdwr-Jones (UCL Bartlett School of Planning), who is one of the leading experts behind Foresight's *Land Use Futures* report. Foresight, part of the Government Office for Science, is a thinktank that informs the strategic and long-term choices facing government departments, business and the general public. It looks at how landscapes and land use could change over the next 50 years. The report outlines the findings of a two-year study involving more than 300 experts in subjects ranging from ecology, economics, planning and geography. As well as climate change and



Land use, London

a growing and ageing population with more people living alone, the report says the land system will come under new pressures from the rise of the low-carbon agenda alongside rising expectations associated with growing incomes, such as more living space, better transport, and additional health facilities.

### England's health inequalities 'unfair and unjust'

Most people in England don't live as long as the rich and suffer more ill health, according to the major UCL-led review, *Fair Society, Healthy Lives*, which proposes new ways to improve everyone's health and reduce inequalities. The government asked Professor Sir Michael Marmot (UCL Epidemiology & Public Health) to conduct the independent review. It concluded that, although health inequalities are normally associated with the poor, premature illness and death affects everyone below the wealthiest tier of English society. People living in the most deprived neighbourhoods will on average die seven years earlier than people living in the richest neighbourhoods.

Even more disturbingly, people living in poorer areas not only die sooner, but spend more of their lives with disability – an average total difference of 17 years. The review has estimated the cost of health inequalities in England as running into more than £50 billion per year from lost productivity and taxes in addition to healthcare costs. The review also predicts an increase in the cost of treating the various illnesses that result from inequalities in obesity alone to rise from £2 billion per year to nearly £5 billion per year by 2025. It calls for health inequalities to sit alongside tackling climate change as one of society's core priorities. Creating a sustainable future is, the review argues, compatible with action to reduce health inequalities: sustainable local communities, active transport, sustainable food production, and zero carbon houses will all have health benefits across society.

## Focus on: Improving newborn survival rates

Women's community groups have had a dramatic effect on reducing neonatal mortality rates in some of the poorest areas in India, according to new UCL research published in *The Lancet*. A previous study conducted in Nepal suggested that participatory women's groups could achieve a significant impact on neonatal health in poorer countries.

To see if these findings could be applied in other countries, the researchers repeated the exercise in Jharkhand and Orissa, two of the poorest states in eastern India. Neonatal mortality rates in the two regions are 49 and 45 per 1,000 live births respectively, disproportionately higher than India's national estimates of 39 per 1,000. By comparison, in the UK the figures are four per 1,000.

Between 2005 and 2008, a team of researchers led by Professor Anthony Costello (UCL Institute of Child Health) and Dr Prasanta Tripathy, from the Indian voluntary organisation Ekjut, evaluated how women's groups affected neonatal mortality and maternal depression in intervention areas as compared to areas where no participatory groups were set up. The groups were facilitated by local women, non-healthcare professionals who tended to be married, with some schooling, and respected members of the community. The effects of the interventions were dramatic: by the second and third years of the trial, the neonatal mortality rate had fallen by 45%.



Mother and child  
Sudharak Olwe

These areas also saw a significant fall (57%) in moderate depression amongst mothers. The researchers believe that improved social capital – the access the group gave women to a wider support network of peers – was potentially the most valuable aspect. It may also explain why such groups have had much greater success than direct – even one-to-one – interventions with healthcare workers.

### Launch of Centre for Digital Humanities

The UCL Centre for Digital Humanities launched in May 2010 with a speech by James Murdoch of News Corporation. The centre brings together research from the traditionally separate disciplines of computing and humanities to create new tools that enhance the understanding and study of the humanities and culture heritage. Its researchers will also analyse the impact of these new techniques on cultural heritage, memory institutions, libraries, archives and digital culture. Digital humanities involves the study of texts, images, film, sound, performance, and objects from museums, galleries or

archaeological digs among other artefacts. It covers the creation of digital models, collections, software, systems and interfaces, as well as the study of how audiences use these kinds of resources. Key areas of interest include how digital data and objects may be retrieved, organised, collected, curated and preserved for future use. The centre already has several projects to its name, many of which involve collaboration with departments and centres across UCL, as well as external organisations, such as the National Gallery, the Science Museum and the Southbank Centre.

### 'Research Project of the Year' winners

Research that proves the existence of atom-sized 'magnetic charges' that behave and interact just like electric charges has been awarded the prize for 'Research Project of the Year' at the 2010 Times Higher Education Awards. The project, which was funded by the Engineering and Physical Sciences Research Council, discovered new magnetic properties of materials including a magnetic equivalent of electricity – a phenomenon dubbed 'magnetricity' by Professor Steve Bramwell, one of the team from the London Centre for Nanotechnology, which also included Dr Andrew Wills and Professors Gabriel Aeppli and Des McMorro. Magnetic poles usually occur in inseparable north-south pairs. Discrete, separable poles called monopoles have been postulated since 1894 but they hadn't been observed until the team detected them in special crystals known as spin ice. They were able to use magnetic fields to make the monopoles flow in a similar way to electrons in an electric current. By engineering different spin ice materials to modify the ways monopoles move through them, the materials might in future be used to boost computing power.

### New lab to study fuel cell hybrid vehicles

An old laboratory within UCL Mechanical Engineering has been converted into a state-of-the-art facility to study fuel cell hybrid electric vehicles. The new facility will allow research into hydrogen-fuelled power plants and initial studies will concentrate on examining the potential of fuel cells in hybrid buses. The grant is part of a three-year, £4 million project – involving UCL, BAE Systems and Alexander Dennis, and funded by the Technology Strategy Board – to develop hybrid bus technology, seeking significant fuel savings through a number of innovations. The bus was recently awarded 'Low Carbon Emission Bus' certification by proving that its



Fuel cell hybrid bus

greenhouse gas emissions were over 30% lower than an average diesel bus with the same passenger-carrying capacity. Principal investigator Professor Alan Smith (UCL Space & Climate Physics) said: "This is an exciting project, as it allows us to apply systems engineering techniques that we routinely use for space technology a bit closer to home. It's great to see the buses that we're working on rolling down Gower Street every day."

### The shaping of suburbs

Researchers from three departments at UCL are studying how small-scale centres of social and economic activity are shaped by the way in which physical and social networks change their form through time. The project aims to fill the gap in knowledge about how smaller centres form part of the large-scale spatial/social network and address how local self-organisation, design interventions and functional changes have an impact on this process. The team includes Dr Laura Vaughan and Dr Sam Griffiths (UCL

Bartlett School of Graduate Studies), Dr Victor Buchli (UCL Anthropology), and Dr Mordechai Haklay (UCL Civil, Environmental & Geomatic Engineering). Dr Vaughan said: "The need for a specific policy on suburbs to realise their 'untapped potential' is essential to improve the quality of cities today. At a time of great social and economic flux, characterised by new communications technologies and radically changing patterns of work, living and consumption, suburban centres are an essential part of the urgently needed re-evaluation of how to plan for the future growth of our older cities. The research will provide evidence for policy-decision making and for planning and design to improve the future sustainability of the ageing built environment. This research will also benefit the public by improving the quality of life in local neighbourhoods."



Ciaran Finn-Lynch and Professor Martin Birchall

## Biodiversity on film

UCL researchers provided insights into their work in a series of short films for the International Year of Biodiversity. Professor Volker Sommer (UCL Anthropology) discussed his unique project to protect West African primates; another film followed undergraduates on the Ecological Genetics course in southern Spain, as they investigated evolutionary biology in the region's unique and varied ecosystem. Palaeobiologist Dr Anjali Goswami (UCL Genetics, Evolution & Environment and UCL Earth Sciences) explained what we can learn about biodiversity from the collections at UCL's Grant Museum of Zoology. Dr Julia Day (UCL Genetics, Evolution & Environment) provided an insight into her work on the Great Lakes of East Africa, which are among the richest freshwater ecosystems on Earth. Finally, students from the groundbreaking MSc in Conservation gained a first-hand understanding of the problems they must confront in their efforts to protect biodiversity. Course tutor Dr Peter Jones led them along the sea wall of the Blackwater Estuary in Essex, examining the dilemma facing this fragile ecosystem.

## Revolutionary transplant operation

Professor Martin Birchall (UCL Ear Institute) led a team of scientists and surgeons have led to transplant a new trachea into a child and use the child's own stem cells to rebuild the airway in the body. The revolutionary operation – a world first – involved laboratory-based scientists and hospital-based clinicians working in partnership with colleagues in Europe to treat 10-year-old Ciaran Finn-Lynch. He was born with a rare condition resulting in his windpipe not growing and restricted breathing. Shortly after birth, he underwent a conventional trachea transplant at Great Ormond Street Hospital for Children (GOSH), but his condition deteriorated in 2009. Scientists and surgeons at UCL, GOSH, the Royal Free Hampstead NHS Trust, and the Careggi University Hospital in Italy, developed a new technique to treat the life-threatening condition. The application of this technology – which has never been used on a child before – should reduce greatly the risk of rejection of the new trachea, as Ciaran's stem cells will not generate any immune response.

## Study shows weight loss breakthrough for overweight children

A UCL study proved the success of the weight management programme MEND for overweight children. Professor Atul Singhal (UCL Institute of Child Health) led the study, published in the journal *Obesity*, which showed that participants in the MEND (Mind, Exercise, Nutrition... Do It!) programme lost weight, lowered their body mass index and waist circumference, and improved their self-esteem and physical activity levels. All measures improved at six months and were sustained at 12 months. Their general health, including cardiovascular fitness, also improved. The independent study is the first randomised controlled trial in the UK to investigate the benefits of a community-based child weight management programme.

## Judicial Institute launch

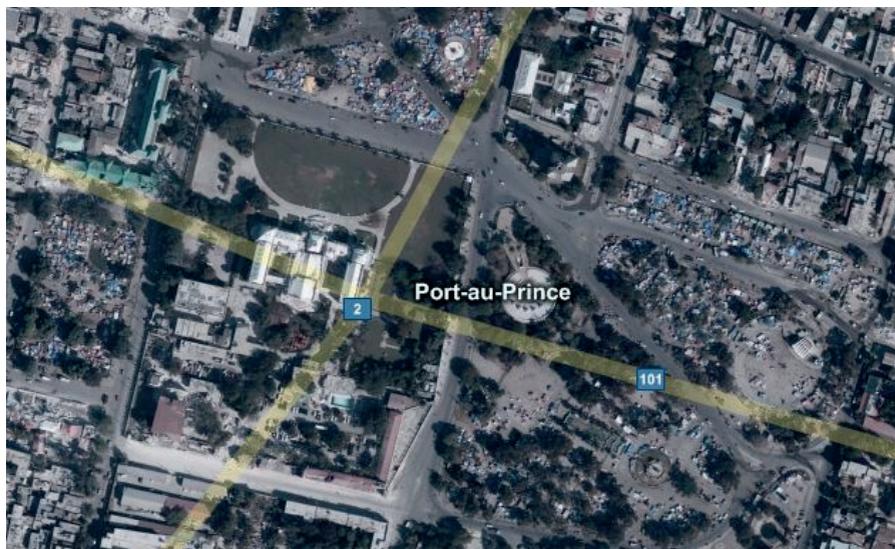
In November, UCL Laws launched its new Judicial Institute, the UK's first and only centre of excellence in research, teaching, policy engagement and scholarship on the judiciary. Often referred to as the 'third arm' of government, the judicial system is of crucial importance to legal decision-making in this country, with a profound impact on all areas of society and all citizens. However, the UK's judiciary has never been subject to broad academic scrutiny, despite the fact that such study is widespread and a greater part of legal teaching and research in other countries, including the US. The creation of the institute will address that gap, creating a better and more thorough understanding of the judicial system and its workings. It is dedicated to the ongoing study of how judges are appointed, how they reach decisions, the operation of the courts, and the relationship between the judiciary, other social institutions and other branches of government. Its aim is to inform this vital area of legal practice, through teaching, research and public policy engagement.

## Colorectal cancer incidence slashed through single screening test

Just one five-minute screening test for people aged between 55 and 64 could reduce the incidence of colorectal cancer by a third and prevent thousands of deaths from the disease, UCL scientists have found. Their findings were based on a trial on a test group of 170,432 men and women who were randomly assigned either to a control group (who were not offered screening) or to be offered flexible sigmoidoscopy screening (the 'Flexi-Scope' test) and were then followed over the course of 11 years. Approximately one in 20 people develop colon cancer in their lifetime, and the disease causes 16,000 deaths a year in the UK. Early economic analysis suggests that an NHS national screening programme using the test in this age group could save money because of the relative cheapness of the test and the cost-savings from avoiding later cancer treatments.

### Quantum computer a stage closer

The remarkable ability of an electron to exist in two places at once has been controlled in the most common electronic material – silicon – for the first time. The research findings – published in *Nature* by a UK–Dutch team from UCL, the University of Surrey, Heriot-Watt University, and the FOM Institute for Plasma Physics – marks a significant step towards the making of an affordable ‘quantum computer’. The scientists managed to make an electron simultaneously exist in two places, and crucially, control its behaviour, in the cheap and simple material out of which ordinary computer chips are made. By utilising this ability, the development of a quantum computer may be just over the horizon.



VDV image of Haiti

### Helping stroke survivors read again

A medical and technological collaboration between the UCL Institute of Neurology and UCL’s Multimedia team has developed Read-Right, a therapeutic website designed to help people with Hemianopic Alexia (HA) to improve and test their reading ability from their own homes. HA damages a person’s sight, usually after a stroke or brain injury, and results in the loss of half of a person’s field of vision, making reading difficult and slow. Some people give up reading or even lose their jobs because they can’t read at a sufficient pace. Read-Right enables people with HA to read scrolling text, which is easier to read than static writing on a page because it creates an involuntary eye movement. The therapy has been shown to improve a person’s ability to read normal text when used as part of a rehabilitation programme. It also enables the exchange of audiovisual material and test results between the reader and the website, which offers clinical support.

### Earthquake experts focus on helping Haiti

Scientists and engineers from UCL used an innovative web tool to share their expertise to help Haiti’s earthquake victims. The Virtual Disaster Viewer (VDV) is used by aid agencies to target emergency food and medical supplies, prioritise repairs to infrastructure, and plan reconstruction and recovery. UCL’s contingent is among the hundreds of earthquake scientists and engineers working with the VDV to access high-resolution ‘before and after’ satellite and aerial photos of the disaster zone. The VDV collates this information to build up a master map of the damage and dislocation caused across the whole disaster zone. It can also integrate aerial intelligence with detailed ground-based photos as it allows field reconnaissance teams to upload photos in real-time. The data can be accessed through any internet-connected device. The VDV is also suitable for use in disaster situations such as hurricanes, tsunamis and floods.

### Eye test to aid Alzheimer’s detection

A simple and inexpensive eye test could aid detection and diagnosis of major neurological diseases such as Alzheimer’s at an earlier stage than is currently possible. The research, led by Professors Francesca Cordeiro and Stephen Moss (UCL Institute of Ophthalmology), demonstrates a new technique that enables retinal, and therefore brain cell death, to be directly measured in real time. The method could not only refine diagnosis of neurodegenerative disorders and help track disease progress; it could also aid the assessment and development of new treatments. This research is the first ever in vivo demonstration of retinal nerve cell death in Alzheimer’s disease. The project has been supported by the UCL Business proof-of-concept funds and two patents have been filed around this technology.



When we first described ourselves as ‘London’s Global University’, some people thought that we were overly ambitious. However, our approach to internationalising our research and teaching and our commitment to establishing effective partnerships with business and industry around the world have now convinced even the sternest doubters.

In this past year, we opened our School of Energy & Resources in Adelaide, Australia (UCL SERAus). I was also privileged to speak at the opening of the Nazarbayev University in Astana, the capital of Kazakhstan where UCL now has 60 staff teaching 500 of the very best Kazakhstani students on our Undergraduate Preparatory Certificates. UCL is now also creating with the Nazarbayev University a School of Engineering, which we shall mentor and support.

In autumn, we signed an agreement to establish UCL-Q, the first British university campus in Qatar; through its cultural heritage programmes, it will help to build a sense of national identity not only in Qatar, but in the whole of the Gulf region.

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#### Qatar Foundation Ceremonial Court

We also created the innovative MSc in Facilities Management – a collaboration with the Building and Construction Authority (BCA) in Singapore, whereby a UCL Masters is delivered to professionals in Singapore through both face to face and online delivery of teaching. This programme is particularly exciting because it is delivered in a hybrid mode, with teachers from UCL and BCA physically present and materials being made available virtually to all students on a 24-7 basis.

UCL thus continues to demonstrate how it is indeed London’s Global University, in terms of our physical presences overseas, our international partnerships, and our framework of Global Citizenship for Education, in which all of our teaching programmes operate. Above all, UCL is truly global in its mindset.



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

## Focus on: International Campuses

The UCL School of Energy & Resources in Adelaide was formally opened on 28 April. The school, UCL's first ever campus outside the UK, was opened by the British High Commissioner to Australia, Baroness Valerie Amos; the South Australian Premier, the Hon. Mike Rann; UCL President & Provost Professor Malcolm Grant; UCL Vice-Provost (Academic & International) Professor Michael Worton; and energy company Santos CEO, David Knox.

Professor Tony Owen, Campus Director and Santos Chair of Energy Resources, said: "Our energy policy issues in this country are dominated, directly and indirectly, by major concerns about the environmental degradation arising from widespread combustion of fossil carbon intensive fuels. The degree of complexity associated with the issues, impacts, and potential solutions, has highlighted the requirement for a rigorous, multidisciplinary, visionary, approach." As Foundation Partner, Santos is providing \$10 million over five years to help establish the school, including scholarships, academic research, a leadership development program, the establishment of the International Energy Policy Institute, and the professorial chair held by Professor Owen. David Knox said: "UCL's academic excellence on issues of carbon and energy is attuned to the skills we need in Australia as we face the dual challenges of energy security and transitioning to a carbon-constrained economy."



UCL Torrens Building, Adelaide

### UCL to support heritage in the Gulf with Qatari campus

UCL will become the first British university to open a campus in Doha, Qatar, following an agreement by UCL, Qatar Foundation for Education, Science & Community Development and Qatar Museums Authority (QMA). Approximately 150 students per year will study a range of research programmes and masters degrees in archaeology, conservation and museum studies at UCL in Qatar (UCL-Q), while a wide range of bespoke training courses will be provided for QMA's museum and heritage professionals.

Each of the three factions brings a network of other regional and international partners. This development will position Qatar as the regional centre of excellence in museum practice as well as furthering the understanding of Arab and Islamic archaeology. It will also establish Qatar as an international centre of excellence in research in archaeology, conservation, cultural heritage and museology. The UCL campus will have a distributed form, being situated both in Education City which currently houses branch campuses for seven international universities, and also in many parts of QMA's museums, archaeological sites and conservation facilities. This distributed approach to UCL-Q will ensure that its activities take place in the parts of Qatar's developing cultural resources where they can best serve the needs of heritage professionals, researchers and students.



Education City, Qatar



Hong Kong

### **Hong Kong conference reflects global nature of climate change challenge**

UCL co-hosted a climate change conference in Hong Kong in November, which brought together academics and practitioners from all parts of the world. The two-day conference was held at The University of Hong Kong (HKU) and the wide variety of nationalities represented underscored the global nature of the climate change challenge. The keynote speech was delivered by Mr Edward Yau, Secretary of State for the Environment in Hong Kong. This conference was a result of close collaboration between Professors Jolene Lin (HKU Law) and Professor Joanne Scott (UCL Laws), who said: "This collaboration is of immense value as it facilitates a bridging of Europe and Asia – two regions which are so crucial in meeting the challenge of climate change. This is just one example of partnership between our two faculties and universities. Exciting plans for continued collaboration are under way."

### **UCL spreads city planning expertise to China**

UCL signed two Memoranda of Understanding with officials from the Changsha-Zhuzhou-Xiangtan City Cluster (CZT) in China's Hunan province and Central South University Business School (CSU) to foster exchange of expertise in city masterplanning within the region, which comprises eight major cities and is home to 65 million people. The agreement was part of the UK-China Business Summit led by Prime Minister David Cameron. The agreement demonstrates the benefits of translating research knowledge into practice and in so doing fostering closer ties with China, from which broader UK commercial opportunities can follow. The CZT is a critical development zone which aims to build a world-class, modern, ecological, liveable city cluster which addresses sustainability and industrial growth. As part of their long-term strategy the CZT City Cluster needs to address energy demand reduction, integrated transportation systems, water, heritage conservation, regeneration and a programme of sustainable urbanisation. 2010 has seen a concerted effort by UCL's Bartlett Faculty of the Built Environment to identify both research and income-generating activities in mainland China, and this agreement builds on decades of goodwill brought about through academic research networking activities and the significant Chinese cohort of students and staff that contribute to the social and intellectual fabric of UCL and The Bartlett Faculty of the Built Environment in particular.

### **UCL students join global summit for young pioneers**

In February, Dominic Baliszewski, a masters student at the UCL Institute of Child Health, was among the delegates who attended the One Young World summit. The event brought together 1,000 young people from 192 countries for a leadership summit in London to address major global challenges. The attendees were selected based on their leadership potential and their engagement in social change. Subjects ranged from global health and interfaith dialogue to the environment and the media. The debates were supported by counsellors including Desmond Tutu and Kofi Annan. The aim was to generate resolutions for a better future and in so doing to develop and link up a global network of alumni.

### **Partnership agreement with New University of Astana**

A partnership forged between UCL and the New University of Astana (NUA) will enable more high-potential school-leavers from Kazakhstan to meet the demanding academic standards required for entrance to the world's top bachelor degrees. The agreement sees UCL delivering a foundation year at the NUA and a programme in English for academic purposes, which started in September 2010. The foundation year is modelled on the highly successful University Preparatory Certificate (UPC) programmes that the UCL Language Centre in London offers to high-ability international students. The UPC constitutes the first year of the NUA's four-year bachelor degree programmes. The programme in English for Academic Purposes (EAP), also currently available in London, caters for able students whose English requires further support before they can benefit from the UPC. Entry standards are set at the same level as in London. The NUA is a new university established by the Kazakh government, with strong support from Nursultan Nazarbayev, President of Kazakhstan, to bring world-class education to the Kazakh people, with the aim of becoming the leading university in Central Asia.



2010 was an important year for UCL, as it saw the publication of our new Institutional Learning and Teaching Strategy 2010–2015. We are committed to developing further innovative ways of teaching and assessing, using more of the new technologies, so that our students can take an even more active part in their learning and access learning materials at any time of the day and from wherever they are.

We are also keen that our students gain more experience of what we call ‘experiential learning’, i.e. learning through work placements, volunteering, visits to museums, galleries, companies, etc. using London as an extension of the UCL campus as well as making greater uses of digital spaces. This is a part of our vision of the UCL learning experience as one of preparation for global citizenship, which involves an understanding of how the world of work functions, and of what our responsibilities are and how we can best contribute to improving the communities in which we live.

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UCL students preparing for a lecture

Now that we have three facilities overseas (in Australia, Kazakhstan and, from 2011, in Qatar), we want to establish UCL as an international hub for innovation in teaching. To do this, we are developing a network of high-level partnerships with international, research-led universities which will include the exchange of short Teaching Fellowships, so that we can learn from the best provision throughout the world and share our excellence with our partners. Our students will have their own part to play in this international exchange, reporting back to us on the excellent methods that they have encountered when studying abroad, whilst also presenting UCL approaches to their teachers overseas.



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



UCL Academy site, North London

## Focus on: UCL Academy

In August, UCL received confirmation that the UCL Academy project will proceed. From September 2012, the academy, a secondary school for 11–18 year-olds, will be housed in purpose-built accommodation on Adelaide Road in Swiss Cottage.

The new buildings will be specifically designed to support the curriculum and pastoral structures that the school will offer. The UCL Academy will be an exciting and inspiring place, with high quality teaching and outstanding facilities. A core aim is to provide the highest quality teaching in a first-rate learning environment. Subject specialists will develop and deliver teaching programmes for all students, and will be supported in their subject knowledge through links with UCL staff. UCL students will be encouraged to work in classrooms as tutors and mentors. The university will support UCL Academy staff to engage in further professional study, including providing fully-funded places on UCL masters' programmes, particularly the MA in Academic Practice, as well as opportunities to undertake formal research into issues relating to teaching and learning.

## Teaching & Learning Conference 2010

UCL held its 7th biennial Teaching & Learning Conference and exhibition in July. This was a forum for the UCL community to share good practice and to discuss issues and innovative approaches relevant to the student learning experience. The overall theme this year was the exploration of UCL's concept of Education for Global Citizenship and our commitments as London's Global University. The conference explored how an HE curriculum contributes to an education for global citizenship through presentations, discussions, debates, workshops, and an exhibition. All aspects of teaching in higher education and of the student learning experience in the 21st century were represented. To demonstrate UCL's commitment to enhancing the UCL student learning experience, the conference provided opportunities for UCL students to work as project assistants in support of the conference manager in the lead up to the event during a once-a-week internship.

## Spring school explores secrets of security science

25 students took part in UCL's Security Science Spring School at UCL SECReT, the university's security science doctoral research centre. The two-day school was open to second- and third-year undergraduates and current masters students from UCL and other universities. The participants came from a range of scientific departments, but all had demonstrated an interest in pursuing PhD research in this area. The school gave them an understanding of what constitutes security science and developed their presentation, team-working and networking skills. The students participated in multidisciplinary mini-projects with the support of UCL researchers. One group of five students at the spring school received a £250 prize for their winning mini-project 'Seeing With Sound'. Dr Kevin Chetty (UCL Security and Crime Science), who supervised their project, said: "The team took part in a cutting-edge project using a high-specification acoustic

camera to capture people's body movements for surveillance applications. I was most impressed by the way they quickly grasped technical concepts such as Doppler theory and Fourier analysis."

## Transition Programme rolled out

Transitions, an innovative and unique support project for new UCL students featuring advice from current students both online and in person, has been rolled out across the university following a successful pilot. The programme supports all new UCL students in adapting to university life, assisting first years in dealing with the social, academic and personal issues that are specific to UCL. Departments with a full Transition Programme run a mentoring scheme with experienced students in the same teaching area and workshops on academic skills. It also promotes events and discussion about all the issues that affect students, ranging from accommodation and finance to jobs and socialising.

## Human Rights Review and Grassroots Initiative

The second edition of the student-edited UCL Human Rights Review, encompassing contributions from eminent legal experts, UCL academics and students, was launched in March. The review aims to invigorate human rights academia by publishing original contributions by students and human rights professionals together in one journal. Judge Christos Rozakis and Shami Chakrabarti, Director of Liberty, are among the authors of this volume. The UCL Student Human Rights Programme's 'Grassroots Initiative' sets out to educate children about the importance of respect for one another and humanity. Co-ordinator Alice Cole Roberts explained: "Even basic knowledge of rights and duties that, as human beings, we should observe, will help make a considerable difference to the way many approach everyday social situations. Our workshops see volunteers from UCL leading weekly discussions with children from the ages of 12–16 at London schools, with the objective of using education to ingrain the culture of defending human rights into classrooms and homes."

## Art and architecture out of the classroom

In January, a group of students from the UCL Bartlett School of Architecture took their radical ideas from the design studio to a vacant site in East London. The project, led by tutors Dr Jan Kattein and Liam Young, allowed the students to explore bold approaches to the challenge of sustainable urban development in a real environment. Meanwhile, 18 students from the UCL Slade School of Fine Art took up residence in the windows of Heal's flagship Tottenham Court Road furniture store to create a unique piece of retail theatre. Heal's has been at the forefront of modern design for 200 years and worked with UCL as part of its bicentenary celebrations. Interactive art installations were created day and night in Heal's showcase window.



Artists in Residence project at Heal's

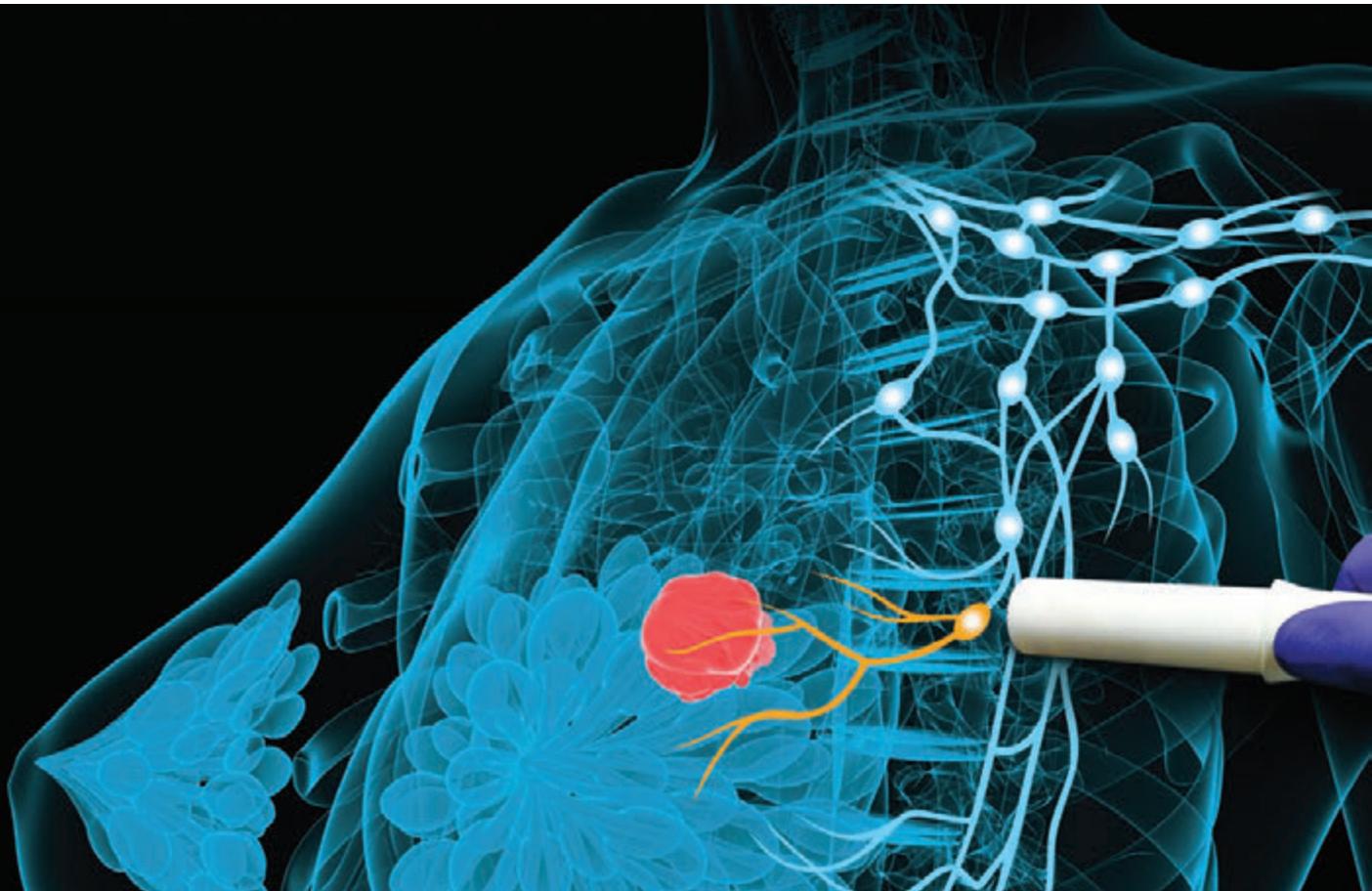
Mick Farrell

## Key Skills system for taught students

Students on taught courses can now plan and record their skills development with the help of an online Key Skills system which is accessible through PORTICO, UCL's online student information portal. The new system enables students to consider systematically their opportunities to develop skills and to become more articulate about these skills over time. A similar system is already available to postgraduates on research degrees through the graduate research student log. Dr Jenny Marie (UCL Centre for the Advancement of Learning & Teaching) explained: "The Key Skills system is a wonderful resource for students wanting to develop their skills. UCL has always provided plenty of opportunities for skills development, but now students have a means of really considering their development needs and which of the opportunities will be of most help to them."

## Provost's Teaching Awards

Eleven UCL staff were recognised for their outstanding contribution to excellence and innovation in teaching in this year's Provost's Teaching Awards. Now in their fourth year, the awards celebrate leadership in teaching and learning across UCL's eight faculties, and winners were nominated by their Dean or Head of Department. There were 26 submissions this year, 21 of which were individuals, plus five team nominations. Professor Michael Worton, Vice-Provost (Academic & International), said: "Teaching has always been a vital part of UCL's activity and of its profile and reputation. However, in today's complex globalised world, with all of the challenges facing us, teaching is going to be an even more important dimension of what we do. It is vital therefore that we not only maintain but enhance our reputation for excellence and innovation."



Firstly I have to thank my colleague and the former Vice-Provost, Professor Mike Spyer, who guided UCL Enterprise over the last few years prior to his retirement in May. Thanks to Mike we are in an excellent position to make a leading contribution to the UK economy through Enterprise and it is my job to build on that strong foundation.

We have a wide-range of enterprise activities and our overall aim is to support the UCL community in making contributions to the social and economic benefit of UCL and the UK. Research-intensive universities are a key part of a growth agenda and it is clear that pioneering research is the platform for sustaining a knowledge-based economy. In that context we have three key aims: supporting UCL entrepreneurs; working with external partners; and commercialising our assets.

Our Centre for Entrepreneurship, UCL Advances, has supported UCL's staff and students with events throughout 2010; more than 2000 participants attended training events and almost 200 projects were provided with some form of support.

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#### Tumour detection by Endomagetics

UCL Business, as well as continuing to generate profit through the successful commercialisation process, helps to generate many tens of millions of pounds in translational research income. UCL spin-out company Endomagetics was recently cited as one of the UK's most promising healthcare technology businesses for its pioneering approach to treatment of breast cancer.

I was also delighted to see initiatives designed to help promote collaborative working with industrial partners as a key part of UCL's contribution to improving the global competitiveness of UK companies. In particular, the UCL IMPACT studentship scheme, which began this year, has been designed to help stimulate the development of collaborative research projects for research students.



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

### Investment and new CEO for Endomagnetics

Endomagnetics Ltd, a business that began life as a research project at UCL, has raised £770,000 from a syndicate led by UCL Business plc, UCL's knowledge transfer and technology commercialisation company, and Sussex Place Ventures. The financing coincides with the appointment of Dr Eric Mayes as CEO of the company, and builds upon a previous seed round of investment together with support from the Technology Strategy Board. Endomagnetics Ltd is a medical devices company that was spun out from UCL to capitalise upon research work in the area of magnetic sensing led by Professor Quentin Pankhurst, Director of the Davy-Faraday Research Laboratory. Through the use of magnetic tracers and a highly sensitive magnetic sensing device, Endomagnetics is able to help breast cancer surgeons detect whether breast cancer has spread to other parts of the body. Globally this is vitally important, with around 1.38 million new cases of breast cancer being diagnosed each year, and the rate increasing by nearly 20,000 cases year on year.

### Kit 4 Troops website launched

A charitable website founded by two UCL postgraduate students was demonstrated and launched at UCL in August. Kit4Troops.org.uk was established by Steve McGregor and Inaam Tahir to provide a way of thanking individual soldiers by sending them practical gifts they request and messages of encouragement. The items requested range from gifts that soldiers can use in their downtime to those that remind them of home. In 2007, Steve was a Captain in the US 101st Airborne and deployed in Iraq, and it was this experience that led him to realise the need for such a concept. The idea was first tested during the 2010 London Entrepreneurs' Challenge, organised by UCL Advances, where the duo began to gain widespread support for the charity.

### Three hatchlings for UCL Advances

Alive and Giving, a fundraising and comparison website, The Sport Review, an independent sports news website, and Zooza, an innovative online sales and marketing platform, were the first companies to be based in the UCL Advances Student Business Hatchery. The facility provides a base for new student-led businesses when they first need it and to help prepare them for the outside world. Both Zooza and The Sport Review were recipients of a UCL Bright Ideas Award 2010, while Alive and Giving won the undergraduate and Provost's Prize categories in the 2009 London Entrepreneurs' Challenge and were also recipients of a UCL Bright Ideas Award 2009. In 2010 they were awarded an Innovation Central Bursary. In October, Alive and Giving celebrated their launch by holding a charity fundraising event, sponsored by UCL Advances.



UCL Advances

### Second drug development programme for Pentraxin Therapeutics

UCL spin-out company Pentraxin Therapeutics Ltd has licensed a second drug development programme to pharmaceutical giant GlaxoSmithKline (GSK). Pentraxin was established by Professor Mark Pepys, Director of the UCL Centre for Amyloidosis and Acute Phase Proteins, to hold all the intellectual property arising from his research. In this latest agreement, Pentraxin will collaborate with GSK to develop Professor Pepys' invention of novel small molecules that stabilise the blood protein transthyretin (TTR), a normal component of blood. As people age, or when there are mutations in the TTR gene, the protein can become unstable and develop into an abnormal form known as amyloid fibrils. These fibrils accumulate in the organs and tissues, damaging their structure and function, and causing TTR amyloidosis, a fatal and currently untreatable condition. One of the novel molecules created by the UCL team is mds84, which is bound irreversibly by TTR and prevents the protein from forming amyloid.



Mapping for Change

## Mapping for Change

In July, UCL launched Mapping for Change, a social enterprise that will support sustainable communities through online mapping and Geographical Information Systems (GIS). Mapping for Change is a partnership between UCL Civil, Environmental & Geomatic Engineering, and London 21 Sustainability Network, a charity that works across Greater London to help create a greener, healthier and more sustainable city. The organisation will specialise in providing a suite of innovative mapping tools that communities, voluntary sector organisations, local authorities and developers can use to communicate complicated information in a visual format that is affordable and easy to understand. The services can be applied across a range of sectors including school programmes, food growth, distribution, town planning and sustainable tourism.

There are a wide variety of potential uses, such as supporting funding applications or creating interactive maps that help engage communities as part of a consultation process. Dr Muki Haklay (UCL Civil, Environmental & Geomatic Engineering), and Louise Francis, Chief Executive of Mapping for Change, are running the programme. The partnership is one of the first recipients of a Higher Education Social Entrepreneurship Award – a programme of financial and other support provided by UnLtd, the foundation for social entrepreneurs, and the Higher Education Funding Council for England to help higher education institutions develop their expertise, skills, knowledge base and business support structures in social entrepreneurship and social enterprise activity.

## Higher education reaching out to London's businesses

The university's Centre for Entrepreneurship and Business Interaction, UCL Advances, is leading the Higher Education London Outreach Project (HELO), with support from the London Business School among others. HELO helps to bridge the gap between small and medium-sized businesses (SMEs) and Higher Education Institutions by transferring the expertise, research and knowledge possessed by UCL students, faculty and staff to London enterprises. Participating in a HELO project, students get first hand experience in working with a real life scenario and contribute to the success of an SME. They build their own networks and links as well as take advantage of training that HELO provides. HELO draws from the expertise of UCL and London Business School by creating teams of students they work with. An awards ceremony in November celebrated the work of students and staff who have participated. HELO is currently working with over 70 businesses in London and has completed over 30 projects, with a number of job placements resulting from the project.

## Impact Studentships launched

UCL is keen to encourage industrial collaboration through contracted research and collaborative studentships and is now considered an international hub for collaborative doctoral training. Building on these successes, in 2009 UCL developed the Impact Studentships, co-funded by businesses and UCL. Impact awards support collaborative PhD studentship projects with organisations such as charities, companies, government institutions and social enterprises, and during 2010 awarded 194 studentships.



### 'Ingredients for life' on Saturnian moon

A team from the Mullard Space Science Laboratory (MSSL) working on the Cassini-Huygens mission found negatively charged water ions in the ice plume of Enceladus, one of Saturn's 61 known moons. Their analysis of data gathered during the spacecraft's plume fly-throughs in 2008 provide

The icy surface of Enceladus Credit: NASA/JPL/Space Science Institute

evidence for the presence of liquid water. The spacecraft's plasma spectrometer, used to gather this data, also found other species of negatively charged ions including hydrocarbons.

UCL was established in 1826 in order to open up education in England for the first time to students of any race, class or religion. The idea was bold, radical, and responsive to the needs of the world; three qualities that we believe passionately in to this day.

We've always believed that excellence should go hand-in-hand with enriching society. Whether we're designing the iconic parks or buildings of tomorrow, or grappling with issues such as global health or climate change, the challenges of daily life inspire each generation of UCL students and academics.



## THE UCL SPIRIT

This year, the UCL Voluntary Services Unit has supported 43 student-led community projects, including baby first aid community training sessions, befriending schemes for children with special needs, activity sessions with dementia patients and sports, maths, science and language clubs in primary schools. UCL students volunteered 26,000 hours of their time, representing a major part of UCL's community engagement with London.

Universities thrive on the collective efforts of their scholars in tackling complex ideas that require breadth and range of expertise. But the work of unique thinkers is equally fundamental in the march of progress.

UCL individuals, both past and present, have made discoveries and inventions that have changed the world. Some UCL people are household names, while other, equally brilliant thinkers are known primarily within their field. There is inspiration for all of us among UCL's people.

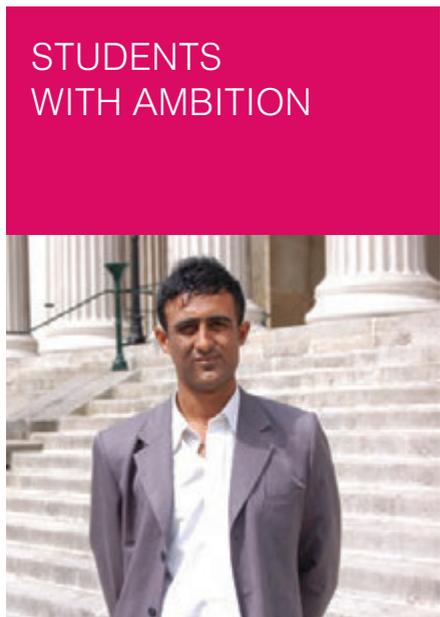


## INSPIRING MINDS

Eminent female UCL figures have featured in *Suffrage Science* – a collection of interviews and stories about the significant contributions that women have made to science over the past 100 years. The volume, published on the centenary of the first International Women's Day, includes interviews with Vivienne Parry, Vice-chair of UCL Council, Professor Sarah-Jayne Blakemore (UCL Institute of Cognitive Neuroscience) and Professor Mary Collins (UCL Infection & Immunity), Dean of UCL Life Sciences. It also features prominently Professor Uta Frith (UCL Institute of Cognitive Neuroscience), whose seminal work on autism provided inspiration for Professor Blakemore's scientific ambitions, and Professor Kathleen Lonsdale, UCL Chemistry (1947-1971), chemist and crystallographer.

Fierce intelligence, a desire to change the world, juggling a challenging study programme, volunteer work and London's exciting social life – UCL students have a zest for life.

Coming to UCL from nearly 140 countries around the world, they share common attributes of creativity and critical thinking. They are prepared to take their subject knowledge into the community, be it to the government or local schools, and enjoy the cultural and social diversity of UCL and London life. While entrepreneurship is a budding area among the student body, demonstrations of innovation and leadership occur on an everyday basis. Our students graduate with a wealth of experiences that make them true global citizens.



## STUDENTS WITH AMBITION

UCL student Zain Jaffer has been selected as one of the youngest of the future top 80 'world leaders' to attend the Graduate Studies Programme at Singularity University, a prestigious new initiative supported by NASA, Google and other leading Silicon Valley corporations, that aims to educate future leaders to solve global problems using technologies such as robotics, nanotech, biotech and artificial intelligence. A part-time student on the UCL MSc in Technology Entrepreneurship course, Zain also runs his own business. He hopes to use the programme to use emerging technologies to teach children around the world how to use a variety of software, with the ultimate aim of enabling them to generate their own income in the future.

With dedication and a creative approach, academic research can be used to tackle the world's most urgent problems – that's what we believe at UCL.

Our research approach is built on foundations of excellence in the fundamental disciplines, encouraging UCL people to work together and transform society with their ideas and innovations. We have developed a series of Grand Challenges, designed to activate a response from across UCL to major problems of our times, including global health and sustainable cities. From legal reform to carbon capture, UCL ideas are changing everyday life.

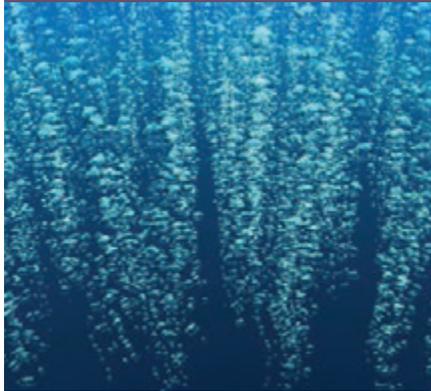
At UCL, we're committed to the principle of merging and working across traditional subject boundaries.

Our interdisciplinary approach is so important to us because it enables ideas from one subject area to be seeded into another, resulting in fruitful new ideas – and even new disciplines. English and Laws were once bundles of ideas from different subjects rather than the established fields that they are today: UCL was the first to systematically teach both. These days, we have many leading centres where groundbreaking interdisciplinary work takes place, and our students and staff are taking daring new approaches to find the answers to their questions about the world.

Forging effective partnerships is integral to UCL's belief in maximising the social impact of its intellectual resources.

As a research institution, our primary expertise is on developing ideas and knowledge, so by working with institutions with a practical focus to their activities, such as hospitals, schools, business or government, we can help these ideas turn into real-world solutions. Getting a breakthrough cancer drug to the patient waiting in the clinic, or conveying the magic of a Greek drama to a group of local schoolchildren – these are just two examples of how UCL expertise is delivered most effectively through strong external relationships.

## RESEARCH WITH IMPACT



UCL mechanical engineers are working on award-winning research that is transforming medical imaging and drug delivery. They are using microbubbles containing tiny amounts of gas and magnetic nanoparticles to move the bubbles harmlessly round the body to a targeted area, e.g. a tumour, where the bubbles can be dissolved by ultrasound, delivering a drug accurately and specifically where it's needed. The bubbles also work using the same principal for imaging, and can make ultrasound scans clearer by controlling the density of specific parts of the body. The team is currently concentrating on increasing the accuracy of control of the microbubbles, which have the potential for many medical applications.

## CROSSING SUBJECT BOUNDARIES



Access to clean water is a basic right denied to millions of people living in cities across the world. In 2000 the United Nations included targets to reduce by half the proportion of people without access to safe water and sanitation in the Millennium Development Goals (MDGs) and in 2005 it launched the Decade of Water for Life. To mark the half-way point, the UCL Urban Water Poverty project convened two events through the Grand Challenge of Sustainable Cities: a public panel discussion and an expert symposium. UCL researchers from a broad range of disciplines as well as external organisations such as WaterAid came together to test how well UCL research is informing progress towards the MDGs and to better define what is meant by the concept of 'urban water poverty' in light of rapid global urbanisation.

## PROGRESS THROUGH PARTNERSHIP



A delegation of leading space scientists from Russia visited UCL in July to cement research collaboration and funding between the UK and Russia. The International Science and Technology Centre, Moscow and the British Embassy in Moscow supported the three-day visit, which resulted in the signing of a Memorandum of Understanding, and the Russian Space Agency, Roscosmos, also forged closer ties with UCL. David Willetts, Minister of State for Universities and Science, gave the keynote speech, and the agenda included space medicine, satellite communication technologies, optics and instrument systems, monitoring and natural disasters, robotics and cybernetics and microgravitation.



## Highlights 2010



### Two dinosaur species discovered

PhD student Michael Pittman (UCL Earth Sciences) discovered two new species of dinosaur during field work in Inner Mongolia. The first, named *Linheraptor Exquisitius*, is in excellent condition and will help scientists work out the appearance of other closely related species. The second is a parrot-sized dinosaur named *Linhenykus Monodactylus*

Credit: Reconstruction of *Linhenykus Monodactylus* by Julius T Csotonyi

after the nearby city of Linhe, and is the first to be discovered with only one finger, as opposed to the usual three. Both dinosaurs belong to the carnivorous theropoda family of dinosaurs, which gave rise to *Tyrannosaurus*, *Velociraptor* and modern birds.

## Awards, Medals and Prizes

**Alcon Research Institute**  
Alcon Research Institute Prize:  
Professor Graham Holder  
(UCL Institute of Ophthalmology)

**American Pain Society**  
Jeffrey Lawson Award for Advocacy  
in Children's Pain Relief:  
Professor Maria Fitzgerald  
(UCL Neuroscience, Physiology  
& Pharmacology)

**British Academy**  
Wiley Prize for Psychology:  
Dr Essi Viding (UCL Clinical,  
Educational & Health Psychology)

**British Pharmacological Society**  
Gaddum Memorial Award:  
Professor Geoff Burnstock  
(UCL Division of Biosciences)

**Centre for Economic Studies**  
CES Prize in Economics:  
Professor Richard Blundell  
(UCL Economics)

**Czech Academy of Sciences**  
Gregor Mendal Medal:  
Professor Robin Weiss  
(UCL Virology)

**European Neuroendocrine  
Tumor Society**  
Best Scientific Research Prize:  
Dr Chrissie Thirlwell  
(UCL Cancer Institute)

**Best Clinical Research Prize:**  
Dr Mohid Kahn  
(UCL Cancer Institute)

**European Society for  
Medical Oncology**  
Lifetime Achievement Award:  
Professor Hilary Calvert  
(UCL Cancer Institute)

**Experimental Psychology Society**  
Mid-Career Award:  
Professor David Shanks  
(UCL Cognitive, Perceptual  
& Brain Sciences)

**Fermilab**  
Alvin Tollestrup Award:  
Dr Justin Evans  
(UCL Physics & Astronomy)

**HealthWatch**  
Annual Award:  
Professor David Colquhoun  
(UCL Biosciences)

**Royal Anthropological Institute**  
Rivers Memorial Medal:  
Professor Stephen Shennan  
(UCL Institute of Archaeology)

**Institute of Materials, Minerals  
and Mining**  
Beilby Medal & Prize:  
Dr Suwan Jayasinghe  
(UCL Mechanical Engineering)

**Institute of Physics**  
Best Astroparticle Physics Thesis  
in the UK:  
Dr Matthew Kauer (UCL Physics  
& Astronomy)

**Business & Innovation Medal:**  
Professor Sir Michael Pepper  
(UCL Electrical & Electronic  
Engineering and the London  
Centre for Nanotechnology)

**Franklin Medal & Prize:**  
Professor Tom Duke (UCL Physics  
& Astronomy and the London  
Centre for Nanotechnology)

**Holweck Medal & Prize:**  
Professor Steven Bramwell  
(UCL Physics & Astronomy)

**Thomson Medal & Prize:**  
Professor Gaetana Laricchia  
(UCL Physics & Astronomy)

**Institution of Chemical Engineers**  
Frank Lees Medal:  
Professor Haroun Mahgerfete  
(UCL Chemical Engineering)

**International Academy  
of Astronautics**  
Laurel for Team Achievement:  
Cluster and Double Star teams:  
Professor Andrew Fazakerley (UCL  
Space & Climate Physics) led the  
instrument teams on both missions

**International Conference  
on Software Engineering**  
Special Award:  
Professor Anthony Finkelstein  
(UCL Computer Sciences)

**International Institute  
for Conservation of Historic  
and Artistic Works**  
Forbes Prize:  
Professor David Lowenthal  
(UCL Geography)

**International Society for Magnetic  
Resonance in Medicine**  
Sir Peter Mansfield Prize:  
Dr David Carmichael (UCL Institute  
of Neurology)

**Islamic Republic of Iran**  
World Book Prize:  
Amélie Kuhrt (UCL History) for  
*The Persian Empire: A Corpus  
of Sources from the  
Achaemenid Period.*

**Leverhulme Trust**  
Philip Leverhulme Prize:  
Dr Sylvie Delacroix (UCL Laws)  
Dr Angus Gowland (UCL History)  
Dr Ralph Wilde (UCL Laws)

**Lupus Foundation of America**  
Evelyn V Hess Research Award:  
Professor David Isenberg  
(UCL Inflammation)

**Medical Research Society**  
Young Investigator Award:  
Dr Daniel Gale (UCL Division  
of Medicine)

**Nicholas Kurti European  
Science Prize**  
Dr Christian Ruegg  
(UCL Physics & Astronomy)

**Polish Academy of Sciences**  
Nicolaus Copernicus Gold Medal:  
Professor Kenneth Phillips  
(UCL Mullard Space Science  
Laboratory)

**Regional Science Association**  
William Alonso Prize:  
Professor Michael Batty  
(UCL Centre for Advanced Spatial  
Analysis)

**Royal Academy of Engineering**  
Royal Academy of Engineering/  
Exxon Mobil Award for Excellence  
in Teaching: Dr Suzanne Farid  
(UCL Biochemical Engineering)

**Royal Astronomical Society**  
2010 Fowler Prize:  
Dr Barbara Ercolano (UCL Physics  
& Astronomy)

**Royal College of Obstetricians  
& Gynaecologists**  
Eardley Holland Medal:  
Professor Charles Rodeck  
(UCL Maternal & Fetal Medicine)

**Royal Geographical Society**  
Busk Medal:  
Professor Ann Varley  
(UCL Geography)

**Cuthbert Peek Award:**  
Dr Jerome Lewis  
(UCL Anthropology)

**Victoria Medal:**  
Professor Rick Battarbee FRS  
(UCL Geography)

**Royal Institute of British Architects**  
Award for Outstanding PhD Thesis:  
Victoria Perry (UCL Bartlett School  
of Architecture)

**Royal Photographic Society**  
Davies Medal: Dr Mark Lythgoe  
(UCL Centre for Advanced  
Biomedical Imaging)

**Royal Society**  
Prize for Science Books:  
Dr Nick Lane (UCL Genetics,  
Evolution & Environment) for  
*Life Ascending*

**Royal Society of Chemistry**  
Rita and John Cornforth Award:  
UCL Bioconversion Chemistry  
Engineering Interface Programme

**Royal Society of Literature**  
Ondaatje Prize: Mr Ian Thomson  
(UCL Royal Literary Fund Fellow)  
for *The Dead Yard*

**UK Society for Biomaterials**  
Biocompatibles Endowed Award:  
Professor Jonathan Knowles  
(UCL Eastman Dental Institute)

**Worshipful Company of  
Armourers & Brasiers**  
2010 Materials Science Venture  
Prize: Professor Mohan Edirisinghe  
and Professor Eleanor Stride  
(UCL Mechanical Engineering)

# Awards & Appointments

## Fellowships

### American Academy of Arts & Sciences

Professor Christopher Peacocke (UCL Philosophy)

### British Academy Fellows:

Professor Juliet Mitchell (UCL Clinical, Educational & Health Psychology)

Professor Henry Woudhuysen (UCL English Language & Literature)

**Corresponding Fellow:** Professor Guy Laroque (UCL Economics)

### Geological Society of America

Professor Kevin Pickering (UCL Earth Sciences)

### Hungarian Academy of Science

Professor Imre Barany (UCL Mathematics)

### Institute of Electrical & Electronic Engineers

Professor Polina Bayvel (UCL Electronic & Electrical Engineering)

Professor Arokia Nathan (London Centre for Nanotechnology)

### International Association for Cryptologic Research

Professor Yvo Desmedt (UCL Computer Science)

### Royal Society Fellows

Professor Gabriel Aeppli (UCL Physics & Astronomy)

Professor Ray Dolan (UCL Imaging Neuroscience)

### UCL Fellows 2010

Professor John Goddard (UCL Geography, 1965) Emeritus Professor of Regional Development Studies, Newcastle University

Dr John van Griethuysen (UCL Mechanical Engineering, 1975), Chief Engineer for Submarines, Ministry of Defence

Dr Noreena Hertz (UCL Philosophy, 1987), Centre for International Business & Management Distinguished Fellow, University of Cambridge

Ms Mary Reilly (UCL History, 1974) Partner and Head of Charities, Deloitte LLP

Professor Timothy Shallice (UCL Psychology, PhD) Sector Coordinator, Sector of Cognitive Neuroscience, International School for Advanced Studies, and former Director of the UCL Institute for Cognitive Neuroscience

Mr John Walton (UCL Economics, 1968) Founder and former Managing Director and Chairman, Asset Value Investments

### UCL Honorary Fellows 2010

Professor Muhammad Akhtar: Distinguished National Professor, Higher Education Commission, Islamabad; Director General, School of Biological Sciences, University of the Punjab

Mr Neal Ascherson: Editor, *Public Archaeology*

Sheikh Mohamed Bin Issa Al Jaber: Founder, Chairman and CEO, MBI International

Professor John Birks: Professor of Quantitative Ecology and Palaeoecology, University of Bergen

Professor Roger Ekins: Emeritus Professor of Biophysics, UCL

Professor Saku Tsuneta: Director, Hinode Science Centre, National Astronomical Observatory of Japan

## Honorary Doctorates, Fellowships, Lectureships and Senior Investigatorships



Ms Mary Reilly (UCL History, 1974)



Professor Chris Rapley (UCL Earth Sciences)

### UCL Honorary Degrees

Professor Lorna Casselton (DSc): Foreign Secretary of the Royal Society and Emeritus Professor of Fungal Genetics University of Oxford

Professor Peter Higgs (DSc): British theoretical physicist

Professor Jonathan Israel (DLit): Writer on Dutch history, the Age of Enlightenment and European Jewry

Professor Charles K Kao (DSc): the 2009 Nobel Laureate in Physics

Professor Timothy Killeen (DSc): Assistant Director for the Geosciences at the US National Science Foundation

Neil MacGregor (DLit): Director of the British Museum

The Rt. Hon. the Lord Neuberger of Abbotsbury (LLD): Master of the Rolls

The Baroness Professor Onora O'Neill of Bengarve (DLit): Philosopher and crossbench member of the House of Lords

### British Society Of Audiology Thomas Simm Littler Lectureship:

Professor Stuart Rosen (UCL Speech, Hearing & Phonetic Sciences)

### King's College London

#### Honorary Doctorate:

Professor Sir Alan Wilson (UCL Centre for Advanced Spatial Analysis)

### University of East Anglia

#### Honorary Doctorate:

Professor Chris Rapley (UCL Earth Sciences)

## Presidencies, Directorships, Chairs and Editorships

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### Association of European Research Libraries

**President:** Dr Paul Ayris,  
(UCL Library Services)

### Association of University

**Administrators:** Chair Mr Chris  
Hallas (UCL Registry)

### Bingham Centre for the Rule of Law

**Founder Director:** Professor  
Jeffrey Jowell (UCL Laws)

### British Medical Association

**President:** Professor Sir Michael  
Marmot (UCL Epidemiology  
& Public Health)

### British Psychological Society

**President:** Professor Paul Burgess  
(UCL Cognitive Neuroscience)

### International Centre for Mathematical Sciences

**Scientific Director:**  
Professor Keith Ball  
(UCL Mathematics)

### NHS London

**Acting Chairman:**  
Professor Mike Spyer  
(UCL Biosciences)

### Royal Astronomical Society Vice-President & Chair of

**International Committee:**  
Professor Ofer Lahav  
(UCL Physics & Astronomy)

### Royal Economics Society

**President:** Professor Richard  
Blundell (UCL Economics)

### Royal Statistical Society

**President:** Professor Valerie  
Isham (UCL Statistical Science)

## Memberships

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### Academia Europaea

Professor Hugh Clout  
(UCL Geography)

Professor Chris Rapley  
(UCL Earth Sciences)

### Academia Nacional de Medicina (Brazil)

**Foreign honorary member:**  
Professor Andrew Lees  
(UCL Institute of Neurology)

### Academy of Medical Sciences

Professor Martin Birchall  
(UCL Ear Institute)

Professor Anthony Costello  
(UCL Centre for International  
Health & Development)

Professor Nick Fox  
(UCL Neurology)

Professor Graham Hart  
(UCL Infection & Population  
Health)

Professor Stephen Humphries  
(UCL Medicine)

Professor David Miller  
(UCL Institute of Neurology)

Professor Geraint Rees  
(UCL Institute of Cognitive  
Neuroscience)

Professor William Richardson  
(UCL Wolfson Institute for  
Biomedical Research)

### Academy of Social Sciences

**Academicians:** Professor Adrian  
Furnham (UCL Clinical,  
Educational & Health Psychology)

Professor Susan Michie  
(UCL Clinical, Educational  
& Health Psychology)

Professor Graham Scambler  
(UCL Infection & Population  
Health)

### American Academy of Arts & Sciences

**Honorary Member:**  
Professor Dame Linda Partridge  
(UCL Genetics, Evolution &  
Environment)

### American Philosophical Society

**International Member:**  
Professor Robin Clark  
(UCL Chemistry)

### Chartered Institute of Library and Information Professionals

**Councillor:** Andy Dawson  
(UCL Information Studies)

### Middle Temple Under-Treasurer:

Professor Dawn Oliver (UCL Laws)

### Royal Society

**Council member:**  
Professor Sir Alan Wilson  
(UCL Centre for Advanced  
Spatial Analysis)

### Wellcome Trust

**Board of Governors:**  
Professor Anne Johnson  
(UCL Institute for GlobalHealth)



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Professor Dawn Oliver  
(UCL Laws)



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Professor Graham Scambler  
(UCL Infection & Population Health)



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Professor Geraint Rees  
(UCL Institute of Cognitive  
Neuroscience)

# Awards & Appointments

## Royal, National and International Honours

### New Year's Honours

**Knight Bachelor:** Professor Salvador Moncada (Wolfson Institute of Biomedical Research at UCL) for services to science

### Commander of the Order of the British Empire (CBE):

Professor Janet Darbyshire (Medical Research Council Clinical Trials Unit at UCL) for services to clinical science

Professor Carol Dezateux (UCL Institute of Child Health) for services to science

### Order of the Netherlands

**Officier in de Orde van Oranje-Nassau:** Professor Jane Fenoulhet (UCL Dutch) for outstanding contribution to knowledge and understanding of Dutch language and literature and to society



Professor Salvador Moncada (Wolfson Institute of Biomedical Research at UCL)

### Queen's Birthday Honours

**Commander of the Order of the British Empire (CBE):** Dr Jean Venables FRS (Advisory Board Member, UCL Grand Challenge of Sustainable Cities; Programme Board Member of the UCL-led programme UrbanBuzz) for services to civil engineering

### Ordinary Commander of the Civil Division (CBE):

Professor Linda Luxon (UCL Ear Institute and Professor of Audiological Medicine, University College London Hospitals NHS Foundation Trust) for services to medicine



Professor Jane Fenoulhet (UCL Dutch)

## UCL Awards

### UCL Awards for Enterprise

**UCL Bright Ideas Awards:** ZooZa, AAAS Steering, Three O Nine Custom Clothing, 36Zero and The Sport Review

**UCL Business Award:** Professor Quentin Pankhurst (UCL Physics & Astronomy) for his endeavours in the establishment of Endomagnetics Limited

**UCL Consultants Award:** Professor Tadj Oreszczyn (UCL Bartlett School of Graduate Studies)

**UCL Enterprise Partner of the Year Award:** Arup

**UCL Knowledge Transfer Partnership Award:** UCL Bartlett School of Graduate Studies and SpacelabUK

**Lifetime Achievement Award:** Sir Derek Roberts

### London Entrepreneurs' Challenge Awards

**Winner:** 36Zero

**Runner-up:** (undergraduate) Gourmandie

**Runner-Up:** (postgraduate or staff) H2NRG

**Provost's Prize:** H2NRG

**Innovation Central Bursaries:** Kit 4 Troops, Alive & Giving, AAAS Steering and Tigersense

**UCL Provost's Spirit of Enterprise Award:** Professor David Shima (UCL Institute of Ophthalmology)

**Social Enterprise Project of the Year Award:** The UCL Refugee Project: Noor Alyassin (UCL Biochemical Engineering) and Yasmin Grewal (UCL Geography)

### Provost's Teaching Awards

**Beginning of Career:** Dr Daniel Richardson (UCL Psychology & Language Sciences)

Dr Sonia Arbaci Sallazzaro, (UCL Bartlett School of Planning)



Dr Rekha Bajoria (UCL Obstetrics & Gynaecology)

### Experienced Staff:

Dr Rekha Bajoria and Dr Ratna Chatterjee – joint award (UCL Obstetrics & Gynaecology)

Dr Helen Chatterjee (UCL Biological Sciences and UCL Museums & Collections)

Dr Sue Hamilton (UCL Institute of Archaeology)

Dr John Mitchell (UCL Electronic & Electrical Engineering)

Dr Mike Porter, (UCL Chemistry)

Dr Ariane Smart, (UCL Language Centre)

Professor Roger Wotton (UCL Genetics, Evolution & Environment)

### Supporting Learning:

Professor Andrew Eder (UCL Eastman Dental Institute)

### UCL Mathematical & Physical Sciences Faculty

**Teaching Award:** Professor Raman Prinja (UCL Physics & Astronomy)

### UCL Centre for Neuroimaging Techniques

**Young UCL Investigator in Neuroimaging of the Year,** sponsored by Brain Products: David Carmichael

## UCL Appointments



Professor Anthony Finkelstein  
(UCL Computer Science)



Professor Alan Smith  
(UCL Space & Climate Physics)



Professor Alwyn Seeds  
(UCL Electronic & Electrical Engineering)

### UCL Division of Psychology & Language Sciences

Acting Associate Dean: Professor Gabriella Vigliocco

### UCL Engineering Sciences

Dean: Professor Anthony Finkelstein (UCL Computer Science)

### UCL Enterprise

Vice Provost for Enterprise: Professor Steve Caddick (UCL Chemistry)

### UCL Human Resources

Director: Mr Nigel Waugh

### Department Heads and Institute Directors

UCL Division of Biosciences: Professor John Carroll

### UCL Cancer Institute:

Professor Chris Boshoff

### UCL Division of Infection & Immunity:

Professor Arne Akbar

### UCL Division of

### Population Health:

Professor Graham Hart

### UCL Earth Sciences:

Professor Phil Meredith

### UCL Electronic & Electrical Engineering:

Professor Alwyn Seeds

### UCL English Language & Literature:

Professor John Mullan

### UCL Geography:

Professor Jon French

### UCL Mathematics:

Professor Robb McDonald

### UCL School of Slavonic & East European Studies:

Dr Robin Aizlewood

### UCL Science & Technology Studies:

Dr Joe Cain

### UCL Security & Crime Science:

Professor Richard Wortley

### UCL Slade School of Fine Art:

Dr Susan Collins

### UCL Space & Climate Physics:

Professor Alan Smith

### UCL Statistical Science:

Professor Valerie Isham

### UCL Surgical & Interventional Science:

Professor Marc Winslett

### UCLH/UCL NIHR Comprehensive Biomedical Research Centre:

Professor Deenan Pillay

## Research Fellowships

### Australian Research Council

#### Future Fellowship:

Dr Quentin Stevens (UCL Bartlett School of Planning)

### Engineering & Physical Sciences Research Council

#### Leadership Fellowship:

Professor Sofia Olhede (UCL Statistical Science)

### Lister Institute Research

#### Prize Fellowship:

Dr Josef Kittler (UCL Neuroscience, Physiology & Pharmacology)

### Marie Curie Intra-European Fellowship:

Dr Claire Colomb (UCL Bartlett School of Planning)

### Newton International Fellowships:

Dr Alexandra Alvergne

Dr Javier Carrasco

Dr Marianna D'Arco

Dr Neel Dhruv

Dr Pedro Halla

Dr Martha Nari Havenith

Dr Simona Irrera

Dr Koon Fung Lam

Dr Yixian Lin

Dr Christopher Olivola

Dr Simone Severini

Dr Deborah Villarroel-Lamb

Dr Xiaobo Zhai

### Wellcome Trust Career

#### Development Fellowship:

Dr Paul Bays (UCL Institute of Neurology)

Dr Fiona McNab (UCL Institute of Neurology)

### Worshipful Company of Scientific Instrument Makers

#### Beloe Fellowship:

Dimitris Sarantaridis (UCL Chemistry)



Situated at the heart of Bloomsbury, with its buildings and institutes spreading throughout London, UCL is intimately linked to the capital, drawing inspiration and support from London's endeavours, values and people, and contributing in turn to London life. We are proud to be one of London's leading universities, and we believe passionately in contributing to the city's development.

UCL's impact on London encompasses many realms, including health, community, education, environment, business activities and even entertainment. We are London's Beacon for Public Engagement, building relationships between universities and the wider public with a programme of events and activities, and using our expertise for benefit in the community. We are the sponsors of an Academy School in Camden, which will open in 2012. Our staff provide training and consultancy to London businesses, helping to strengthen our local economy, and the research of our academics helps to inform policy formation in local and central government.

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#### UCL student volunteers

UCL students, from engineers to artists and historians to medics, contribute to the vibrancy and development of London as a world-leading city. The role they play – through volunteering and community projects and taking research out to the people across the city – enhances the lives of Londoners and beyond. With such close ties to the city they study in, it isn't surprising that over half of UCL's undergraduate students remain in London after finishing their degree.

A world-leading biomedical hub, UCL has formed a partnership with four leading London teaching hospitals in order to facilitate the transition of basic scientific research into leading edge treatments for patients, and to train the healthcare professionals of the future. UCL has also joined together with the Medical Research Council, Wellcome Trust, and Cancer Research UK to establish the UK Centre for Medical Research and Innovation at St Pancras. Set on a site between the British Library and St Pancras Eurostar terminal, this will be one of the world's top medical research centres, bringing together 1,500 scientists and support staff in the heart of the capital.

### UCL researchers reveal 'polycentric' London

Professor Michael Batty (UCL Centre for Advanced Spatial Analysis) and Dr Soong Kang (UCL Management Science and Innovation) applied statistical physics techniques to millions of Oyster Card journeys to discover how, why and where Londoners travel. They used Transport for London's database of 11 million records taken over one week from the Oyster Card electronic ticketing system. Such detailed data is fast heralding a new age for the study and planning of cities, as it gives researchers a greater insight into the complex web of relationships and interactions that constitute urban life. The patterns revealed by the study show how complex city centres actually are – London contained no single centre, but instead has around 10 'polycentres' that interlink in complex patterns. These patterns could help predict and mitigate the impact of major changes to infrastructure such as the construction of Crossrail, a project that involves building a series of new railway connections under central London.

### Outreach programme brings relief to 7/7 bombing survivors

A mental health outreach programme set up after the 2005 London bombings has successfully identified and treated hundreds of survivors. After the 7/7 bombings in 2005 a group of clinical psychologists targeted nearly a thousand survivors of the attacks by painstakingly compiling hospital treatment records, police witness files and referrals from GPs. The need for this new method of reaching potential patients was evident after results showed that only 4% of patients contacted by the programme had been referred for treatment by their GPs – the traditional pathway to mental health care. Overall, more than a third of people contacted needed treatment for post-traumatic stress disorder. The results of the study, published in *Psychological Medicine*, suggest that a similar programme needs

to be included in the standard planning for the aftermath of a terrorist attack. Lead author Professor Chris Brewin (UCL Clinical, Educational & Health Psychology) explained: "If this programme hadn't existed then there would be hundreds of people still suffering from post-traumatic stress or other psychological problems. This intervention is really a new way of identifying traumatised people."

### UCL-led project lets Genie out of Bottle

A unique UCL-led project to inform young people about climate change facilitated the world premier of a short film in May. *The Genie in the Bottle* is an animated version of an illustrated children's story by Professor Hugh Montgomery (UCL Clinical Physiology), who is also an award-winning children's author. The film tells the story of an old man explaining the fate of a once beautiful planet to his grandchild. Professor Montgomery and the film's director, Dr Jack Kreindler, run Project Genie – a groundbreaking initiative for primary school teachers and their pupils. Registered schools receive materials that use *The Genie in the Bottle* story to explain the science of climate change. In addition to the film and the story, teachers receive a textbook, lesson plans, and an electronic device to measure and encourage energy saving. The initiative is underpinned by science from the UCL Environment Institute and the Met Office, and has so far been piloted in over 140 UK schools and reached more than 34,000 children.

### Student volunteers celebrated

UCL held an awards ceremony to celebrate the community work of its 1,000-strong army of student volunteers. In the past year volunteers have worked with children, improved the environment, helped disabled people, refugees and asylum seekers, and much more, with the support of the UCL Union Volunteering Services Unit (VSU). Professor Michael Worton, UCL Vice-Provost (International



UCL Bright Club

Image: Dr Hilary Jackson

& Academic), said: "This year, UCL students contributed nearly 26,000 hours, i.e. more than 12 working years to the Borough of Camden, a truly significant achievement. What I find most inspiring is that every year, there are more and more students who choose to volunteer in the community. This is something of which UCL is enormously proud." James Hodgson, UCL Union Student Activities Officer, added: "It is often easy to forget that the volunteers are also full-time students at a demanding and world-leading university, and I hope they are extremely proud of themselves for everything they have achieved. I know that people whose lives they have benefited in their voluntary work will echo my sincere appreciation for all their efforts."

## Focus on: Public Engagement

As one of the UK's six Beacons for Public Engagement, UCL offers funding to its staff to connect with people outside the university in innovative ways. UCL also supports an extensive outreach programme of public lectures, exhibitions, workshops and events, as well as being home to museums and collections, and the Bloomsbury Theatre. These many and varied projects and facilities aim to nurture a society in which the next generation want to take part in research, teaching and learning.

### Bringing the public more of the Bright stuff

UCL Bright Club – the thinking person's variety night – continues to spark the public imagination with a series of events and podcasts. Bright Club takes place in a comedy club in Clerkenwell, where, every month, a collection of professional comedians, musicians, UCL staff and students take to the stage to educate and entertain on a given theme. In October, the club sold out UCL's 500-seat Bloomsbury Theatre and have received critical acclaim in both national and international press. Dr Steve Cross, Bright Club creator and Head of UCL Public Engagement said: "I still can't quite believe that Bright Club works. Every month people who don't work or study at a university will come and see researchers who have never tried comedy before be funny. And they go away having learned a few things, and having changed their ideas of what universities are. It's basically a group of very brave researchers and academics, stepping well outside their comfort zones to share their work. Through jokes."



Relocating the Grant Museum

### UCL Museums undergo restoration

For the first time in over 30 years, the UCL Petrie Museum has staged a major redisplay of its collection of 80,000 Egyptian and Sudanese artefacts. Highlighted in this new display are some of the museum's many 'firsts': a dress from 5,000 BC; the earliest example of metal from Egypt and the oldest will on papyrus paper. The experience of visiting the Petrie Museum is now further enhanced by a new multi-purpose space where visitors can test cutting-edge technological tools developed at the museum. Visitors will be able to use the museum's 3D image kiosks to 'virtually' pick up and rotate priceless artefacts to see them from different angles and perspectives. The new space will also host the museum's dynamic programme of lectures, object-handling sessions, temporary exhibitions, and music and film events. Concurrently, the UCL Grant Museum of Zoology is undergoing a move to new premises in the Rockefeller Building. The move will provide the museum with more space for its innovative events programme and teaching activities, and much improved display areas, allowing more of the specimens to be on show. The museum will reopen in March 2011. These projects are part of UCL Museums & Collections' new initiative to reveal the highly innovative, experimental and interdisciplinary work.



Biblia Latina, parchment, 14th century  
UCL Library and Special Collections

### The curious history of *Ink*

An interdisciplinary public exhibition exploring the rich and curious history of ink in all its forms opened at UCL in November. *Ink* provided the setting for a series of interactions around the history and substance of ink. It drew from the one million objects housed within UCL's Museums & Collections and also included contemporary art works, film, text and other media from across the breadth and depth of UCL's departments. Designed, built and transformed into an intimate and highly distinctive space by architects Mobile Studio, who also teach at the UCL Bartlett School of Architecture, this was the first time UCL's North Lodge has been used for a public exhibition.

### Architecture students open young people's eyes to good design

UCL's cloisters hosted 33 students from a wide range of London secondary schools in October for a three-day workshop in planning and urban design. The event was part of an educational programme organised by Open-City, whose mission is to make architecture accessible through creative and innovative programmes. UCL offered an inspirational location for the workshop, which gave the young people a chance to see architecturally significant buildings and a bustling university

campus to encourage their future aspirations. The students explored the Bloomsbury area, took part in a creative design challenge and made a short film featuring their ideas and suggestions to show to their local councillors and decision-makers. This year UCL and Open-City collaborated on an educational programme for primary schools, which brings together architecture students, Open-City's educators and renowned London-based architectural practices to inspire and unlock architecture for 1,000 pupils every year. Pupils are taken for a 'behind the scenes' exploration of exemplary architecture as a catalyst to producing their own responses to a design brief, and attend an in-school workshop with a partner student, architect and Open-City educator. A number of Bartlett students took up the opportunity to be partnered with classes across London over the past academic year, to develop their skills for working with the next generation, who will ultimately inherit the effects of their design decisions.

### Record numbers choose brain food for lunch

UCL's Lunch Hour Lecture series has captured the imagination of more people than ever before. The free lectures, which have been running since the 1940s and are rated as one of the 10 best ways to spend your lunch break in London by *The Guardian*, feature some of the university's most high-profile academics. Their provocative subject matter included a defence of the right to think obscene thoughts, ruminations on the dark side of the universe, a debate about the appearance of aliens, a focus on World Aids Day and a celebration of Mahatma Gandhi's birth. The lectures reached an even larger audience as thousands who couldn't make it in person watched live over the internet.

### Exploring *Your Universe*

UCL hosted a free festival of astronomy for schools, families and the general public as part of National Science and Engineering Week in March. *Your Universe* showed how UCL scientists are contributing to the advancement of our knowledge, from discovering extra-solar planets to unravelling the mystery of dark energy. Highlights of the three-day festival included: the Magic Planet, a spherical projection able to reproduce any planet or star with all its motions, colours and landscapes, building the Universe from the big bang to the present day along a 14-metre long timeline, using UCL's telescopes to look at the sun and the planets Venus and Mars (weather permitting), and a series of lectures about astronomy, astrophysics or cosmology. The event proved to be extremely popular and is being held in March 2011.



The 2010 year has seen a significant improvement in the overall financial position of the university with the retained surplus rising from £5m to £30m.

Whilst 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 to not only grow our income but also to control costs in order to move UCL towards a more financially sustainable position in the long term.

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Architect's impression of the UKCMRI

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 the university will need to consider over the coming months 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

## UKCMRI progress

Progress continues on the UK Centre for Medical Research and Innovation (UKCMRI). UCL is one of the four founding partners for the venture, along with the Medical Research Council (MRC), Cancer Research UK and the Wellcome Trust. The Government's decision to invest £220 million in the venture was announced in the Comprehensive Spending Review in October 2010 and the Joint Venture Agreement between the founding partners was signed in November 2010. In June the consortium released its vision for the institute alongside designs for the building, which will be based at St Pancras and Somers Town in the London Borough of Camden. The vision has been drafted by a panel of leading international scientists who came together to conceive of an institute capable of tackling the underlying causes of our most challenging health problems. The building is designed to foster innovation by allowing collaboration between different academic disciplines.

## HEFCE funding rise

UCL received an overall 1.73% increase in funding for 2010–2011 from the Higher Education Funding Council for England (HEFCE) compared with last year, in allocations for universities announced in March. The recurrent funding allocation across the university sector for 2010–2011 has increased by 0.4%. UCL's research funding has increased by 4.28%, compared with a sector average increase of 2.05%. UCL's teaching funding has decreased by 1.58%, compared with a sector average decrease of 0.14%. In terms of grant funding awarded, UCL has retained its position among UK universities with regards to total research funds (3rd), total grant (5th) and total teaching funds (11th). Professor David Price, UCL Vice-Provost (Research) said: "We are aware that universities cannot be completely protected from the impact

of the economic downturn. However, we welcome sustained funding for research intensive universities like UCL which recognises the significant contributions we make to the UK economy."

## Staff

This year UCL has undertaken a root and branch review of its equality strategies and action plans. There are now revised disability and race equality schemes in place, both with targeted action plans to measure progress. These initiatives were informed by findings from the 2009 staff survey and were developed in consultation with staff and interest groups. As part of a continual review of the range of benefits available to staff, UCL introduced a 'Pensions Exchange' scheme in May 2010 for all members of its two biggest pension schemes. As a result, staff take-home pay has increased and UCL has benefited from savings in employers' national insurance contributions. The savings are being used to enhance the working environment for staff and to help meet the rising cost of pension provision.

## Students

Student numbers for 2009–10 reached a total of 22,628, an increase of 1,502 or 7.1% on 2008–09. The majority of the increase was in postgraduate student numbers, with the largest increase in international taught postgraduate students, which were up 384 or 26% on the previous year. In order to try and increase UK/EU numbers further, during the year UCL has awarded 194 Impact studentships which provide 50% of the funding required for fees and stipend for the full three or four years of the programme. Early feedback on the scheme is encouraging and it is expected that matched funding will be secured to allow around 150 of the awards to be taken up during 2010–11. As well as enabling UCL to expand its



Illustration from the Bloomsbury Masterplan  
Lifschutz Davidson Sandilands

research student population to match those of key competitors, the Impact scheme has fostered links with industrial and other organisations providing match funding for the awards.

## Estates

The year saw the start of a comprehensive review of the Estate Strategy with the long-term objectives of ensuring the estate is fit for purpose, efficiently and effectively supports the academic mission, is effectively utilised and environmentally sustainable. The process commenced with a utilisation study of the Bloomsbury campus where pressures on space are intense. The survey took place through the second term and a full report was issued after Easter. The survey information has provided a robust platform for the second stage of the strategic review, the development of a masterplan for the Bloomsbury campus. This work commenced in June 2010 with the appointment of the masterplan team led by the architectural practice Lifschutz Davidson Sandilands. The brief for the masterplan includes: space utilisation, including efficient use of space, functionality and location of uses; movement & circulation; environmental sustainability; public engagement and accessibility; identity, heritage and

integrity with the locality; and the quality of the student experience. The development of a strategic masterplan is a substantial undertaking, which will establish a long-term and flexible framework for the estate for the next ten years and beyond. The study is expected to be completed by Easter 2011 and will form the centrepiece of a new estate strategy planned to be published during the second half of 2011.

During the year a strategic priority has been to focus on improving the environmental sustainability of the estate. A series of new initiatives has been implemented, notably joining the EcoCampus environmental accreditation scheme for universities; significant acceleration of progress in implementing the carbon management plan supported by the HEFCE-Salix Revolving Green Fund; commitment to the 10:10 campaign to reduce carbon emissions by up to 10% in 2010; and the start of the development of a strategy to increase the capacity of local combined heat and power generation. An indicator of progress has been UCL's improved position in the People and Planet university green league table, rising 50 places between 2009 and 2010.

The year saw continuing public realm improvement with the completion of the Bloomsbury Campus external illuminated way finding signage, the refurbishment of the Front Lodges, and improvements to Malet Place. Other capital improvements completed include: the refurbishment of 20–21 Gordon Square; the restoration of the front façade of 16–26 Gordon Square; completion of the second phase of the learning laboratory on the ground floor of the DMS Watson building; a new Radiochemistry suite in the Kathleen Lonsdale Building and the expansion of the CPD clinical skills facilities on the fourth floor of 123 Grays Inn Road for the Eastman Dental Institute.

New projects under way include refurbishment of the Darwin building with improved and consolidated facilities for the biosciences together with a full refurbishment of the Darwin lecture theatre. The final phase of the Foster Court refurbishment and completion of public realm improvements to Malet Place including a new courtyard outside the Medwar Building are also well advanced. Following the acquisition of Central House, Upper Woburn Place last year, extensive modernisation and refurbishment works have commenced with a mix of support and academic activities due to move into the building over coming months. At the Royal Free Hampstead campus significant works have progressed to improve research facilities. This year has also seen the start of a substantial programme of works to improve many centrally booked teaching rooms including a major upgrade of the Gustave Tuck Lecture Theatre.

### Fundraising and Communications

The Development & Alumni Relations Office has continued to coordinate fundraising activity for UCL priorities, whilst staff in academic departments have also been successful in securing gifts for their research and other activities. There has been particular success in raising gifts to support the renovation of the Lewis's Building into new student union accommodation, and for scholarships and bursaries for undergraduate students.

The Campaign for UCL has now raised over £195 million towards the target of £300 million by 2013. The Annual Fund has seen a second year of growth in unrestricted funding and generated over £640,000 for UCL's greatest needs and priorities and departmental discretionary funds. A newly established gift club acknowledging UCL's most generous donors, called the Provost's Circle, has also seen gifts in excess of £1000 increase by 76% on last year. A focus on



The Lewis's Building

new graduates to help encourage a culture of giving has paid dividends with the class of 2008 alumni making up 13% of all new donors recruited last year.

UCLTV is now an official channel on YouTube EDU, the section of the video-sharing site that showcases some of the world's best higher education digital content. It has had more than 100,000 views since UCL Communications began creating and uploading videos last summer, and the monthly viewing figures puts UCL on a par with our world-leading peers. The UCL channel offers a wide variety of short films, including mini-lectures by academics and content created by students.

## Reports And Financial Statements For The Year Ended 31 July 2010

FINANCIAL HIGHLIGHTS 08/09

CONSOLIDATED INCOME & EXPENDITURE ACCOUNT	2010 £m	2009 £m
Funding Council grants	201.0	209.9
Academic fees and support grants	150.5	126.7
Research grants and contracts	275.1	254.3
Other operating income	133.8	124.0
Endowment income and interest receivable	5.0	8.2
<b>Total income</b>	<b>765.4</b>	<b>723.1</b>
Share of income from joint ventures	(3.0)	(3.7)
<b>NET INCOME</b>	<b>762.4</b>	<b>719.4</b>
<b>TOTAL EXPENDITURE</b>	<b>732.4</b>	<b>707.5</b>
Share of operating loss in joint ventures and associates	(0.3)	(0.7)
Profit on disposal of subsidiary	-	-
Profit/(loss) on disposal of tangible fixed assets	-	(6.1)
Profit on disposal of fixed asset investments	0.7	-
Taxation	-	-
Minority interest	(0.9)	-
Transfer to accumulated income within specific endowments	0.1	0.1
<b>SURPLUS FOR THE YEAR</b>	<b>29.6</b>	<b>5.1</b>
<b>CONSOLIDATED BALANCE SHEET</b>		
Fixed assets	605.0	599.4
Endowment asset investments	67.9	57.2
Net current assets	55.5	30.9
<b>Total assets less current liabilities</b>	<b>728.4</b>	<b>687.5</b>
Non-current liabilities and provisions	(78.7)	(80.1)
Provision for liabilities and charges	(1.3)	(1.3)
Pension assets/(liabilities)	(8.1)	(8.1)
<b>TOTAL NET ASSETS</b>	<b>640.3</b>	<b>598.0</b>
Represented by:		
Deferred grants	348.2	349.5
Endowments	67.9	57.2
Reserves	224.3	192.3
Minority interest	(0.1)	(1.0)

To read the 2009/2010 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)

# Professorial Appointments

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**Professor Charles Mitchell**  
Chair of Laws

**UCL Bartlett School of Graduate Studies**  
Chair of Facility Management Innovation:  
Professor Michael Pitt

**UCL Cancer Biology**  
Chair of Stem Cell Biology:  
Professor Tariq Enver

**UCL Institute of Child Health**  
Chair of Paediatric Oncology:  
Professor Kathy Pritchard-Jones

**True Colours**  
Chair of Paediatric Palliative Care:  
Professor Myra Bluebond-Langner

**UCL Computer Science**  
Chair of Computer Science:  
Professor Mark Harman

**UCL Laws**  
Chair of Judicial Studies:  
Professor Cheryl Thomas

Chair of Laws:  
Professor Charles Mitchell

Chair of Laws:  
Dr Paul Mitchell

**UCL Mathematics**  
Chair of Applied Mathematics:  
Professor Valery Smyshlaev

**UCL Physics & Astronomy**  
Chair of Astrophysics:  
Professor Bruce Swinyard

**UCL Political Science**  
Chair of Government & Public Policy:  
Dr Tony Wright

Chair of Politics, Public Policy & International Relations:  
Professor Albert Weale

**UCL Security & Crime Science**  
Chair of Crime Science:  
Professor Richard Wortley

**UCL Statistical Science**  
Chair of Statistics:  
Professor Mark Girolami



**Dr Eli Keshavarz Moore**  
Professor of Bioprocess Science & Enterprise

**UCL Institute of Archaeology**  
Professor of Mediterranean Archaeology:  
Dr Cyprian Broodbank

Professor of Prehistory:  
Dr Susan Hamilton

Professor of Archaeological & Museum Conservation:  
Ms Elizabeth Pye

Professor of Medieval Archaeology:  
Dr Andrew Reynolds

**UCL Anthropology**  
Professor of Anthropology:  
Dr Sara Randall

**UCL Biochemical Engineering**  
Professor of Bioprocess Science & Enterprise:  
Dr Eli Keshavarz Moore

**UCL Cell & Developmental Biology**  
Professor of Developmental & Cellular Neurobiology:  
Dr Roberto Mayor

Professor of Chronobiology:  
Dr David Whitmore

**UCL Chemistry**  
Professor of Chemical Biology:  
Dr Helen Hailes



**Dr Philippe Marliere**  
Professor of French  
& European Politics

**UCL Institute of Child Health**  
Professor of Transplantation  
Immunology:  
Dr Persis Amrolia

Professor of Ophthalmic  
Epidemiology:  
Dr Jugnoo Rahi

Professor of Paediatric  
Rheumatology:  
Dr Lucy Wedderburn

Professor of Anthropology  
& Paediatric Nutrition:  
Dr Jonathan Wells

**UCL Civil, Environmental  
& Geomatic Engineering**  
Professor of Nonlinear  
Dynamics:  
Dr Gert Van Der Heijden

**UCL Clinical Neuroscience**  
Professor of Clinical  
Neurology:  
Dr Lionel Ginsberg

**UCL Institute of Cognitive  
Neuroscience**  
Professor of Cognitive  
Neuroscience:  
Dr Sarah-Jayne Blakemore

**UCL Cognitive, Perceptual  
& Brain Sciences**  
Professor of Psychology:  
Dr David Green



**Dr Simon Gayther**  
Professor of Cancer Genetics

**UCL Computer Science**  
Professor of Computational  
Statistics & Machine Learning:  
Dr Massi Pontil

**UCL Earth Sciences**  
Professor of  
Micropalaeontology:  
Dr Paul Bown

**UCL Eastman Dental Institute**  
Clinical Research Professor  
in Orthodontics:  
Dr Susan Cunningham

**UCL Electronic & Electrical  
Engineering**  
Professor of Analogue  
& Biomedical Electronics:  
Dr Andreas Demosthenous

**UCL English Language  
& Literature**  
Professor of English:  
Dr Helen Hackett

**UCL French**  
Professor of French  
& European Politics:  
Dr Philippe Marliere

**UCL Genetics, Evolution  
& Environment**  
Professor of Evolutionary  
Biology:  
Dr Kevin Fowler



**Dr Jane Holder**  
Professor of Environmental Law

**UCL Gynaecological Cancer**  
Professor of Cancer Genetics:  
Dr Simon Gayther

**UCL Haematology**  
Professor of Haematology:  
Dr Atul Mehta

**UCL Centre for Health  
Informatics & Multiprofessional  
Education**  
Professor of Medical Statistics  
& Epidemiology:  
Miss Sally Stenning

**UCL History of Art**  
Professor of History of  
Art & Architecture:  
Dr Frederic Schwartz

**UCL Infection & Population  
Health**  
Professor of Epidemiology  
& Medical Statistics:  
Dr Amanda Mcroft

**UCL Information Studies**  
Professor of Information:  
Dr Ian Rowlands

**UCL Laws**  
Professor of Environmental  
Law:  
Dr Jane Holder

**UCL Mathematics**  
Professor of Mathematics:  
Dr Rod Halburd

**UCL Metabolism &  
Experimental Therapeutics**  
Professor of Experimental  
Inflammation & Pharmacology:  
Dr Derek Gilroy

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Dr Henry Houlden

Professor of Clinical  
Neurology:  
Dr Mary Reilly

**UCL Neuroscience, Physiology  
& Pharmacology**  
Professor of Systems  
Pharmacology:  
Dr Andrew Ramage

**UCL Oncology**  
Professor of Medical  
Oncology:  
Dr Siow Ming Lee

**UCL Institute of Ophthalmology**  
Professor of Visual  
Psychophysics:  
Dr Steven Dakin

**UCL Physics & Astronomy**  
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Dr Anthony Harker

Professor of Physics:  
Dr Robert Thorne

Professor of Physics:  
Dr Matthew Wing

**UCL Primary Care  
& Population Health**  
Professor of Epidemiology:  
Dr Goya Wannamethee

**UCL Scandinavian Studies**  
Professor of Swedish  
& Gender Studies:  
Dr Helena Forsas-Scott

**UCL Space & Climate Physics**  
Professor of Space Plasma  
Physics:  
Dr Andrew Fazakerley

**UCL Urology**  
Professor of Urology:  
Mr Mark Emberton

# People



Faculty	Academic and Research Staff (as of October 2010)	Undergraduate Students (2009/10)	Graduate Students (2009/10)
UCL Arts & Humanities	184	2104	921
UCL Biomedical Sciences	2017	1916	2239
UCL Built Environment	156	674	998
UCL Engineering Sciences	401	1613	1395
UCL Laws	62	565	500
UCL Life Sciences	591	1728	1162
UCL Mathematical & Physical Sciences	472	1960	592
UCL Social & Historical Sciences	290	2472	1789
<b>Total</b>	<b>4173</b>	<b>13032</b>	<b>9596</b>

## Members of UCL Council

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

### Secretary to Council

Mr Tim Perry

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Sir Stephen Wall (Chair)

### Vice-Chair of Council

Ms Vivienne Parry

### Treasurer

Ms Anne Bulford

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Professor Malcolm Grant

## Vice-Provosts

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Professor Sir John Tooke

### Operations

Mr Rex Knight

### Research

Professor David Price

## Pro-Provosts and Regional Special Advisers

### Pro-Provost for Africa

Professor Volker Sommer

### Pro-Provost for China,

Hong Kong & Macau

Professor Z Xiao Guo

### Pro-Provost for East & South East Asia

Professor Derek A Tocher

### Pro-Provost for Europe

Professor Mike Wilson

### Pro-Provost for Canada,

Mexico & USA

Professor C.J Lim

### Pro-Provost for South Asia

& the Middle East

Professor Vince Emery

### Special Adviser on Kazakhstan

Professor Stefaan Simons

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### Arts and Humanities

Professor Henry Woudhuysen

### Built Environment

Professor Alan Penn

### Biomedical Sciences

Professor Ian Jacobs

### Engineering Sciences

Professor Anthony Finkelstein

### Laws

Professor Dame Hazel Genn

### Life Sciences

Professor Mary Collins

### Mathematical and Physical Sciences

Professor Richard Catlow

### Social & Historical Sciences

Professor Stephen Smith

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Mr Christopher Hallas

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Professor Michael Ewing

### Dean of Students (Welfare)

Dr Ruth Siddall

### Director of Academic Services

Mr Tim R Perry

### Director of Administration,

UCL Medical School

Mr Andrew J Whalley

### Acting Head of Centre for the

Advancement of Learning

& Teaching

Ms Susan Bryant

### Director of Communications

Mr Mark Sudbury

### Director of Development

& Alumni Relations

Mrs Lori Manders

### Director of Estates & Facilities

Mr J Andrew Grainger

### Director of Finance

Mrs Alison C Woodhams

### Director of Human Resources

Mr Nigel Waugh

### Director of Information Services

Dr Mike Cope

### Director of Information Systems

Mr Gavin I McLachlan

### Director of Management Systems

Dr Will Miller

### Director of Media Services

Mr Jeremy C Speller

### Director of Library Services

Dr Paul Ayris

### Director of Museums, Collections

and Public Engagement

Ms Sally MacDonald

### Director of Research Planning

Dr Mary E Phillips

### Head of Graduate School

Professor I David L Bogle



# UCL

## Review 2010

