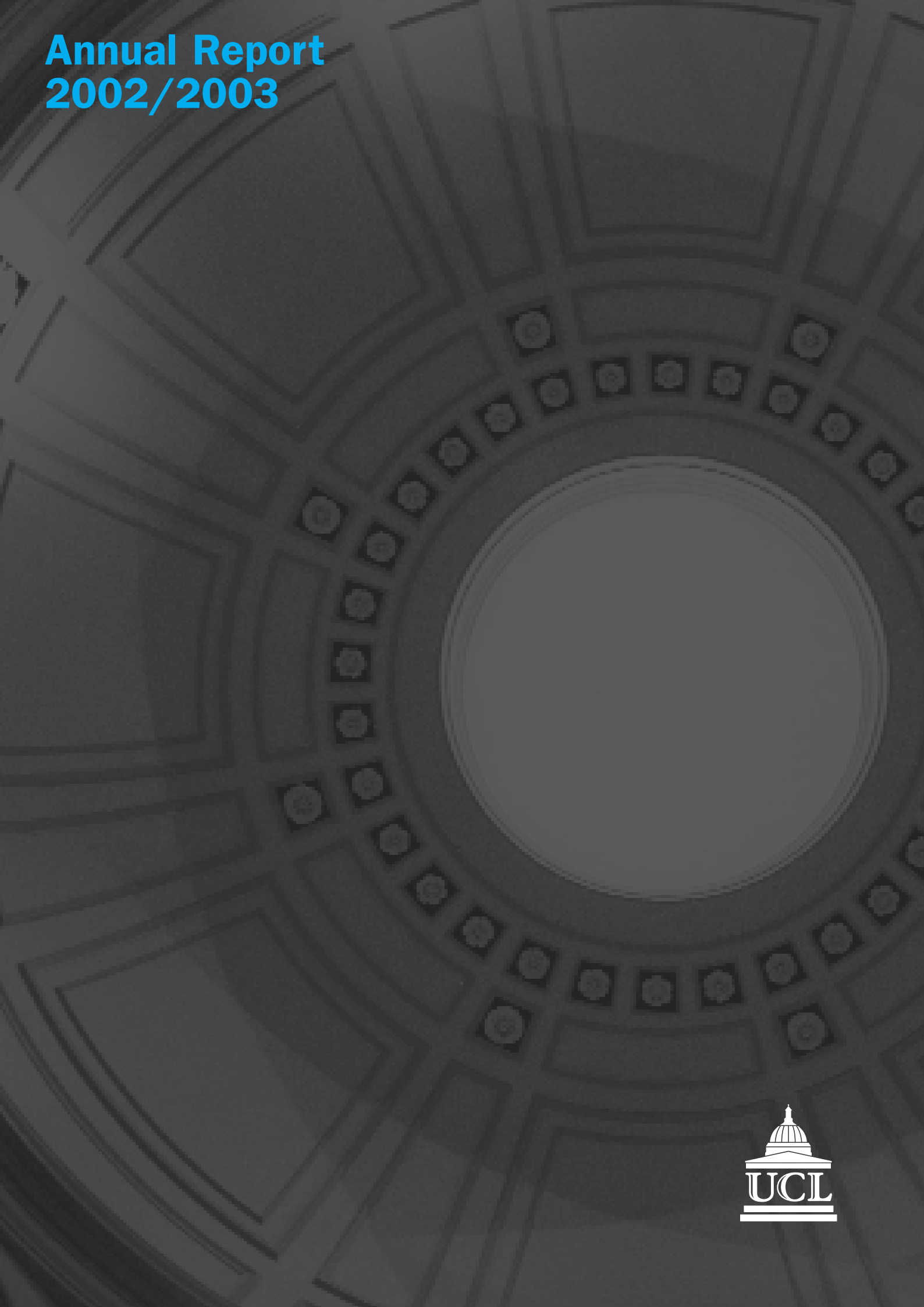
Annual Report 2002/2003



The academic year 2002/2003 was marked by continued excellence in research, teaching and outreach, in service of humanity's intellectual, social and technological needs.

Provost & President's Statement

UCL is committed to using its excellence in research and teaching to enrich society's intellectual, cultural, scientific, economic, environmental and medical spheres.

See page 2

Research & Teaching

UCL continued to challenge the boundaries of knowledge through its programmes of research, while ensuring that the most promising students could benefit from its intense research-led teaching environment.

See page 4

Outreach

In accordance with its founding principles, UCL continued to share the highest quality research and teaching with those who could most benefit from it, regardless of their background or circumstances.

See page 8

Achievements

UCL's academics conducted pioneering work at the forefront of their disciplines during this year.

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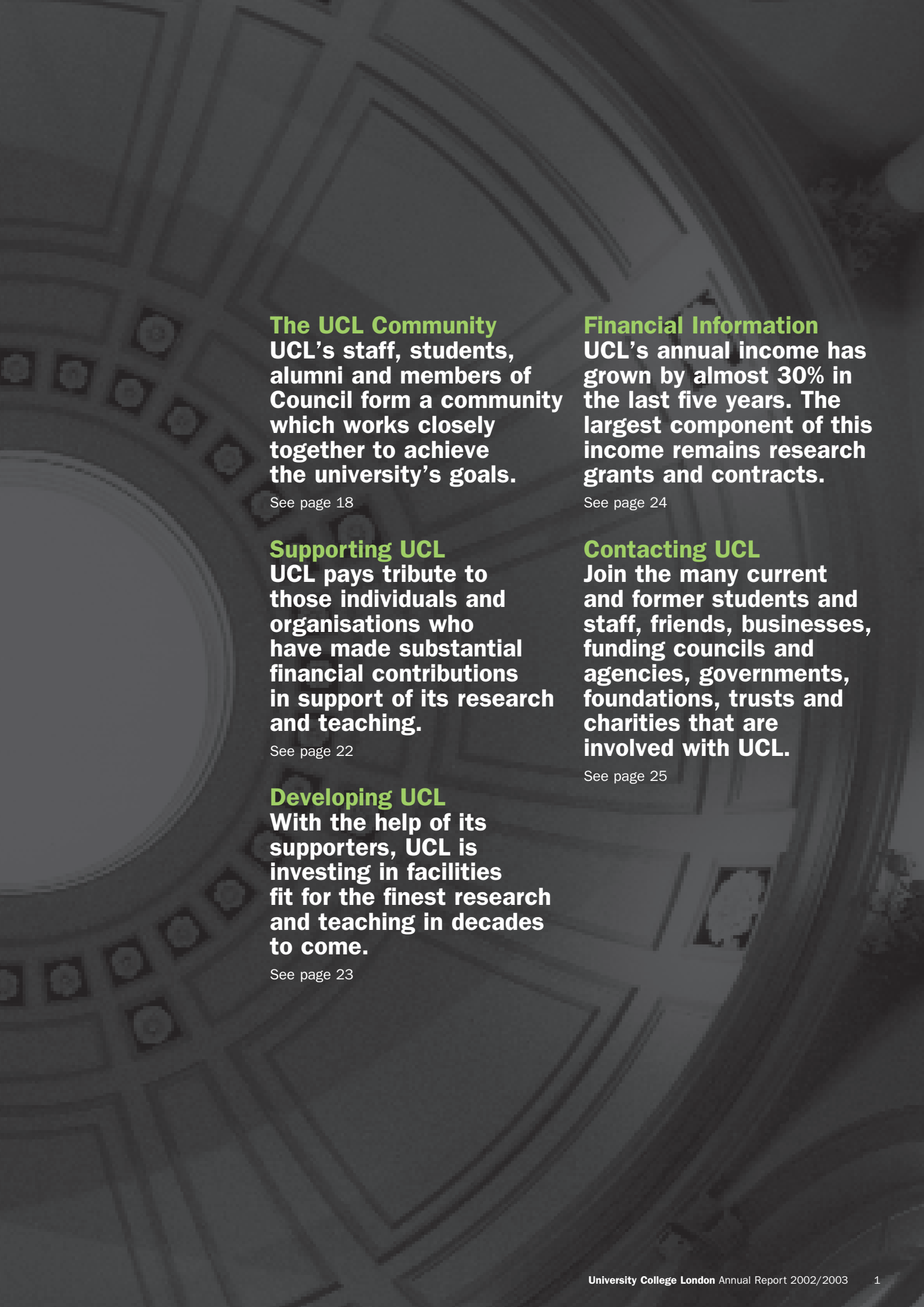

The UCL Community

UCL's staff, students, alumni and members of Council form a community which works closely together to achieve the university's goals.

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Supporting UCL

UCL pays tribute to those individuals and organisations who have made substantial financial contributions in support of its research and teaching.

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Developing UCL

With the help of its supporters, UCL is investing in facilities fit for the finest research and teaching in decades to come.

See page 23

Financial Information

UCL's annual income has grown by almost 30% in the last five years. The largest component of this income remains research grants and contracts.

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Contacting UCL

Join the many current and former students and staff, friends, businesses, funding councils and agencies, governments, foundations, trusts and charities that are involved with UCL.

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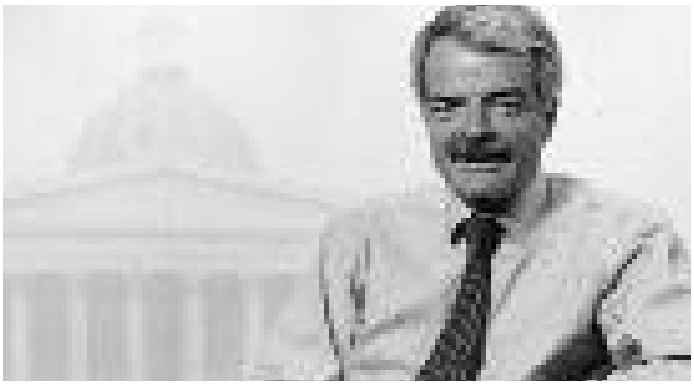
Provost & President's Statement

UCL is committed to using its excellence in research and teaching to enrich society's intellectual, cultural, scientific, economic, environmental and medical spheres.

UCL's commitment to excellence and innovation is central to this vision. It intends to be:

- **a world leader in teaching, scholarship and research across the sciences and arts, serving local, national and international needs;**
- **at the forefront in tackling humanity's environmental, healthcare and communication challenges;**
- **an employer of high calibre staff, whose diversity and creativity it celebrates;**
- **true to its founders' pioneering vision by providing educational opportunities of the highest quality to all capable of benefiting, regardless of background.**

In pursuit of these objectives UCL will continue to build on partnerships with scholars around the world; with industry and the professions; with local and national governments; with other national and international academic centres of excellence (including museums, galleries, libraries and archives); and with its network of former students.



Professor Malcolm Grant
Provost & President of UCL

Since I took up the post of Provost & President of UCL in August 2003, I have been reacquainting myself with a university that has been transformed since I was last here, 12 years ago, as Professor of Law.

Our university's growth is the most striking factor. The number of students has doubled in that time and now approaches 19,000. The mergers between UCL and seven other London educational institutions have greatly increased the size of our estates and our research income. This expansion has further diversified our research and teaching, and created new opportunities for collaborative and interdisciplinary activity.

This diversity fuels a creative environment. A key challenge is to draw together all our varied activities under the umbrella of a single, coherent and unified university.

UCL's reputation, too, is a key issue. Quality does not necessarily speak for itself: we need to clarify our identity and excellence in the minds of our potential participants and partners, from the schoolyard to industry and the City.

Much has changed, but I have been struck, too, by the qualities that have remained constant at UCL: its community's commitment to excellence, to access and equality of opportunity, to activity across a wide range of subject areas and, indeed, to the development of new disciplines.

Our London location is another strength. It provides not only cultural richness but opportunities to interact with and contribute to the thinking of key people in government and business. However, it presents challenges: the costs of maintenance of estates and living in London are high. We must find ways to ensure that we keep our facilities at a high quality and that financial considerations do not deter the best staff and students from joining our community and fulfilling their promise.

Our research and teaching excellence continues to attract considerable financial support, resulting in UCL's largest-ever building and refurbishment programme, which is developing state-of-the-art facilities for innovation and discovery. These will further enhance our ability to tackle humanity's most pressing problems. However, most of that support comes in the form of allocations for particular buildings and the great majority of it goes to science. We must strive to ensure that the arts, humanities and social sciences can also thrive, for they are essential to our vision of a complete university.

I am particularly proud of the sense of purpose, energy and enthusiasm evident in our community. Despite the real and serious challenges facing the university, these qualities give me great confidence in the future of UCL.

Professor Malcolm Grant
Provost & President of UCL

1 January 2004

Research & Teaching UCL continued to challenge the boundaries of knowledge through its programmes of research, while ensuring that the most promising students could benefit from its intense research-led teaching environment.

UCL's 5, 5* and double 5* departments

Anatomy & Developmental Biology
Anthropology
Institute of Archaeology
Biochemical Engineering
Biochemistry & Molecular Biology
Biology
Chemical Engineering
Chemistry
Institute of Child Health
Civil & Environmental Engineering
Clinical Neurosciences
Computer Science
Dutch
Earth Sciences
Eastman Dental Institute
Economics
Electronic & Electrical Engineering
English Language & Literature
French
Geography
German
Greek & Latin
Haematology
Histopathology
History
History of Art
Human Communication Science
Immunology & Molecular Pathology
Italian
Institute of Laryngology & Otology with the Ferens
Laws
Mathematics
Mechanical Engineering
Medical Microbiology
Medical Physics & Bioengineering
Medicine
Institute of Neurology
Institute of Nuclear Medicine
Obstetrics & Gynaecology
Oncology
Institute of Ophthalmology
Institute of Orthopaedics & Musculoskeletal Science
Paediatrics & Child Health
Pharmacology
Philosophy
Phonetics & Linguistics
Physics & Astronomy
Psychology
Scandinavian Studies
Science & Technology Studies
Sexually Transmitted Diseases
Slade School of Fine Art
School of Slavonic & East European Studies
Space & Climate Physics
Statistical Science
Surgery
Institute of Urology & Nephrology
Virology
Reta Lila Weston Institute of Neurological Studies
Wolfson Institute for Biomedical Research

Investing in research
For the second time running, UCL was allocated more funding through the Government's Science Research Investment Fund (SRIF) than any other university. UCL's allocation of £63.9 million in 2003 was based on the excellence and volume of its research across all disciplines.

It was the latest in a series of major national funding initiatives which have confirmed the quality and scale of UCL's research. These initiatives are enabling UCL to improve its research infrastructure and develop new capabilities in emerging disciplines and interdisciplinary collaboration.

Through a combination of its own resources and funding from the two SRIF schemes and the previous Joint Infrastructure Fund scheme, UCL is currently spending in excess of £250 million on a capital programme supporting health, social and technological research. This programme includes the Centre for Auditory Research, the Centre for Molecular & Cellular Neuroscience, the Centre for Micro Biochemical Engineering and the London Centre for Nanotechnology, a joint venture with Imperial College London.

The Wolfson Foundation made a pledge of £1.25 million towards the creation of UCL's Wolfson Centre for Medical Physics & Bioengineering. The centre will be an integral part of the reformulated Faculty of Engineering Sciences. The new facility will form part of a new tower being erected alongside the existing Engineering Building. This major development will enhance the opportunities for interdisciplinary research, such as the development of new technologies for the detection of cancers, and implants that can help to return vital functions to people with spinal cord injuries. The faculty was renamed Engineering Sciences – and the departments of Computer Science and Medical Physics & Bioengineering joined it – as a reflection of its interdisciplinary and problem-solving ethos, typified by the new centre.

Right Professor Andrew Forge (Centre for Auditory Research)

Middle Professor Crispian Scully, Dean of the Eastman Dental Institute

Far right Professor Leslie Aiello, Head of the UCL Graduate School

Other confirmations of UCL's excellence include its success in the Arts & Humanities Research Board Awards. UCL was awarded more than £650,000 for ten projects, ranging from *Cataloguing the Papers of Jeremy Bentham* to *Philosophical Foundations of Public Policy: Rethinking Cost-Benefit Analysis* and *Reassessing Ancient Egyptian Crops, Crop Husbandry and the Agrarian Landscape*.

Research excellence
Recent major awards reflect the formal assessment of UCL's research standing, which took place most recently in the Government's 2001 Research Assessment Exercise (RAE). Top ratings of 5 and 5* were achieved by 60 UCL departments. Seven of these have been re-classified by the Higher Education Funding Council this year as double 5* – departments which received the 5* rating both in 2001 and in the previous RAE in 1996. UCL's 60 top-rated departments included more than 1,500 full-time equivalent academic staff entered as research-active.

UCL's Eastman Dental Institute received the *Queen's Anniversary Prize for Higher & Further Education*, as did the Centre for Process Systems Engineering, a joint venture between the chemical engineering and electrical engineering departments at UCL and Imperial College London. Recipients were presented with the prize medal by Her Majesty The Queen and the Duke of Edinburgh at Buckingham Palace. This was the first time a dental school had been recognised in the awards, which are open to universities and colleges across the country. Awarded biennially since 1994, the prizes acknowledge the exceptional contribution made by institutions to the intellectual, economic, cultural and social fabric of the nation. UCL's previous prizewinners were the Medical School (1994) and the Institute of Child Health (2000).

Research ethics
Continuing the drive to promote research excellence and good practice, the Committee for the Ethics of Non-NHS Human Research was established by the UCL Graduate School. The committee was established to: meet the requirements of research funders; contribute towards research excellence at UCL; deal with all non-NHS human research applications; review proposals for research on human subjects or tissues to be conducted on UCL premises or by UCL staff, or by students under the supervision of staff; and provide guidance to ensure that research is conducted safely, with considered consent and respect for autonomy and privacy of participants. Sir John Birch, a member of UCL Council, chairs the committee, which consists of five lay members, who are mostly former UCL students representing a spectrum of experience, culture and age and five UCL academic staff covering broad areas of expertise.

Research & Teaching

Top Dr Derek Tocher (Chemistry) co-organised the *Intermediate Certificate Course for Science & Engineering*

Middle Ms Katie Jamieson (Geography) completed the *Undergraduate Teaching Scheme*

Bottom Ms Zuzana Burikova (Anthropology) and Mr Lorenzo Calvelli (History) are Eurodoctorate students

New programmes of study
Continuing its tradition of providing high-quality teaching at the forefront of a wide range of emerging disciplines, UCL introduced 29 new study programmes. Developed in response to society's changing needs, these programmes included the *International MSc in Primary Health Care*, the *MSc in European Public Policy*, the *BSc in Mathematics with Biology*, the *LLB with Matrise in English & French*, the *MSc in Freshwater & Coastal Sciences* and the *Certificate in Crime Prevention*.

The new *University Preparatory Certificate for Science & Engineering* (UPCSE) accepted 37 applications from overseas students. Based in the UCL Language Centre, the programme is designed for students from countries with 12-year educational systems, who would not otherwise be qualified to apply for undergraduate degrees at leading UK universities. The programme's students have considerable interaction with UCL science and engineering departments, including the use of laboratories. UPCSE replaced the *Intermediate Certificate Course for Science & Engineering* (ICCSE), run jointly by UCL and the School of Oriental & African Studies. Of the 31 students in the 2002 ICCSE cohort, 17 subsequently registered at UCL for a wide variety of degree programmes.

The *Undergraduate Teaching Scheme*, coordinated by the Institute of Education, was completed by 27 UCL students. Open to second- and third-year students, the scheme motivates those interested in a career in teaching. The course explores key issues related to teaching, such as classroom management, and gives students the chance to assist teachers, observe lessons and try out teaching skills. Students receive a bursary and 15% credit towards Qualified Teacher Status. They take part alongside their degree studies, spending the equivalent of ten days of placement in a secondary school. The scheme encourages students at London's leading institutions to consider the profession.

International opportunities
The number of UCL students studying overseas and the number of departments offering study-abroad placements continued to grow. New study-abroad programmes were established in the departments of Greek & Latin, Civil & Environmental Engineering, Computer Science and Electronic & Electrical Engineering, and the School of Slavonic & East European Studies.

A bursary scheme supported by the Study Abroad Office and the UCL Friends' Trust was established to provide an additional source of financial support for UCL students who wish to undertake a study-abroad placement. Study Abroad Bursaries were awarded to 45 students in the scheme's first year.

New student-exchange agreements were established with the University of Western Australia, the California Institute of Technology (CalTech), the University of Hong Kong and the National University of Singapore.

UCL adopted the European Credit Transfer System as the basic credit mechanism for undergraduate degree programmes. Used widely throughout the European Union and beyond, the system makes UCL degrees more transparent, while increasing its graduates' European educational and employment opportunities.

Professor Wendy Davies, UCL's Pro-Provost for Europe, was the university's lead representative on Bologna Process issues. The process aims to introduce common standards in European higher education and the qualifications it offers, to promote cooperation among European universities and their international competitiveness.

The first fellows participating in the Eurodoctorate programme *Building on the Past* were welcomed to UCL. The programme is targeted at PhD students whose work would benefit from a period of research and training in another European country. The project provides access to supervision and training facilities at partner institutions in Bielefeld, Bratislava, Groningen, Seville and Venice. Students are given a monthly allowance, and a unique examination procedure allows them to attach the label of European Doctorate to their PhD.

Supporting graduate study
Following the success of the printed version of the *Research Student Log*, the UCL Graduate School developed an electronic version of the log. It records the completion of key stages in graduate study, including supervisory meetings, the development of key skills and self-evaluation. It helps to ensure that graduate students are able to make the most of UCL's research-led teaching environment, with students learning from academics at the cutting edge of their specialist fields.

Right Mr Sudeep Kanungo, a student in the Department of Earth Sciences, in the new Graduate Common Room

Middle Ms Caroline Norris, Coordinator of the Open Learning Centre

Far right Miss Mercedes Aspland, recipient of a *John Hawkes Scholarship for Pure Mathematics*

Other important aspects of the UCL Graduate School's support for the graduate student community included scholarships, research-project and conference funding, and its expanding Skills Development Programme. Designed to enhance employability, develop life skills and aid research, the programme involves workshops and seminars on generic skills and subjects ranging from enterprise skills to languages and bioinformatics.

Technology for teaching
UCL is exploiting rapid technological advances to bring a 21st-century feel to its teaching and learning. More than 1,700 students on almost 40 UCL courses benefit from the use of a web-based environment, providing them with access from their computers to course material, study packs, timetables and quizzes, as well as rich tools for electronic communication with their colleagues and staff. A number of lecture theatres equipped with advanced video facilities and full interactive capabilities are in regular use for courses delivered by one lecturer to students located on several sites.

Piloted with Danish departments in three UK universities, a project led by UCL to establish *Virtual Departments for Minority Languages* uses the web to combat teacher isolation, develop better learning materials and increase the variety of learning activities. The outcomes include learning materials, documentation and the virtual department working environment.

To stimulate further developments, UCL has established an Open Learning Centre equipped with the latest computer technology, where staff can not only enhance their IT skills but also work with specialist advisors on the advanced application of IT in their teaching activities.

Supporting students
The second annual *Skills for Work* conference gave more than 100 UCL students the opportunity to hear from successful professionals, attend skills workshops hosted by leading graduate employers, and network with alumni. The conference, organised jointly by UCL Careers Service, UCL Union and the UCL Alumni Network, covered a range of skills including interviews, teamwork presentations, applications, assessment centres and CV workshops, intended to improve the transition from study to work.

Expanding on UCL's extensive pastoral care services, an online project to help UCL students cope with stress and anxiety was established by doctoral student Mr Ed Freeman (Clinical Psychology). Stemming from an interest in the informal methods of support most people receive from friends, family and colleagues, the project recognises the growing use of the internet by young people. Students who may not wish to seek formal counselling can access online support anonymously and from anywhere. The content of the site is based on the recognised kinds of problems that students experience, such as loneliness, anxiety, exam stress, eating disorders, procrastination and depression.

This year saw an increase of *Graduate School Master's Awards* from 10 to 15, while *Graduate School Research Awards* increased by two to 20. Both the Chu family and the Li family, who already sponsor one full scholarship each for Chinese LLM students, now provide funding for the *Vinson Chu UCL/China Graduate Scholarship* and the *Simon Li UCL/China Graduate Scholarship*, open to exceptional students from the People's Republic of China (excluding Hong Kong) wishing to complete a master's degree. Priority areas of study include archaeology, clinical sciences, biology, computer science, mathematics, biochemistry, biochemical engineering and geological sciences. The Department of Laws saw the establishment of five new scholarships for LLM students from overseas: the *Master of the Rolls Scholarship* for Commonwealth students, the *John Carr Scholarship* for students from Africa and the Caribbean, the *Sir Frederick Pollock Scholarships* for students from North America, the *Sir John Salmond Scholarship* for students from Australia and New Zealand, and the *Chief Justice Scholarship* for students from India. The *John Hawkes Scholarships for Pure Mathematics* are awarded to up to three MPhil/PhD students.

The UCL Friends Programme contributed a record £80,000 for the UCL Friends Hardship Scholarship Fund, providing essential support for students who faced the prospect of having to leave university because of financial difficulties. Through the generosity of alumni, staff and friends, 74 talented and deserving students were assisted last year, enabling them to continue their studies or to complete their courses successfully.

Outreach In accordance with its founding principles, UCL continued to share the highest quality research and teaching with those who could most benefit from it, regardless of their background or circumstances.

Above A schoolboy at the Grant Museum of Zoology & Comparative Anatomy

Right Dr Paulette McManus, Coordinator of the *Museum Communications* course

Bottom right Professor Valerie Curran (Psychology) delivered one of a series of *Lunch Hour Lectures*

Open events
A series of events continued to involve the general public with the UCL community and its activities. *Lunch Hour Lectures*, held during term-time, provided a public forum to hear academics at the forefront of their fields discuss their work and how it relates to the wider environment. Lectures ranged from *The Search for Planets and Life Around Other Stars* to *Beyond the Genome: Animating the Book of Life* and *The International Criminal Court: What Future?*

The diversity of *Inaugural Lectures*, given by newly appointed or promoted professors, reflected the breadth of academic endeavour at UCL. This year they ranged from *The War Against Cancer: Trials and the Future* to *Border Country: Science, Society and City Nature* and *Winners and Losers in the Transition from Communism to Capitalism*. Dr J Craig Venter delivered the sixth annual *UCL Clinical Prize Lecture*: *Sequencing the Human Genome – The Gateway to a New Era in Science and Medicine*. Dr Venter is President of the Centre for the Advancement of Genomics, and has played a leading and vital role in sequencing and analysing the human genome.

The university's 'West End' theatre, the UCL Bloomsbury, offered a full programme of professional concerts and plays, as well as a season of student productions. It also hosted the *Music & the Mind* festival with the New London Orchestra, UCL's orchestra in residence. Exploring how the brain perceives, produces and appreciates music and the mysteries surrounding it, the festival was the first of its kind. Based on research conducted by UCL academics, the event promoted current scientific understanding through concerts, lectures, workshops, exhibitions and debates. Workshops held prior to the festival culminated in open sessions during the event, exploring how children with disabilities – especially blindness, deafness and autism – sense, create and appreciate music.

UCL's Department of Geography celebrated its centenary with a number of events, including a public exhibition. One of the largest geography departments in the UK, it is one of only two to have received the top grade in every Research Assessment Exercise so far.

Right A schoolboy at a widening participation workshop

Middle Ms Kimberlee Sue Lange, EuroClubs Programme Director

Far right Ms Saira Ahmed, Education Officer for UCL Museums & Collections, with schoolchildren

Widening participation
UCL's *Widening Participation Strategy* aims to raise awareness of higher education to under-represented groups, to increase the number of these students enrolled on programmes at the university and to maintain the excellent progression of those students at UCL.

Projects underway as part of the strategy include summer schools, masterclasses, theatre workshops, and student ambassador and mentoring projects. The activities address students from low-participation neighbourhoods, mature students, students with disabilities, ethnic minority students, students from state schools and colleges, and students from disadvantaged socio-economic groups.

This year saw an increase in the number of programmes offered, including Euroclubs, an initiative hosted by UCL students in London schools to cultivate schoolchildren's interest in European culture and languages. This culminated in the *Euroday 2003* event at UCL, a day of fun and interesting events, talks and seminars, attended by more than 2,000 schoolchildren. New initiatives included an online counselling scheme for students from backgrounds with little tradition of higher education. Meanwhile, in addition to its music, drama and dance events for schools, the UCL Bloomsbury theatre hosted the first *Inner-City London Teenagers' Poetry Slam*.

Two new loan boxes for schools were created this year, in addition to the three existing boxes covering Ancient Greece, Animals & Biodiversity, and Rocks & Geology. The Citizenship & Identity loan box contains replica items from Sir Francis Galton's collection of scientific instruments. An initiative for secondary school pupils at key stages three and four, the box contains objects for pupils to handle, fingerprinting kits and press cuttings designed to stimulate discussion about the body, identity, forensic science and human rights.

Graduate students from UCL's Institute of Archaeology created the second loan box. The People in Art box utilises the UCL Art Collections and gives users the opportunity to try calligraphy and Chinese writing. The box was tested on schoolchildren and received excellent reviews. Other students created and improved UCL exhibitions around campus this year as part of programmes led by Dr Paulette McManus. The students created a total of nine exhibits, including *Only Connect: Opening UCL's Collections to the World*, focusing on UCL's recent outreach initiatives, and a display in the Engineering Building prepared for Sir Ambrose Fleming's centenary in 2004.

Sharing collections
In a major boost to UCL's outreach activities, the Heritage Lottery Fund made a £5.2 million commitment in support of the new Panopticon building. The Panopticon will provide – for the first time – high-quality accommodation for UCL's Petrie Museum of Egyptian Archaeology, the UCL Art Collections and the Library Special Collections, alongside a reading room, two temporary exhibition spaces, two lecture theatres, study spaces and a cafe-bar. It will allow these marvellous collections to be conserved and publicly displayed in an environment that is both accessible and protective.

UCL's museums and collections

Anthropological Collections
Institute of Archaeology Collections
Art Collections
Geological Sciences Collections
Grant Museum of Zoology & Comparative Anatomy
Library Special Collections (Archives, Manuscripts & Rare Books)
Medical Collections
Petrie Museum of Egyptian Archaeology
Science Collections

Outreach

Top Architect Daniel Libeskind opened *Bartfest*

Middle Dr Ming Du (Histopathology) has developed a novel reagent

Bottom Ms Sally Macdonald co-edited *Consuming Ancient Egypt*, published by UCL Press

Exhibitions
A touring exhibition by UCL's Petrie Museum of Egyptian Archaeology, *Ancient Egypt: Digging for Dreams*, won a top national award. The controversial show received the prize for presenting a different view of ancient Egypt. Attracting more than 94,000 visitors, the show took a new approach to the subject of ancient Egypt, raising ethical issues concerning race, politics, archaeology and the role of museums.

The connections between war, art and medicine were explored through work by Henry Tonks, Slade Professor (1918–1930) at a UCL Art Collections exhibition. *Henry Tonks: Art & Surgery 1904–1930* was marked by *War, Art & Medicine*, a two-day conference at UCL and the National Portrait Gallery.

In a unique collaboration, UCL's Strang Print Room and the Sir John Soane's Museum created an exhibition dedicated to John Flaxman, the Neoclassical sculptor. *John Flaxman: Master of the Purest Line* was displayed at both venues, together with a Flaxman Trail of sculptures on public display in churches and museums around London mapped out in a leaflet. The UCL Art Collections holds an unrivalled collection of works by Flaxman, including more than 120 sculpture models, mostly designs for funerary monuments.

More than 450 students exhibited their final-year projects at *Bartfest*, the Bartlett School of Architecture's annual degree show. Opened by internationally renowned architect Daniel Libeskind, the show ran in tandem with the *Bartlett/Lowe International Lecture Series*, featuring prominent architects.

An 84m textile artwork illustrating the structure of DNA was exhibited at the Institute of Child Health from February to April 2003. *Transformations in Science & Art* commemorates the 50th anniversary of the publication of the structure of DNA by Francis Crick – a former student and Fellow of UCL – and James Watson. The artwork was created by two artists-in-residence, Claire O'Hagan and Denise Wyllie.

Developing enterprise
A new post was created by UCL Biomedica – responsible for technology transfer and the management of biomedical-related intellectual property – specifically to work with UCL staff who develop novel reagents such as antibodies. Reagents can help researchers to investigate the biology of diseases, and the commercialisation of such reagents could generate more than £1 million for research groups, departments and the university.

The UK's *Chevening Technology Enterprise Scholarship Programme* – managed by the Centre for Scientific Enterprise, a joint venture between UCL and London Business School (LBS) – brought nine overseas graduate students to UCL as part of a scheme to encourage the commercialisation of a technology. The centre continued to promote technology-based entrepreneurship among UCL's staff and students through the provision of courses and networking at LBS.

The London Technology Network, another joint venture between UCL and LBS, links companies worldwide to the technology and expertise within London's universities. This year, it recruited 85 Business Fellows from London's leading science and technology research departments, including 18 from UCL. It is working with scores of technology-intensive companies to help them understand when and how to work with universities, assisting universities to respond effectively to business needs and fostering networking between the two.

NeuroDelta, a biotechnology proposition led by Dr Nathaniel Milton (Molecular Pathology & Clinical Biochemistry), was the first winner of UCL's Entrepreneur's Challenge competition. NeuroDelta aims to develop and commercialise novel small molecule drugs and diagnostic reagents that address neurological disorders, cancer, cardiovascular and inflammatory diseases. Dr Milton collected the top prize of £5,000, and two runner-up prizes of £3,000 were awarded to Wheelion, a manufacturer of advanced carbon fibre wheelchairs, and afterGrad, a graduate recruitment company.

Right Dr Sushrut Jadhav (Psychiatry & Behavioural Sciences)

Middle Mr Michele Petrone (Centre for Medical Humanities)

Far right Clare O'Hagan, Artist-in-Residence

'Spin-out' companies
Along with an increase in the licensing of new technologies and systems, a greater number of academics are taking their intellectual property to society in the form of 'spin-out' companies. This can speed up the progress of promising ideas into the marketplace and the delivery of benefits to humanity.

UCL 'spin-out' company Zeeko, which makes robots for polishing telescope mirrors, teamed up with Professor Gordon Blunn (Biomedical Engineering) to develop a new technique for polishing artificial knee joints. The robotic technique eliminates the need for hand finishing, and so cuts the time taken for polishing from months to days, and can add ten years to the life of the joint.

A structural integrity monitor, developed by UCL 'spin-out' company Fiostec, could prolong the life of anything from vehicle suspension systems to oil rigs. The wireless 'nervous system' for measuring stress is based on an electrical resistance strain gauge. Unlike similar equipment, the gauge is completely self-contained and eliminates interference, providing laboratory quality information in the field.

Volunteering
The Voluntary Services Unit, based in UCL Union, was established to offer staff and students the opportunity to join various organisations on voluntary placements. The unit provides volunteers with a wide range of activities, from conservation projects or medical charities, to work with the homeless or people with disabilities.

Publishing
UCL Press was relaunched in conjunction with Cavendish Publishing. Providing a publishing outlet for UCL academics, UCL Press is dedicated to the publication of affordable academic monographs and student handbooks of the highest quality. The initial publication programme focuses on political science, international relations, law and criminology, sociology, planning and geography, and history.

Cultural awareness
Dr Sushrut Jadhav (Psychiatry & Behavioural Sciences), with Ms Sue Salas of the Camden & Islington Mental Health & Social Care Trust, developed a training programme to help mental health professionals become more aware of cultural issues relating to Muslim in-patients. It is hoped that the results will translate into culturally sensitive care for Muslim patients. A one-day session held at Regent's Park Mosque – attended by 125 health professionals – covered general issues relating to Islam in the UK and explored issues that might arise when managing Muslims as in-patients in psychiatric wards.

Illness and art
A new charitable foundation was launched by UCL honorary lecturer Mr Michele Petrone (Centre for Medical Humanities). An educational initiative, the foundation aims to promote the expression, understanding and communication of the emotional impact of illness through workshops, publications and exhibitions. A professional artist, Mr Petrone was diagnosed with Hodgkin's disease – a form of cancer of the lymph system – in 1994. While undergoing treatment, he found it extremely therapeutic to express his feelings through painting. Through the foundation, Mr Petrone organises art workshops for patients, carers and health professionals in order for them to explore their feelings and other issues.

Spanning the boundary with the NHS
UCL initiated a national forum to develop better communications between universities and associated NHS trusts. The project will benefit clinicians with academic roles, students working on placements in hospitals distant from their university base and hospital staff requiring access to university library resources for reference and professional development.

Achievements UCL's academics conducted pioneering work at the forefront of their disciplines during this year.

Top Professor Jane Wardle (Epidemiology & Public Health)

Right Professor Linda McDowell (Geography)

Below Professor David Bindman (History of Art)

A research team led by Professor Linda McDowell (Geography) investigated issues relating to the new economy and implications of work, family life and the management of time. A total of 130 families with pre-school or school-age children – selected to reflect different socio-economic and ethnic compositions – were interviewed in both London and Manchester. The interviews covered areas such as childcare, housework, employment conditions, education and housing. The emerging patterns from the data of both cities are ones of considerable variety and complexity. Households adopt a range of different strategies to fulfil their overall obligations and to ensure their children are cared for that do not map onto simple socio-economic divisions. These strategies reflect the intersection of a number of decisions about working lives and women's views about the significance of 'proper' mothering.

An innovative approach to tackling the increasing incidence of childhood obesity was introduced by Professor Jane Wardle (Epidemiology & Public Health). The 12-week health programme encourages both the child and the child's immediate family to work towards improving their eating and exercise habits. Parents who were confused about their child's relationship with food complete the programme with a better understanding of how to manage their child's weight.

Professor David Bindman (History of Art) addressed 18th-century ideas towards the relationship between race and beauty in his book *Ape to Apollo: Aesthetics and the Idea of Race in the 18th Century*. He examined the consequences of the widespread and ancient belief in Europe that beauty and morality were allied; hence in various systems for classifying humanity, artistic ideas tended, often against the intentions of the authors concerned, to reinforce claims for European superiority. For example, the Dutch anatomist Peter Camper's attempt to classify skulls comparatively was perverted in the 19th century to serve the idea that there was a scientific basis for the idea of 'race'.

Right Dr Lounes Chikhi (Biology)

Middle Dr Saladin Meckled-Garcia (School of Public Policy)

Far right Professor Steve Jones (Biology)

Bladder and prostate cancer can be treated easily if diagnosed in the early stages, but detection often occurs late. Dr Kai Stoeber and Professor Gareth Williams (Wolfson Institute for Biomedical Research) discovered a simple urine test that allows the diseases to be detected in a non-invasive way and at reduced cost to the NHS. If adopted as a national screening tool, it could lead to the eventual eradication of both diseases in the UK.

A research project commissioned by the Welsh National Assembly, conducted by Dr Mark Tewdwr-Jones (Bartlett School) and colleagues, provided the first objective evidence on the numbers of second homes in Wales and property ownership trends over the last decade. The team disproved the theory that the prevalence of holiday homes in Wales is disrupting local communities. An estimated 25–30% of properties in certain areas were thought to be owned by outsiders and lay empty for most of the year. However, the study showed that only 1.58% of properties were second or holiday homes, and that retirement homes were the real problem. The findings support claims that demand for retirement properties has pushed prices beyond the reach of local people and that an influx of older people has changed the demographic, economic and linguistic profile of these communities.

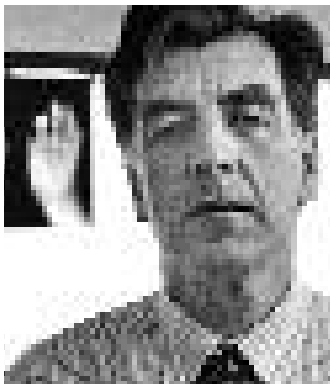
Dr Lounes Chikhi (Biology) and his team analysed rare genetic markers on the Y-chromosomes of 1,000 modern Europeans and found common ancestry among different populations. Over half the genes of indigenous Europeans may have come from immigrants from the Middle East who brought farming to the continent 6,000–10,000 years ago. The results ranged from 15–30% for north-western Europeans, to 85–100% for those in Albania, Macedonia and Greece. Previously, it had not been clear whether people colonised areas or the neighbouring hunter-gatherers integrated farming techniques through cultural contact. The findings show that cultural transmission of farming is extremely unlikely and that there were significant movements of people.

UCL's School of Public Policy held a groundbreaking conference on the legalisation of human rights. The event firmly established the school and the university – which had just launched a new *MA in Human Rights* – at the forefront of human rights discussion and research. Organised by Dr Saladin Meckled-Garcia, the multidisciplinary conference tackled issues such as the legal implementation of human rights ideals, legal constraints on capturing the nuances of human rights policies and legal models of 'human wrongs'. The two-day event attracted leading experts including lawyers, social scientists, researchers and representatives from human rights, governmental, non-governmental and inter-governmental organisations.

The Vinland Map, a piece of parchment that purportedly proves that Scandinavian explorers arrived in America centuries before Columbus, was shown to be a forgery. Professor Robin Clark and Ms Katherine Brown (Chemistry) employed Raman spectroscopy to trace the distribution over the parchment of a substance called anatase, which is not known to have been manufactured before the 1920s. Anatase had been detected previously in a sample of the map's ink, and the researchers found that all the ink contained it.

Professor Steve Humphries (Medicine) coordinated a major conference by London IDEAS (Innovation, Dissemination, Evaluation, Application, Strategy), the London Genetic Knowledge Park. *Genetics, Human Health & Disease* brought together experts from UCL – including Professor Steve Jones (Biology) – Imperial College, St George's Hospital Medical School and their associated teaching hospitals, together with other partners across London. The conference was an opportunity for the public to hear scientists and doctors explain genetics and for the audience to voice their opinions and concerns. Topics included whether certain genes give a person heart disease or cancer, and how the insurance industry plans to use genetic tests. Doctors and patients also demonstrated how genetics can help people to understand disease, choose treatment and advise families.

Achievements



Top Dr Susan Collins (Slade School of Fine Art)

Middle Professor Jonathan Edwards (Medicine)

Bottom Professor David Isenberg (Medicine)

The face behind the famous golden death mask of the Egyptian Pharaoh Tutankhamun was revealed following pioneering work by Dr Robin Richards (Medical Physics & Bioengineering). By employing computerised facial reconstruction techniques, Dr Richards created a virtual three-dimensional image of the king's skull, based on data from x-rays taken of his mummified skull in 1968. Using a unique laser scanning system developed at UCL, Dr Richards then scanned the facial features of a selection of people who shared Tutankhamun's age group, approximate size and ethnic background, to create an 'average' face. To add flesh to bone, key landmarks were matched on both the skull and the sample face. For each landmark on the skull, new points were calculated floating over the bone, through which the skin surface should pass. Then the sample face was warped until there was a perfect fit.

Dr Susan Collins (Slade School of Fine Art) directed *Tate in Space*, an online project for the Tate, exploring the possibilities of outer space as a venue for its next gallery. Scientists from UCL's Mullard Space Science Laboratory also contributed to the project, which includes a notional 'Tate Satellite' orbiting the earth.

A radical theory of the cause and treatment of rheumatoid arthritis was announced by Professor Jonathan Edwards (Medicine) and his team, after trials showed substantial improvements in 80% of patients. Professor Edwards' research focused on white blood cells called B lymphocytes, as opposed to T lymphocytes, commonly believed to be a major contributor to the disease. Patients were prescribed Rituximab, a drug that seeks out and sticks to a molecule only found in B cells. Although the process kills both healthy and affected B cells, adults have developed enough antibodies to live perfectly happily for the six months it takes for the body to replace B cells. Professor Edwards has treated severely disabled patients who were able to return to work or even resume playing sports. A single treatment of Rituximab can improve the condition for between one and two years. Professor Edwards' long-term aim is to achieve permanent remission.

Professor Mel Slater (Computer Science) and PhD students Mr Jesper Mortensen and Mr Joel Jordan made tactile contact over the internet with peers at the Massachusetts Institute of Technology, using a virtual handshake which stretched over the Atlantic Ocean. During the experiment, two subjects in London and Boston manipulated a cube together. Although thousands of miles apart, the subjects could feel the force exerted by their virtual partner and worked cooperatively to move the cube across a visual virtual environment. The experiment was conducted using a hand-held device that sends small impulses at very high frequencies, imitating our sense of touch. It followed UCL's work to develop software for a HAPTIC Interface – a device that simulates touch – over network paths of extremely long distances. The system could one day be used to allow users to manipulate virtual objects together, in remote training or applications such as tele-surgery.

Professor Alan Boyde (Anatomy & Developmental Biology) won the 'Science Close-Ups' category of the 2002 *Novartis and Daily Telegraph Visions of Science Awards* for his image of porotic bone. It reveals the three-dimensional lattice of porous 'spongy' bone in the lower spine of an elderly woman. The image is a composite of 42 separate scanning electron micrographs from 14 focus levels and three detectors.

Recording artist Dido opened the new research offices of UCL's Centre for Rheumatology, made possible by support from the Rose Foundation. A team led by Professor David Isenberg (Medicine) successfully treated the singer's father, William Armstrong, when he was critically ill with lupus. The family returned to show their appreciation for the centre's work, expressing the hope that the centre's expanded facilities would help to bring the same joy to many other families. Great strides have been made in the last few years, but lupus and related diseases such as rheumatoid arthritis remain serious challenges.

Right Professor Uta Frith (Institute of Cognitive Neuroscience)

Middle Dr Melvyn Stokes (History)

Far right Professor Faraneh Vargha-Khadem (Institute of Child Health)

More than 70 scientists from all over the world gathered at the Mullard Space Science Laboratory in October 2002 for the first-ever workshop organised specifically to deal with high-resolution dispersive x-ray spectroscopy from all sorts of cosmic sources. Attendees shared and reviewed theories, results and analysis techniques based on data received from the two major x-ray astronomy satellites, *Chandra* and *XMM–Newton*. The satellites are ideal for investigations into faint and distant sources, from stars to active galaxies. Such information has proved to be an invaluable tool in investigations of dynamics and physical structures. Now that data is distributed widely within the astronomical community, it was important for space scientists to review the results, explore the analysis techniques and reconcile theory associated with these observations.

Professor Jeffrey Jowell (Laws) assisted in the drafting of the constitution of the newly formed country of Serbia and Montenegro. In February 2003, the Yugoslav parliament voted in favour of joining the independent states into one united country. Professor Jowell was involved as the UK's ambassador on the Council of Europe's Commission for Democracy through Law. His role was to provide a framework constitution that would bring the country under the rule of law, protecting human and minority rights, with an independent court to enforce those rights. Professor Jowell also drafted proposals to submit the army to civilian control under those standards of international law that control the use of military force.

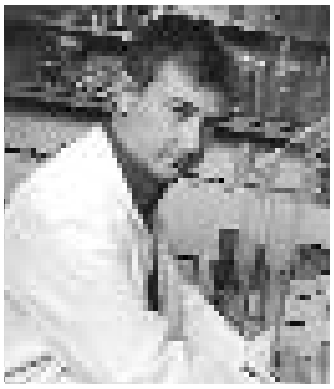
At the fourth annual *Asian Women of Achievement Awards*, Professor Faraneh Vargha-Khadem (Institute of Child Health) was presented with the *Professional of the Year* award for her outstanding contribution to mental health and child development. As Head of the Developmental Cognitive Neuroscience Unit, her research and clinical work is devoted to understanding the cognitive and behavioural deficits of brain-injured children, as well as inherited speech and language disorders, and childhood amnesia.

Professor Uta Frith (Institute of Cognitive Neuroscience) published the second edition of her highly successful book *Autism: Explaining the Enigma*, 12 years on from the original edition. Significant scientific advances have been made since the first edition was written, so the publishers asked for an updated version on how scientific understanding and social acceptance of autism has progressed. So many things have changed that the book was almost completely re-written. Although huge progress has been made on cognitive theories and their neurological basis, work on the genetic identification of autism has proved to be much slower than anticipated. Professor Frith believes that the most positive change has been the huge increase in public understanding and awareness.

UCL hosted a landmark conference co-organised by Dr Melvyn Stokes (History). The *Commonwealth Fund Conference on American History* was devoted to 'American Cinema and Everyday Life' and was supported by staff and alumni through the UCL Friends Programme. More than 50 papers were presented on the comparatively under examined areas of movie-going in rural settlements, smaller cities and towns, itinerant exhibition, and non-theatrical and non-commercial exhibition. The historical span of the conference ranged from the post-nickelodeon era up to the latter half of the 20th century.

A major fundraising appeal over two years by UCL's Institute of Child Health, Great Ormond Street Hospital and the National Centre for Young People with Epilepsy raised £1.5 million to establish the first-ever research chair in childhood epilepsy. This was accomplished with the patronage and enthusiastic support of HRH The Prince of Wales. The new chair will lead Europe's largest multidisciplinary group of clinical scientists devoted to childhood epilepsy. The appointment will create an international centre for research excellence on the disease, with a primary focus on the severe mental and physical deterioration often experienced by children with epilepsy.

Achievements



Top Dr Bart Vanhaesebroeck (Ludwig Institute for Cancer Research)

Middle Professor Peter Shepherd (Biochemistry & Molecular Biology)

Bottom Professor Jacqueline McGlade (Mathematics)

A state-of-the art space telescope built by a team led by Professor Keith Mason (Space & Climate Physics) was transported to the Goddard Space Flight Center in Maryland, USA. One of three telescopes on a NASA orbiting space observatory, its mission is to investigate gamma ray bursts. It is believed that gamma-ray bursts occur when hypernovae – massive stars – explode, leaving behind a black hole, or when dense neutron stars collide. If a gamma-ray burst occurred in the Earth's galaxy it would cause mass extinction on the planet in seconds.

Dr Bart Vanhaesebroeck (Ludwig Institute for Cancer Research) and his team identified a molecule that plays a key role in the immune system. The findings could lead to the development of treatments for autoimmune diseases, leukaemia and transplant rejection. The fundamental functions of cells are controlled by a group of enzymes with a known link to cancer. The team successfully blocked the action of one of the enzymes, known as p110delta, preventing a normal immune response. If designed as a medicine, this technique would be highly effective, with fewer side effects than current drugs.

Dr John Waller (Wellcome Trust Centre for the History of Medicine) published a controversial book, *Fabulous Science*. Confronting the traditional perceptions about the nature of scientific breakthroughs, the book claims that the work and discoveries of famous scientists have often been misrepresented. Containing research by Dr Waller and other historians of science and medicine, it outlines how the media has reinforced a romantic image of scientific heroes that ignores the crucially important contributions of many other scientists.

Natural compounds in tea, coffee and chocolate could one day be dispensed as treatments for heart disease, cancer and inflammatory illnesses, according to Professor Peter Shepherd (Biochemistry & Molecular Biology) and colleagues. The research team found that as caffeine and theophylline block the function of a key enzyme – PI-3 kinase – in the body, they could also block cell growth and blood clotting. The discovery could explain why theophylline, already used in treatment for asthma, is an effective anti-inflammatory.

Professor Jacqueline McGlade (Mathematics), Natural Environment Research Council Fellow in Informatics & Mathematics at UCL, was seconded for five years as Executive Director of the European Environment Agency. The agency supports sustainable development and helps to achieve significant and measurable improvement in Europe's environment. Professor McGlade has advised governments on a range of issues, including fisheries, environmental impacts and genetic engineering.

Babies could have the risk of developing vision problems in later life substantially reduced if they are prescribed correcting spectacles in their first year. Professor Janette Atkinson (Psychology) found that babies as young as six months old can tolerate glasses – much more than those aged two. However, the difficulty lies in prescribing the correct glasses – some children with long sight as babies may show broader problems including slower 'visuo-motor' skills, such as those used in catching a ball, or difficulty with 'visuo-cognitive' tasks, such as matching shapes.

UCL academics joined forces with colleagues from centres around the UK and experts in France to create an Anglo-French network for researchers and students of the history of science, medicine and technology. The network was launched at UCL's Wellcome Trust Centre for the History of Medicine. The 29 participants established a framework for future research collaboration between the two nations, including student exchanges, seminars, co-supervision of PhD theses, a bibliography and a website.

The Bartlett School of Architecture's website was a runner-up in the British Academy of Film & Television Arts' Interactive Entertainment Awards. Its website was nominated in the 'Interface Design' category, which was narrowly won by Habitat.

Right Professor Janette Atkinson (Psychology)

Middle Dr Martin Bridge (Institute of Archaeology)

Far right Ms Anna Soave (Development Planning Unit)

The President of the American Association for the Advancement of Science (AAAS) praised the UCL Whitehall Study into social inequalities in health. In his prestigious *President's Lecture* at the 2003 AAAS Annual Meeting, Dr Floyd E Bloom stated: "Exemplary social science research – such as the Whitehall Study and a recent 25-year follow-up report – should serve as a model for researchers seeking to advance human welfare worldwide through improved medical care." Led by Professor Sir Michael Marmot (Epidemiology & Public Health), the long-term study examines the effect of social inequalities on health. The first Whitehall Study began in 1967 and involved more than 18,000 male civil servants employed at Whitehall. Currently in its second phase, the study takes particular interest in various influences on health among white-collar workers, such as job insecurity and the interaction between work and home.

Dr Michael Ehrenstein (Medicine) collaborated with the Science & Technology Department of the French Embassy and Dr Srini Kaverni (INSERM, Paris) to establish a network between the two countries that promotes research and cooperation in the field of immunotherapy of autoimmune diseases. The network aims to find and test better and more effective treatment for patients with a number of autoimmune diseases – such as diabetes, multiple sclerosis and systematic lupus erythematosus – and a joint PhD programme is also planned.

UCL's Centre for Sustainable Heritage hosted a seminar in collaboration with English Heritage, the National Trust and Historic Royal Palaces. The centre reported findings of a year-long research project, led by Mr Joel Taylor, into the natural ageing of historic objects. The project resulted in a new methodology for assessing the long-term deterioration of artefacts in historic houses.

Deep and intermediate focus earthquakes were created in a laboratory for the first time by a team led by Dr David Dobson (Earth Sciences). Occurring in 10 cubic mm of highly compressed rock, the synthetic quakes are so tiny that they can only be detected by specific listening devices. The breakthrough will allow researchers to understand the origin of naturally occurring earthquakes.

When renovations were being carried out at a chemist's shop in Hertfordshire, builders uncovered a 13th-century wooden structure. Realising the potential importance of the discovery, the local council called on the specialist services of Dr Martin Bridge (Institute of Archaeology). An expert in tree-ring dating, Dr Bridge has also worked on the Tudor warship the *Mary Rose*. Based on a sample of sapwood from the structure, Dr Bridge predicted that it was built between 1277 and 1297, making the building Britain's oldest timber-framed shop.

A series of publications and CD-ROMs produced by UCL's Development Planning Unit (DPU) were well received at a number of international events. Organisations including the Department for International Development (DFID), the United Nations and the World Bank were so impressed by the material that they requested more copies and commissioned further work from the production team, led by Ms Anna Soave. A CD-ROM entitled *The 21st Century Urban Century* was compiled for the DFID and the European Union for the occasion of *World Habitat Day* in October 2002. Based on the success of the CD's reception, the DFID subsequently commissioned the unit to compile, design and produce 3,000 copies of a new boxed set of CD-ROMs and a website entitled *Drivers of Urban Change*. The unit also produced a publication entitled *Sustainable Urbanisation: Bridging the Green & Brown Agendas*, commissioned by the DFID and UN-Habitat for the 2002 *World Summit on Sustainable Development*. The book contains research and analysis of case studies from all over the world conducted by the DPU.

The UCL Community

UCL's staff, students, alumni and members of Council form a community which works closely together to achieve the university's goals.

Members of UCL Council
– At 1 January 2004
Lord Young of Graffham (Chair)
Viscount Bearsted
Sir John Birch
Ms Adele Biss
Mr Alexander Coles
Professor Ian Dennis
Professor Peter Ell
Dr Jane Ferrie
Sister Teresa Finn
Baroness Flather of Windsor and Maidenhead
Mr Robin Fox
Professor Mary Fulbrook
Professor Malcolm Grant
Sir Alan Greengross
Professor Hugh Griffiths
Ms Amy Hansen
Mr Kerry Hawkins
Professor Christine Hawley
Mr Christopher Jonas
Mr Roger Lyons
Professor Peter Mobbs
Professor David Price
Mr Sinan Rabee
Miss Margaret Rudland
Ms Janet Salmon
Dr Bill Stephenson
Dr Andrea Townsend-Nicholson
Dr Nicholas Tyacke
Dr Paul Williams
Professor Peter Wood

Secretary to Council: Mr Tim Perry,
Director of Academic Services

UCL officers
– At 1 January 2004
Visitor The Master of the Rolls
Chair of Council Lord Young of Graffham
Vice-Chair of Council Sir Alan Greengross
Treasurer Mr Kerry Hawkins
Provost & President Professor Malcolm Grant

Vice-Provosts
– At 1 January 2004
Professor Dave Delpy
Professor Richard Frackowiak
Miss Marilyn Gallyer
Professor Michael Spyer
Professor Michael Worton

Pro-Provosts
– At 1 January 2004
China Professor David Norse
Europe Professor Wendy Davies
Far East Professor Philip Treleaven
London Professor Alan Lord

Deans of UCL faculties
– At 1 January 2004
Arts & Humanities Ms Jane Fenoulhet
Built Environment Professor Christine Hawley
Clinical Sciences Professor Leon Fine
Engineering Sciences Professor Christopher Pitt
Laws Professor Michael Bridge
Life Sciences Professor Bob Lieberman
Mathematical & Physical Sciences Professor Fred Pearce
Social & Historical Sciences Professor Hugh Clout

Other UCL officers
– At 1 January 2004
Vice-Provost (Administration) Miss Marilyn Gallyer
Commercial Director Dr Jeff Skinner
Dean of Students Professor John Foreman
Director of Development & Corporate Communications
Dr Alisdaire Lockhart
Director of Education & Information Support Division
Professor Roland Rosner
Director of Education & Professional Development
Ms Toni Griffiths
Director of Estates & Facilities Mr Richard Furter
Director of Finance Mr Jack Foster
Director of Human Resources Ms Sarah Brant
Director of Information Systems Mr Robert Clark
Director of Library Services Dr Paul Ayris
Director of Management Systems Mr Michael Stock
Director of Media Resources Mr Simon Brown
Head of the UCL Graduate School Professor Leslie Aiello
Registrar Mr Martin Butcher
Senior Tutor Mr Robin Allan

Staff and students
– At 1 December 2002

	Academic and research staff	Undergraduate students	Graduate students
Arts & Humanities	257	1,929	640
Built Environment	101	413	816
Clinical Sciences	1,889	1,248	1,484
Engineering Sciences	335	1,199	949
Laws	43	533	467
Life Sciences	743	2,334	947
Mathematical & Physical Sciences	365	1,688	318
Social & Historical Sciences	347	2,325	1,047
	4,080	**11,669**	**6,668**

In 2002/2003 UCL's academic staff included 35 Fellows of the Royal Society, 27 Fellows of the British Academy, 13 Fellows of the Royal Academy of Engineering and 75 Fellows of the Academy of Medical Sciences.

This year more than a third of the university's 18,000 students were graduate students. Of first-degree awards made in the previous year, 18% were first-class honours and 55% second-class honours (upper division). There were 4,723 international students from more than 135 countries, with 42% of them from elsewhere in Europe, 33% from Asia and 12% from North America.

Equal opportunities
UCL is committed to promoting equality throughout its diverse workforce and student population and thrives on the creativity this generates. UCL has a Committee for Equal Opportunities, a full-time Equal Opportunities Coordinator and Departmental Equal Opportunity Liaison Officers (DEOLOs) in each department, to whom staff and students can turn for assistance with the implementation of policies at a practical level.

In its second year, another 12 departments became involved in Equality Action Planning, implementing initiatives with measurable outcomes in support of departmental and corporate equality objectives. This year UCL improved the accuracy of its equality monitoring data, bringing it in line with the classifications used in the 2001 Census.

The university established an aspirational workforce equality target, which is that the ethnic profile of its support staff will reflect the proportion of economically active black and minority ethnic population in the Greater London area (22%) by September 2004. During 2002/2003 minority ethnic staff in this group increased from 12% to 18%. Consideration is being given to establishing targets regarding gender and disability.

This year saw a number of new training initiatives, including race equality and disability awareness training for staff, especially those with a remit for the recruitment of staff and students.

Fellowships
Fellowships of UCL were awarded to 12 alumni who have attained distinction in the arts, literature, science or public life: **Professor Brenda Bigland-Ritchie** (Physiology 1949; PhD 1969; DSc 1987), physiologist; **Ms Georgina Butler** (Laws 1968), HM Ambassador to Costa Rica; **Mr Edwin Glasgow** (Laws 1967), barrister; **Professor James Graham-Campbell** (1969–1971); **Professor Michael Harrison** (Middlesex 1962); **Professor David Larman** (Mathematics 1963; PhD 1965); **Ms Ana Maria Pacheco** (Slade School 1975), sculptor; **Professor Fred Pearce** (Chemistry 1967; PhD Biological Chemistry 1971); **Professor Mark Pepys** (Medical School 1968), Head of the Department of Medicine, UCL; **Professor Charles Rodeck** (Anatomy 1966; Medical School 1969; DSc 1991); **Dr Sir Mortimer Sackler** (Middlesex 1944); and **Dr Roger Tomlinson** (PhD Geography 1974), pioneer of the first integrated geographic information system.

Honorary Fellowships
Honorary Fellowships of UCL were awarded to eight people who have achieved international distinction in their field of work: **Lady Aird**, Chair, League of Friends of the Middlesex Hospital; **Mr David Baker**, Senior Director, Colliers CRE; **Professor Carol Black**, President, Royal College of Physicians; **Professor Peter Day**, Fullerian Professor of Chemistry, Royal Institution of Great Britain; **Professor Diana Laurillard**, Head, e-Learning Strategy Unit, Department for Education & Skills; **Ms Vanessa Lawrence**, Director-General and Chief Executive, Ordnance Survey; **Professor John North**, Professor of History, UCL; **Professor Sir Alan Wilson**, Vice-Chancellor, University of Leeds.

Queen's Birthday Honours
Mr Ken Adam (Bartlett School 1938) was awarded the OBE for services to film production design and UK–German relations. **Professor John Hamilton Baker** (Laws 1965) was made a Knight Bachelor for services to English legal history. **Dr Richard Gordon McBride Budgett** (Medical School 1983) was awarded the OBE for services to sport. **Professor Peter Kirstein** (Computer Science) was awarded the CBE for services to internet working research. **Mr Steve Packer** (Geography 1964) was awarded the OBE. **Professor Linda Partridge** (Biology) was awarded the CBE for services to evolutionary biology. **Mr Paul Richard Streets** (Geography 1980) was awarded the OBE for services to people with diabetes. **Mrs Alma Williams** (French 1950) was awarded the OBE for services to the European Union.

Alumni
UCL's 85,000 alumni were kept informed about, involved with and supportive of their university through regular printed and electronic communication, regional groups and events including reunions. Alumni returned to offer careers advice to current students as part of the *Skills for Work* conference, at which **Mr Digby Jones** (Laws 1977), Director-General of the Confederation of British Industry, delivered the keynote address. An open house was held at UCL for 1930–1959 graduates, which included tours of the university and UCL's collections and museums. Thousands of alumni continued to support UCL financially through the Friends Programme – which funds teaching, research, facilities and scholarships – helping their university to remain true to its principles of excellence, innovation and access.

The UCL Community

Professorial appointments (established and personal chairs)

Professor Philippe Aghion (Economics): Ricardo Professor of Political Economy
Professor Rosemary Ashton (English Language & Literature): Quain Professor of English Language & Literature
Professor Christopher Baker (Electronic & Electrical Engineering): Professor of Electrical Engineering
Professor Celia Britton (French): Professor of French
Professor Chris Carey (Greek & Latin): Professor of Greek
Professor Richard Catlow (Chemistry): Professor of Chemistry
Professor Peter Coveney (Chemistry): Professor of Physical Chemistry
Dr Ingemar Cox (Computer Science and Electronic & Electrical Engineering): BT Exact-Technologies Professor of Telecommunications
Professor John Cunningham (Medicine): Professor of Nephrology
Professor Linda Franck (Institute of Child Health): Professor of Children's Nursing Research Studies
Dr Mark Handley (Computer Science): Professor of Networked Systems
Professor Marwan Hariz (Institute of Neurology): Professor of Functional Neurosurgery
Professor Alan Jones (Chemical Engineering): Ramsay Memorial Professor of Chemical Engineering
Dr Stephen Mackinnon (Haematology): Professor of Haematology
Professor William McKenna (Medicine and Institute of Child Health): Professor of Cardiology
Mr Simon Rusling (Mechanical Engineering): Professor of Naval Architecture
Professor David Shanks (Psychology): Professor of Psychology
Professor Trevor Sweeting (Statistical Science): Professor of Statistics
Professor Robert Unwin (Medicine): St Peter's Trust Professor of Nephrology

Promotions to professor

Dr Bas Aarts (English Language & Literature): Professor of English Linguistics
Dr Robin Ali (Institute of Ophthalmology): Professor of Human Molecular Genetics
Dr Timothy Atkinson (Earth Sciences): Professor of Environmental Geoscience
Mr Rolfe Birch (Institute of Orthopaedics & Musculoskeletal Science): Professor of Orthopaedic Neurological Surgery
Dr Stefano Brandani (Chemical Engineering): Professor of Chemical Engineering
Mr Thomas Carlstedt (Institute of Orthopaedics & Musculoskeletal Science): Professor of Peripheral Nerve Surgery
Dr Alan Connelly (Institute of Child Health): Professor of Biophysics
Dr Martin Crompton (Biochemistry & Molecular Biology): Professor of Biochemistry
Dr Mark Cropper (Space & Climate Physics): Professor of Astrophysics
Dr Marianna Csornyei (Mathematics): Professor of Mathematics
Dr Nick Donaldson (Medical Physics & Bioengineering): Professor of Neuroprosthesis Engineering
Dr Susan Evans (Anatomy & Developmental Biology): Professor of Vertebrate Morphology & Palaeontology
Dr Michael Ewing (Chemistry): Professor of Physical Chemistry
Dr Barry Fuller (Surgery): Professor in Surgical Sciences
Dr Sebastian Gardner (Philosophy): Professor of Philosophy
Dr David Goldblatt (Institute of Child Health): Professor of Vaccinology & Immunology
Dr Ivan Gout (Biochemistry & Molecular Biology): Professor of Cancer Biochemistry
Mr George Hamilton (Surgery): Professor of Vascular Surgery
Dr Adrian Harwood (Biology): Professor of Biology
Dr Andrew Hemingway (History of Art): Professor of History of Art
Dr Steffen Huck (Economics): Professor of Economics
Dr Parmjit Jat (Institute of Neurology): Professor of Neurodegenerative Disease
Dr Nigel Klein (Institute of Child Health): Professor of Infectious Disease & Immunology
Dr Jonathan Knowles (Eastman Dental Institute): Professor of Biomaterials Science
Dr Diana Kuh (Epidemiology & Public Health): Professor of Life Course Epidemiology
Dr John Ladbury (Biochemistry & Molecular Biology): Professor of Biophysics
Dr Gaetana Laricchia (Physics & Astronomy): Professor of Physics
Dr Alf Linney (Medical Physics & Bioengineering): Professor of Medical Physics
Dr Haroun Mahgerefteh (Chemical Engineering): Professor of Chemical Engineering
Dr Jane Maxim (Human Communication Science): Professor of Human Communication Science
Dr Steve Miller (Physics & Astronomy): Professor of Planetary Science & Science Communication
Dr Kevin Moore (Medicine): Professor of Hepatology
Dr David Muller (Institute of Child Health): Professor of Biochemistry
Dr James Nazroo (Epidemiology & Public Health): Professor of Medical Sociology
Mr Andrew Nunn (MRC HIV Clinical Trials Unit): Professor of Epidemiology
Dr Philip Patsalos (Institute of Neurology): Professor of Clinical Pharmacology
Mr Alan Penn (Bartlett School): Professor of Architectural & Urban Computing
Dr Catherine Price (Institute of Neurology): Professor of Cognitive Neuroscience
Dr Anne Ridley (Biochemistry & Molecular Biology): Professor of Cell Biology
Dr Angela Sasse (Computer Science): Professor of Human-Centred Technology
Mr David Taylor (Institute of Child Health): Professor of Paediatric Ophthalmology
Mrs Nina Thornhill (Electronic & Electrical Engineering): Professor of Control Systems
Dr Jurgen Thurow (Earth Sciences): Professor of Palaeoceanography & Sedimentology
Dr Michael Wadsworth (Epidemiology & Public Health): Professor of Social & Health Life Course Research
Dr John Woodley (Biochemical Engineering): Professor of Biochemical Engineering
Dr Christopher Yeo (Anatomy & Developmental Biology): Professor of Behavioural Neuroscience
Dr Mehrdad Zangeneh (Mechanical Engineering): Professor of Thermofluids

Awards, appointments, elections and honours

American Academy of Microbiology Fellowship: Professor Paul D Griffiths (Medical School)
American Academy of Sciences Foreign Fellows: Professor Ken Binmore (Economics), Professor Richard Blundell (Economics) and Professor Peter Kirstein (Computer Science)
American Association of Public Health Dentistry Special Merit Award for Outstanding Achievement in Community Dentistry – International: Professor Audrey Sheiham (Epidemiology & Public Health)
Archaeological Institute of America James R Wiseman Book Award: Dr Cyprian Broodbank (Institute of Archaeology)
Association for Research in Otolaryngology Order of Merit: Professor David Kemp (Institute of Laryngology & Otology)
Aventis Prizes for Science Books General Prize: Professor Chris McManus (Psychology)
Barbie Prize Judge: Ms Jo Volley (Slade School)
British Academy 2002/2003 Social Sciences Vice-President: Professor Hazel Glenn (Laws)
British Blood Transfusion Society James Blundell Award: Professor Charles Rodeck (Obstetrics & Gynaecology)
Council of Europe's Commission for Democracy Vice-President of the Venice Commission: Professor Jeffrey Jowell (Laws)
European Association of Oral Medicine President: Professor Crispian Scully (Eastman Dental Institute)
Germany Knight Commander of the Order of the Merit with Star: Professor Basil Markesinis (Laws)
Graduate Inter-University Poster Competition Ms Laura von Hertzen (Wolfson Institute)
Graduate School Poster Competition Arts & Humanities, Laws and Social & Historical Sciences Joint Winners: Ms Anna Apostolidou (Anthropology) and Ms Philippa Patrick (Archaeology); Built Environment, Engineering and Mathematical & Physical Sciences Winner: Ms Karin Shmueli (Medical Physics & Bioengineering); Life Sciences Winner: Ms Rasha El Kassas (Biology); Clinical Sciences Winner: Ms Laura von Hertzen (Wolfson Institute)
Institut de France Grand Prix Annuel Lefoulon-Delalande: Professor Salvador Moncada (Wolfson Institute for Biomedical Research)
Institute of Medicine of the National Academy of Sciences, USA Foreign Associate Member: Professor Michael Marmot (Epidemiology & Public Health)
International Society for Bayesian Analysis 2002 DeGroot Prize: Professor Philip Dawid (Statistical Science)
Learning & Teaching Support Network E-Tutor of the Year Runner-Up: Professor Trisha Greenhalgh (Primary Care & Population Sciences)
Lightmongers Annual Education Awards Lightmongers Bursary: Miss Liz Peck (Bartlett School)
Linnean Society Fellow: Professor Janet Browne (Wellcome Trust Centre for the History of Medicine)
Medical Futures Innovations Award Overall Winner: Dr Chris Mason (Biochemical Engineering)
Medical Research Council Clinical Scientist Fellowship: Dr Jing Deng (Medical Physics & Bioengineering and Obstetrics & Gynaecology); Senior Fellowship: Dr Nick Fox (Institute of Neurology); Senior Fellowship (Renewed): Professor Dimitri Kullman (Institute of Neurology)
Moscow State Automobile & Road Engineering Institute Honorary Fellow: Professor Richard Allsop (Centre for Transport Studies)
National Institute for Clinical Excellence Non-Executive Director of the Board: Professor Leon Fine (Medicine)
Neil O'Connor Award in Developmental Disability: Miss Gaia Scerif (Institute of Child Health)
Philip Leverhulme Prize: Dr Dario Alfè (Earth Sciences)
Royal Academy of Engineering Fellow: Professor Alwyn Seeds (Electronic & Electrical Engineering)
Royal Gustavus Adolphus Academy Sweden Dag Strömbäck Prize: Professor Richard Perkins (Scandinavian Studies)
Royal Institute of British Architects Bronze President's Medal for Education in Architecture: Mr Tom Holberton (Bartlett School)
Royal Norwegian Society of Sciences & Letters Foreign Member: Professor Kathleen Burk (History)
Royal Society Fellow: Dame Bridget Ogilvie (Medical School)
Royal Society of Chemistry Award for Solid State Chemistry: Professor P F McMillan; Corday-Morgan Medal and Prize: Professor Stephen D Price (Chemistry); Liversidge Lecture and Medal: Professor Robin Clark (Chemistry); Marlow Medal: Dr Daren Caruana (Chemistry)
School of Slavonic & East European Studies Old Students Association Award: Mr Tim Elwess (SSEES)
Sir David Cuthbertson Medal: Dr Simon Eaton (Institute of Child Health)
Sir Misha Black Memorial Awards Innovation in Design Education Awards: Professor Adrian Forty (Bartlett School)
Université de Louvain, Belgium Doctorat Honoris Causa: Professor Annette Karmiloff-Smith (Institute of Child Health)
University of Antwerp Honorary Doctorate: Professor Geoffrey Burnstock (Anatomy & Developmental Biology)
University of Rome II Honorary Doctorate: Professor Herwig Maehler (Greek & Latin)
US National Academy of Engineering Foreign Associate: Professor Ken Ives (Civil & Environmental Engineering)
Waterstone's Excellence and Achievement Award London Student of the Year: Ms Sarah-Louise Benjamin (French)
Wellcome Trust Biomedical Image Award: Dr Alan Boyde (Anatomy & Developmental Biology)
Windrush Achievement Award Professional Achievement Award: Professor Alimuddin Zumla (Centre for Infectious Diseases & International Health)
Zonta International Amelia Earhart Fellowship: Ms Sima Adhya (Geomatic Engineering)

Supporting UCL

UCL pays tribute to those individuals and organisations who have made substantial financial contributions in support of its research and teaching.

Major gifts and pledges in 2002/2003

£1 million and more

The Heritage Lottery Fund, for the Panopticon
The Wolfson Foundation, for the Wolfson Centre of Medical Physics & Biomedical Engineering

£200,000 and more

Benfield Group, for the Benfield Hazard Research Centre, Department of Earth Sciences
The Clothworkers' Foundation, for the Tissue Engineering Centre and medical physics equipment
Ensis Ltd, for the Ensis Trust Fund, Department of Geography

£100,000 and more

The Clothworkers' Foundation, for the Institute of Orthopaedics
The Lloyds TSB Foundation for England and Wales, for the Crime Free Prisons Project, Jill Dando Institute of Crime Science

£25,000 and more

Amgen Ltd, for the Department of Haematology
CP Holdings Ltd, for the Department of Haematology
DePuy International, for the Department of Psychiatry & Behavioural Sciences
The Family Foundation for Academic and Scientific Research, for research in the Department of Medicine
The Follett Trust, for the Follett Scholarships, Department of Philosophy
GlaxoSmithKline, for the Department of Psychiatry & Behavioural Sciences
Dr K C Gupta, for the Institute of Neurology
The Ian Karten Charitable Trust, for the Ian Karten Scholarships Fund
KPMG, for micro-crime audits, Jill Dando Institute of Crime Science
Sir Frank Lowe and **Lowe & Partners Worldwide**, for the Lowe International Lecture Series, Bartlett School
Novartis Pharma AG, for an Alzheimer's project, Department of Psychiatry & Behavioural Sciences
The Peacock Trust, for the National Medical Laser Centre
Oliver & Nyda Prenn Foundation, for the Centre for Respiratory Research
Roche Products Ltd, for oncology research, UCL Cancer Trials Centre
Schering Health Care Ltd, for research by Professor Stephen Mackinnon, Department of Haematology
Mr David Thorpe, for the David Thorpe Retail Research Fund, Centre for Advanced Spatial Analysis
The Welton Foundation, for the International Health & Medical Education Centre

Up to £25,000

The Adint Charitable Trust (UK), for the London TB Link Project, Centre for Infectious Diseases
Agilent Technologies UK Ltd, for the departments of Computer Science, Chemical Engineering and Physics & Astronomy
Anonymous, for the Institute of Neurology
Henry Anscbacher & Co. Ltd, for the Institute of Philanthropy
BBC, for the Department of Psychiatry & Behavioural Sciences
Biotechnology General Group, for the MRC Laboratory for Molecular Biology
China Electricity Finance Ltd, for the J J Sylvester Scholarship Fund
Sir Trevor Chinn, for the UCL Israel Scholarship
CP Holdings, for the Faculty of Laws
Credit Suisse First Boston, for the Department of Computer Science
Mr William Dietel, for the Institute of Philanthropy
ECM Selection Ltd, for the Department of Computer Science
ICM Direct, for an Alzheimer's project, Department of Psychiatry & Behavioural Sciences
The Joukowsky Family Foundation, for a scholarship, Institute of Archaeology
Robert Kiln Charitable Trust, for the Institute of Archaeology
Lee Associates, for the Bartlett School Summer Show
London Business School, for student scholarships
Dr Andrew McCance, for the Department of Medical Physics & Bioengineering
Mercer's Company Charities, for the SLARSI Project, Implanted Devices Group
G M Morrison Charitable Trust, for the Phoenix Appeal (Plastic Surgery)
Neoworks, for the Department of Computer Science
NTT Network Innovations Laboratories, for the Optical Networks Unit, Department of Electronic & Electrical Engineering
Rathbone Trust Company Ltd, for UCL's greatest needs
J H Ritblat Charitable Trust, for the Department of Hebrew & Jewish Studies
St Paul Management Ltd, for the Department of Space & Climate Physics
The Steven H and Alida Brill Scheuer Foundation, for the Department of Hebrew & Jewish Studies
Dr Michael Shipley, for the Department of Psychiatry & Behavioural Sciences
Mr Brian Smouha, for the Institute of Philanthropy
Mrs Dorothy Stephens, for the Department of Physiology
UBS Warburg, for the 9th International Mathematics Competition
The Worshipful Company of Grocers, for undergraduate scholarships in the Bartlett School and Slade School of Fine Art

Legacies received

The late Mr Anthony Caldicott, for UCL's greatest needs
The late Dr John Dunn, for UCL's greatest needs
The late Professor John Hawkes, for the John Hawkes Scholarships for Pure Mathematics, Department of Mathematics
The late Professor Kenneth Kemp, for the Department of Civil Engineering
The late Mrs Evelyn Kryszek, for the Stanislawa Kryszek Award, Institute of Archaeology
The late Mr Rene Quinault, for the Friends' Trust
The late Mr William Richardson, for the Faculty of Laws
The late Sir James Sutherland, for the Faculty of Arts & Humanities
The late Professor Elizabeth Wilkinson, for UCL's greatest needs
The late Mrs Theodora Winsten, for the Theodora Winsten Memorial Fund

The UCL Friends Programme

In addition to the major gifts and pledges recorded here, thousands of UCL alumni, and current and former staff, give their support through the UCL Friends Programme. In 2002/2003, more alumni than ever before contributed; their generosity enabled the funding of 23 projects with a total of £228,671.

With the help of its supporters, UCL is investing in facilities fit for the finest research and teaching in decades to come.

Funding based on research excellence and volume from the Joint Infrastructure Fund (JIF) and the Science Research Investment Fund (SRIF) has enabled UCL to commence its biggest-ever building and refurbishment programme. With the addition of required matching funds, JIF and SRIF are allowing the university to invest more than £250 million in state-of-the-art infrastructure for leading-edge research and teaching programmes. Further investment by the university is further enhancing buildings and facilities for staff and students worthy of UCL's reputation as one of the world's leading universities.

Projects completed

Chemistry – refurbishment in the Christopher Ingold Building
Earth Sciences – refurbishment in the Kathleen Lonsdale Building
Micro Biochemical Engineering – refurbishment and new mezzanine floor in the Engineering Building
Neurology – replacement magnetic-resonance imaging equipment
Ophthalmology – extension
Post-Genomic Virology – refurbishment in the Windeyer Building

Projects under construction

Auditory Research – new building and refurbishment at the Institute of Laryngology & Otology
Cellular & Molecular Neuroscience – new building in the South Quad
Cellular Research – refurbishment in the Darwin Building
Child Health – two phases of refurbishment
Engineering Sciences, including Computer Science and Medical Physics & Bioengineering – extension of the Engineering Building
Nanotechnology – new building on Gordon Street
New Student Accommodation – at Langton Close

Future projects

Additional Student Accommodation and a Day Nursery – new building adjacent to Ramsay Hall
Anthropology – new accommodation in Taviton Street
Institute of Cancer Sciences and UCL Medical School – new building and refurbishment of the former Rockefeller Nurses' Home
Chemical Engineering and Biochemical Engineering – improvement of facilities
Child Health – rooftop extension and refurbishment for new research facilities
Darwin Building – refurbishment
Examination and Meeting Facilities – at 1–19 Torrington Place
Fine Art – improvements to the Slade School
Ambrose Fleming Lecture Theatre – reconfiguration and refurbishment
Geography and Three Research Institutes – adaptations to and refurbishment of the Pearson Building
Information Systems – relocation and expansion of facilities and equipment
Materials Chemistry – facilities in the Christopher Ingold Building
Molecular & Cellular Neuroscience – refurbishment in the Anatomy and Medical Sciences buildings
Neurology – new development at Queen Square
Panopticon – new cultural centre on Gordon Street
Physics & Astronomy – improvement of facilities
Physiology and Pharmacology – refurbishment of facilities in the Medical Sciences Building
Slavonic & East European Studies – new building in Taviton Street and refurbishment of part of the former University of London Examination Halls

Top Molecular & Cellular Neuroscience

Middle Nanotechnology

Left Engineering Sciences

Financial Information

UCL's annual income has grown by almost 30% in the last five years. The largest component of this income remains research grants and contracts.

UCL's annual income has grown by almost £100 million in the last five years. UCL is currently spending in excess of £250 million on a capital programme supporting health, social and technological research.

A copy of UCL's *Reports and Financial Statements for the Year Ended 31 July 2003* is available on request from UCL's Director of Finance.

2002/2003 income

	£'000
Research grants and contracts	159,779
Funding council grants	131,847
Other operating income	92,694
Academic fees and support grants	69,695
Endowment income and interest receivable	3,914
Total	**457,929**

2002/2003 expenditure

	£'000
Staff costs	286,760
Other operating expenses	137,283
Depreciation	26,139
Interest payable	7,274
Total	**457,456**

2002/2003 research grants and contracts

	£'000
UK based charities	75,958
OST research councils	47,193
UK central government, local/health authorities, hospitals	11,234
UK industry, commerce and public corporations	9,524
EU government bodies	8,205
Other overseas	6,132
EU other	1,441
Other sources	92
Total	**159,779**

Contacting UCL

Join the many current and former students and staff, friends, businesses, funding councils and agencies, governments, foundations, trusts and charities that are involved with UCL.

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