

The background of the entire page is a microscopic view of a blue fiber mesh. The fibers are thin and intersect to form a grid of small white diamond-shaped openings. The perspective is slightly angled, giving a three-dimensional effect.

**The University of Sheffield**

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ANNUAL REPORT 2003/04

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*Front Cover:* The research work of Professor Tim Birkhead and Professor Tony Cullis is brought together in a montage showing the flight feather of a zebra finch (top) and columns of atoms in indium antimonide. Professors Birkhead and Cullis were elected Fellows of the Royal Society in 2004 (page 10).

Edited by Roger Allum, Public Relations Office.  
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# Chairman's Foreword

This Annual Report highlights the achievements of the University in a year that Royal Assent was given to the Higher Education Bill. In today's political climate the Bill was seen as the universities' only opportunity of securing additional funding. Its passage through Parliament owed much to those who championed its cause in the public arena, notably our own Vice-Chancellor.

At the heart of all our endeavours is the pursuit of high quality teaching and research, and our success in this area has been recognised by independent external agencies. An Institutional Audit of the student learning experience at Sheffield placed the University in the top category. Our research performance has been no less impressive, with income from research grants and contracts showing a healthy increase over the previous year, in what is always a fiercely competitive market-place.

Our estates strategy is designed to create world-class facilities to underpin our teaching and research endeavours. In the past year, two major refurbishment projects were completed, both of which were generously sponsored by the Wellcome Trust: the £27.2 million programme at Firth Court for the Departments of Biomedical Science and Molecular Biology & Biotechnology, and the £12.2 million project in the Medical School to create the Henry Wellcome Laboratories for Medical Research. The new £3.1 million University Health Centre

reinforces our commitment to support fully the health care needs of our students, while the opening of the Advanced Manufacturing Research Centre, in partnership with the Boeing Corporation, is an important contribution to evolving manufacturing technology and a stimulus to regional economic development.

The Council is charged with responsibility for ensuring that the University is in sound financial health, and I am pleased to report that an adequate surplus was generated and that the balance sheet again showed a healthy position at the year-end.

I should like to place on record my appreciation of the Vice-Chancellor and his management team. With a massive workload, which includes many major developments in research and teaching, the academic and residential estates, a new salary structure, significant commercial initiatives and an increasing emphasis on alumni and fundraising activities, the team is constantly working at full stretch. They have taken the University forward in a very positive way in this session.

I would also like to acknowledge the contributions made by my fellow Council members who give much time, in addition to their governance responsibilities, to providing valuable support to the University in numerous other ways. In particular, I would like to acknowledge the contribution of Dr Stuart Johnson, both as a Council



member and as a former Treasurer of the University.

I shall be standing down as Chairman of the Council in July next year, after eight years in that position and nearly 40 years as a Council member. It is a privilege to have been involved in such a lively and worthwhile enterprise for so long. The size of the student body, the research programme, the estate, and the impact made by the University in this country and overseas have changed beyond recognition in this time.

I owe an enormous amount to many lay and professional colleagues – I have learnt much, greatly enjoyed the experience and, hopefully, contributed a little to the University's ability to develop further its leading position in higher education as it enters its second century.

Peter Lee, CBE, MA, DL  
Chairman of the Council  
and Senior Pro-Chancellor



## Vice-Chancellor's Introduction

One issue dominated all other considerations in the higher education sector in 2003/04, and that was the parliamentary debate on the Higher Education Bill. The provision in the Bill for universities to charge variable fees up to £3,000 had been previously discussed and supported in principle by the University Council, and now that the Bill has received its Royal Assent we can begin to make our future plans with a greater degree of certainty.

The removal of the up-front fixed fee means that no student, or their family, has to pay the tuition fee before entering higher education. The repayment proposals are also fair, with both a higher threshold before repayments begin and lower monthly repayment rates. State support for poorer students will ensure that none will be worse off financially, and University bursaries – drawn from the new fees income – will mean that they are in fact better off. Most importantly, the additional income will help the university system in this country to create facilities that begin to approach those of our competitors in North America and elsewhere.

Even without this additional income, the University's research performance has been outstanding this year. The value of new grants and contracts is nearly 30 per cent higher than last year's figure, with major awards being

won by research groupings right across the institution. A pleasing indicator of our research standing is the number of chairs that are filled by existing chair-holders who seek to transfer to Sheffield from other leading research universities; this year, 50 per cent of our new professorial appointments fell into this category.

Another positive indicator of the quality of our research is the large number of prestige awards made to our staff by learned societies and educational trusts. Most notable this year was the election of Professors Tim Birkhead and Tony Cullis as Fellows of the Royal Society. We also greatly value the contribution our PhD students make to the University's research culture and performance. During the past five years our full-time PhD student population has increased by 44 per cent, and the University now has the sixth highest number of postgraduate research students in the UK.

The quality of the student learning experience is also a high priority in the University, as evidenced by the outcome of the Institutional Audit, conducted in November 2003 (with

accompanying audit trails into five departments). The Audit, which has replaced Subject Reviews as the main teaching quality indicator, delivered a very positive outcome, placing the University in the best of the three

**"THE VALUE OF NEW GRANTS AND CONTRACTS IS NEARLY 30 PER CENT HIGHER THAN LAST YEAR'S FIGURE, WITH MAJOR AWARDS BEING WON BY RESEARCH GROUPINGS RIGHT ACROSS THE INSTITUTION."**

categories by expressing "broad confidence" in the standards and quality of our teaching and learning provision.

Our dynamic estates strategy is designed to underpin our research and teaching strengths, and this year has seen the completion of a £52 million programme of laboratory refurbishment and new build that will stand the University in good stead for many years to come. The University also has a new Health Centre that will be the envy of many other institutions. It provides clear evidence of our continuing resolve to address the needs of our most important customers, our students. In this project, as in all the others completed this year, we should acknowledge the professional input of our Facilities Management staff. There will be no time for quiet contemplation, however, as we look forward to the start of a major building programme that includes a new Learning Resource Centre and further state-of-the-art research laboratories in the Royal Hallamshire Hospital.

The government's Lambert Report highlighted the importance of business-university collaboration, and in the past year we have consolidated our partnerships with two global companies. Our fourth University Technology agreement with Rolls-Royce is matched only by Cambridge, while our Advanced Manufacturing Research Centre with Boeing moved into smart new premises at the Waverley site.

The University is a committed partner in regional initiatives and we were proud to be part of the White Rose Consortium (Leeds, Sheffield and York universities) which, together

with Sheffield Hallam University, won the competition to host the new National Science Learning Centre. The Centre will be based at York, while the Yorkshire Regional Centre will be hosted by Sheffield Hallam University. This £50 million initiative will transform the quality of teachers' professional development and provide them with access to the latest scientific thinking.

Our schoolteachers have a crucial role to play in the economic health of the nation by encouraging their pupils to become interested in science and technology. For our part, we will continue to respond to the needs of the teaching profession and to work alongside our colleagues at Sheffield Hallam University in delivering what has become the largest regional programme for National Science Week. Further national recognition of our commitment to promoting the understanding of science to a wide audience is the appointment of

Professor Noel Sharkey as the second EPSRC Senior Media Fellow: Professor Tony Ryan was the first!

As the University prepares to celebrate its centenary in 2005 it does so in sound heart, as the pages of this *Annual Report* testify. Our success is manifestly a team effort – inspiring staff, enterprising students, supportive lay members and generous alumni – and I am privileged to be leading such a dedicated team.



Professor Bob Boucher, CBE

The Vice-Chancellor and Students' Union President Dan Mitchell sign up to the five goals required to gain accreditation as a Fairtrade university.





# Financial Review

## Treasurer's Report

“THE UNIVERSITY HAS CONTINUED TO COMMIT TO A GROWTH STRATEGY DURING THE PERIOD, REFLECTED IN BOTH THE EXTENSIVE CAPITAL PROGRAMME AND THE STAFFING LEVELS, TO UNDERPIN ITS POSITION AS A LEADING INSTITUTION OF HIGHER EDUCATION.”

The results for the year show a historical cost surplus of £5.8m, compared with £3.4m in the previous year, which is good progress towards our financial strategy target surplus of 3% of turnover.

The University has continued to commit to a growth strategy during the period, reflected in both the extensive capital programme and the staffing levels, to underpin its position as a leading institution of higher education. This is emphasised by the University's intent to position itself as a university of choice, following the introduction of variable tuition fees, and will require investment in the research, teaching and support infrastructure and a commitment to additional recurrent expenditure on student support.

The extensive Capital Programme continues to have a significant impact, with expenditure of £40.4m during the year. In order to support this level of expenditure, an initial drawdown of £15m was made from a Revolving Credit Facility of £30m, arranged during the year to provide the University with optimum flexibility in relation to its liquidity and capital requirements.

Total income increased by 8.7% over the previous year to £284m, with expenditure rising by 8.3% to £282m. Grant income from the Higher Education Funding Council for England (HEFCE) rose by 7%.

The increase above the standard HEFCE inflation factor (GDP deflator) of 2.25% reflects the increased funding for research, due to our improved performance in the Research Assessment Exercise (£4.3m), the impact of additional funded student numbers (£800k) and the increase in the impact of special initiatives (£1m), such as Rewarding and Developing Staff. However, these improvements were offset by a significant reduction in the teaching element (£2.2m), due to changes in the methodology for funding widening access.

Income from tuition fees increased during the year by approximately 8% and exceeded target on both home postgraduate and overseas students. Overseas students' fees now total £25.3m and represent a critical, if potentially volatile, income stream.

Income from research grants and contracts increased by 11.1% to £70.9m, in line with expectations. Of particular note was the increase in income from European funded research grants to £5.2m, a rise of 19.3% during the period. This outcome endorses the University's decision to establish the Framework 6 Office to support this growing and increasingly complex activity.

Staff costs increased by 8.9% to £167m. This may be compared to the inherent escalator of 2.25% on HEFCE-funded activities, reflecting

the underlying growth in our cost base, which arises from both the growth strategy and general wage inflation.

The rating agency, Standard and Poor's, confirmed the University's long-term credit rating of AA-/stable, despite concerns about the deficit in the University of Sheffield Pension Scheme and the complex capital programme. As in 2002/03, the outcome reflects the University's strong reputation and diverse course range, coupled with continued high student demand and financial resilience.

The past year has seen the University make steady progress

towards achieving its academic and financial strategy targets. However, the level of commitments on the capital programme continues to place the cash flow under pressure, as reflected by the drawings made on the new Revolving Credit Facility.

The introduction of variable tuition fees, while generally good news for the sector and the University, will result in increased pressure to improve the teaching and related support facilities. This was already being partially addressed by the new Learning Resources Centre project, but it also implies substantial investment in other out-dated teaching facilities, equipment and IT infrastructure.

As the full level of new variable tuition fees will not be received until 2008/09, these requirements are placing further pressure on our financial resources.

In order to ensure full migration towards the financial strategy target surplus in 2004/05, the University needs to achieve a substantial uplift from this year's results.



**Kim Staniforth**, BA, FCA  
University Treasurer

(The full version of the Treasurer's Report can be found in the *Financial Statements 2003/04*.)

## Consolidated Income and Expenditure Account for the Year Ended 31 July 2004

	Year Ended 31 July 2004		Year Ended 31 July 2003	
	£000	%	£000	%
<b>INCOME</b>				
Funding Council Grants	93,393	32.8	87,341	33.3
Tuition Fees and Education Contracts	71,102	25.0	66,032	25.2
Research Grants and Contracts	70,855	24.9	63,803	24.4
Other Income	46,762	16.5	42,046	16.1
Endowment and Investment Income	2,311	0.8	2,513	1.0
<b>Total Income</b>	<b>284,423</b>	<b>100</b>	<b>261,735</b>	<b>100.0</b>
<b>EXPENDITURE</b>				
Staff Costs	167,112	59.3	153,475	59.0
Other Operating Costs	94,341	33.4	92,063	35.4
Depreciation	16,164	5.7	10,258	3.9
Interest Payable	4,399	1.6	4,546	1.7
<b>Total Expenditure</b>	<b>282,016</b>	<b>100</b>	<b>260,342</b>	<b>100.0</b>
Surplus/(Deficits) of Joint Ventures & Associates	128		(98)	
Taxation	(5)		14	
Minority Interests	64		88	
Transfer to accumulated income within specific endowments	(252)		(260)	
Profit on Disposal of Assets	38		61	
Historical Cost Depreciation Adjustment	3,181		2,198	
Realisation of Property Revaluation Gains of Previous Years	226		43	
Historical Cost Surplus After Tax and Minority Interests	5,787		3,439	

# Investing in the Estate

THE UNIVERSITY'S ESTATES STRATEGY HAS DELIVERED A MAJOR PROGRAMME OF REFURBISHMENT IN KEY RESEARCH LABORATORIES, A NEW BUILDING FOR THE ADVANCED MANUFACTURING RESEARCH CENTRE (PAGE 21) AND STATE-OF-THE-ART PREMISES FOR THE UNIVERSITY HEALTH CENTRE.

## University Health Centre

A striking new three-storey building housing the University's Health Centre was completed in September 2004, on the corner of Gell Street and Glossop Road. The £3.1 million project makes maximum use of natural daylight in its design and incorporates a pharmacy at street level.

Patients can now make appointments on-line and use an electronic check-in system on arrival. There is a spacious reception foyer on the ground floor, together with an interview room, administrative offices and a records room. The clinical area includes 20 consulting rooms and a minor operations suite. The building also houses a meeting room, staff common room, and additional office space on the top floor.

Designed by CPMG Architects of Nottingham, the Health Centre has been funded by the University, which will recover the cost through the National Health Service.

The University Health Centre, viewed from Glossop Road. The Centre had occupied its former premises at Claremont Place since 1965.

## Refurbished research laboratories

Building projects worth £52 million were completed during the session 2003/04, aimed at providing the University with state-of-the-art research laboratories in the biologies, medicine and the physical sciences.

The refurbishment programme in the Departments of Biomedical Science and Molecular Biology & Biotechnology was funded by a grant of £23.6 million from the Joint Infrastructure Fund (financed by the Wellcome Trust, the Higher Education Funding Council for England, and the Department of Trade and Industry), to which were added further grants of £7.6 million from the Wolfson Foundation, the Royal Society and the University of Sheffield. Within this total sum, £5 million was earmarked for the construction of the Florey Building.

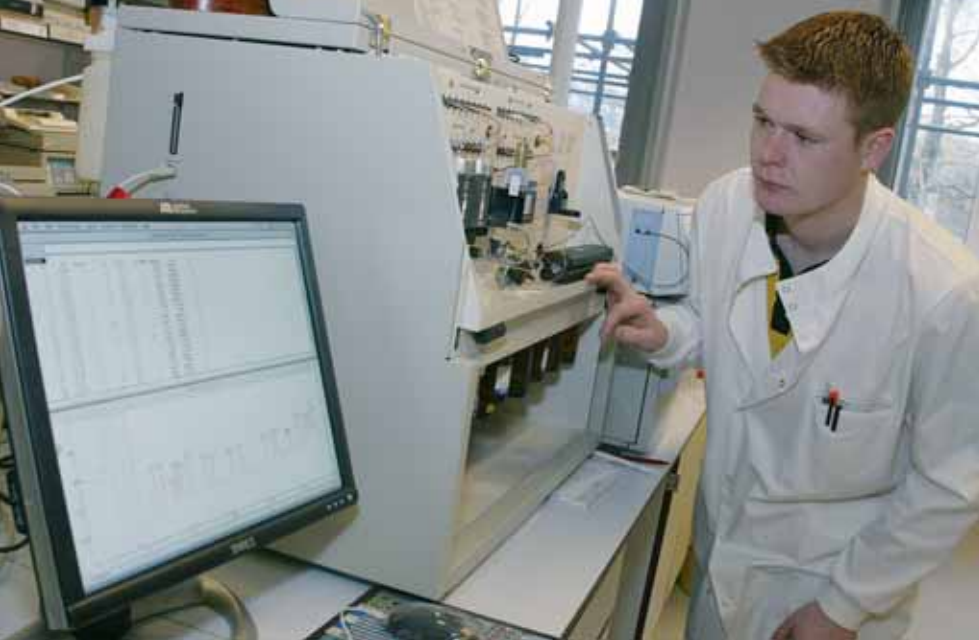
The University's reputation in the field of nuclear magnetic resonance (NMR) spectroscopy has been enhanced by the opening of a dedicated NMR suite in Firth Court, funded by a grant from HEFCE's Science Research Infrastructure Fund. This facility in the Department of



Prince Philip observing the behaviour in living cells of a single protein associated with muscular dystrophy.

**ROYAL OPENING.** HRH Prince Philip visited the Department of Biomedical Science on 29 October 2004, when he made a tour of the refurbished laboratories and met research students and staff working on the molecular and genetic mechanisms underlying body organ development and function. During his visit, Prince Philip dedicated the new building in the Firth Court quadrangle to the memory of the Nobel Laureate Howard Florey, who spent the early part of his career in the Sheffield Medical School as Professor of Pathology.





A research student in the Department of Molecular Biology and Biotechnology determining the amino acid sequence of a protein.



A protein sample being placed in the new £2 million 800MHz spectrometer, in order to determine its structure.

Molecular Biology and Biotechnology includes four NMR spectrometers, which are used for studying prions (the causative agents of BSE and CJD), and how amyloid proteins form the plaques seen in Alzheimer's and other neurodegenerative diseases.

In the Department of Animal and Plant Sciences, SRIF funding of £3.1 million has led to the provision of new facilities to support the application of the latest molecular and genetic methods in ecology and evolutionary biology. The refurbished laboratories are also home to the Sheffield Molecular Genetics Facility, funded by the Natural Environment Research Council.



Four floors of the Medical School building have been refurbished to provide modern research laboratories for multidisciplinary teams working in the fields of neuroscience, infection and immunity, cancer, cardiovascular disease, bone biology, pathology and molecular genetics. The Henry Wellcome Laboratories for Medical Research were funded by a grant of £12.2 million from the Wellcome Trust and include a validated category III facility for infectious and contagious diseases work.

The Sheffield Institute for Studies on Ageing is a leading centre for research into the wellbeing of older people. Its work in this area has been enhanced by the opening of additional premises at the Elmfield site on Northumberland Road. These new facilities will provide a focus for research on health and social policy aspects of ageing and act as a hub for new developments in cross-disciplinary research.

A major programme of investment in facilities to support nanotechnology research is under way in the University,

[Dr Mark Walport, Director of the Wellcome Trust, at the opening of the Henry Wellcome Laboratories for Medical Research in November 2004.](#)

and the latest manifestation of this is a suite of laboratories in the Department of Physics and Astronomy, funded by the Wolfson Foundation and the SRIF scheme. The laboratories, opened by Dame Julia Higgins in October 2004, will facilitate the development of new light-emitting devices – such as lasers and light emitting – diodes, for applications in telecommunications, environmental monitoring and health care.

### Student Residences Strategy

In June 2004 the University Council approved the revised Student Residences Strategy, which is designed to provide modern, desirable accommodation for students, respectful of the needs of the local community. The strategy involves the sale of University properties in traditionally residential areas and their return to private family use; the provision of new student accommodation at the Endcliffe, Ranmoor, Stephenson and Crewe sites; and collaboration with private developers to offer attractive student accommodation in the city centre.

A planning application for the proposed development was submitted in October 2004, following a wide-ranging public consultation exercise.

# The Dividend of Research

THE UNIVERSITY HAS AN INTERNATIONAL REPUTATION FOR THE QUALITY OF ITS RESEARCH, WHICH LEADS TO THE AWARD OF MAJOR GRANTS ACROSS ALL ITS FIELDS OF ACADEMIC ENDEAVOUR.

## Research awards

In the session under review, research awards totalling £92 million were made to staff, an increase of 28 per cent over last year's figure. The competition for these grants is intense and the positive outcome reinforces the University's status as a major research-led institution.

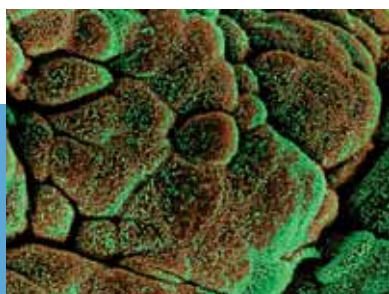
Included in this sum are a number of large grants that reflect the University's strength in key fields of

activity, as well as its tradition of engaging in collaborative research with groups based in the UK and overseas. A selection of these new grant awards, representing each of the seven faculties, is given below.

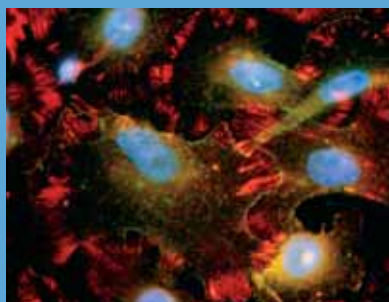
Within the Medical School, Professor Rob Coleman received £5 million from the pharmaceutical company Novartis to run a multinational clinical trial to establish whether the drug Zometa (zoledronic acid) prevents the spread of breast cancer to the bones. Zoledronic acid is already used in the treatment of

osteoporosis. Professor Claire Lewis' research group is collaborating with colleagues in Oxford, Leeds and Nottingham in a £2.3 million e-science grant award from the EPSRC, aimed at generating complex, integrated biomathematical and computer models (based on real tumour data) to optimise the effects of new anti-cancer drugs *in vivo*.

Sheffield's status as a national centre for stem cell research was confirmed during the session when grants totalling £3.1 million were made to Professors Peter Andrews and Harry Moore by the UK Research Councils and the Juvenile Diabetes Research Foundation in New York. Included in this sum is an award of almost



Urinary bladder lining, formed of highly folded epithelial cells (brown) which have tiny plaques (green dots) on their surface. The plaques and folds enable the bladder to accommodate large changes in surface area. (Science Photo Library)



**COMPUTATIONAL BIOLOGY.** The ability to mathematically model biological systems and predict how molecules, cells or even whole organisms will behave under specific conditions is one of the key intellectual goals in the 21st century. The University of Sheffield has considerable expertise in the field of computational biology, and the award of a grant of £1.6 million by the EPSRC will support a programme of research aimed at understanding how individual cells interact and 'self-assemble' to become a particular tissue or organ. The multidisciplinary team is led by Professor Rod Smallwood (Computer Science) and also involves the University of York. The researchers will be concentrating on

epithelial tissues because they are relatively simple and have no blood vessels, but nevertheless exhibit a number of important clinical problems, such as defective wound healing and the development of malignancy.

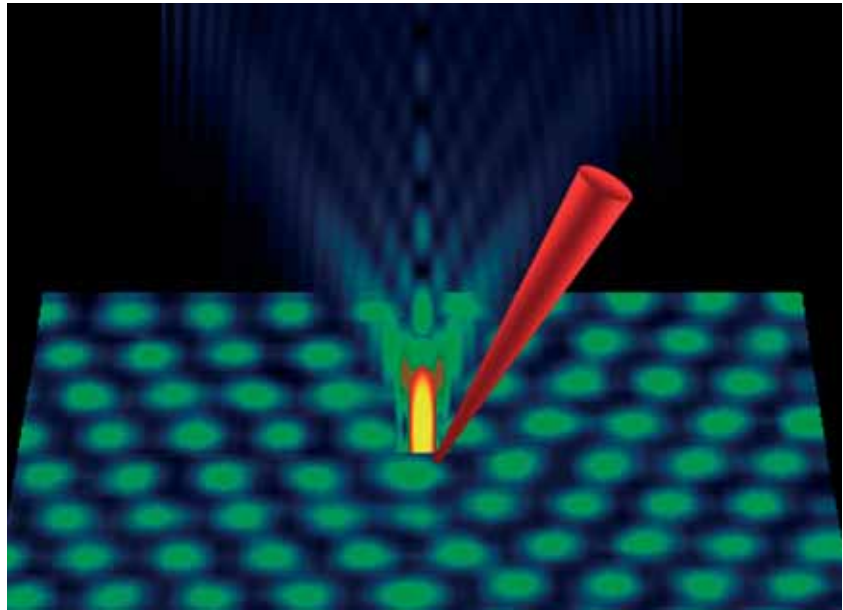
Following a successful funding application to HEFCE by Professor Smallwood, a powerful new computer cluster was installed in the Royal Hallamshire Hospital in June 2004. It will enable the researchers to use real patient data to produce computational models that can test a variety of hypotheses, without the need to perform difficult and expensive experiments in the laboratory.

Keratinocyte skin cells, showing nuclei (blue), phosphotyrosine proteins (green) which are the precursors of melanin, and another protein, vinculin (red) found in dividing cells. (Science Photo Library)

£1 million for the University to establish a Human Embryonic Stem Cell Resource Centre, to provide support for UK researchers working in this field.

The Research Councils' Basic Technology Research Programme supports the development of promising fundamental technologies, and the University has gained two of these competitive awards. Professor Nigel Allinson is leading a consortium of UK universities in a £4.5 million project to exploit the potential of new-generation imaging devices – called Active Pixel Sensors – that can focus right down to individual pixels. APS devices have important scientific and medical applications, including instant analysis of medical screening tests and early detection of cancer.

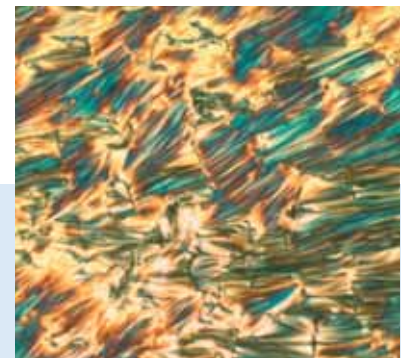
The second Basic Technology award involves four University departments, led by Engineering Materials, the University of Nottingham and Sheffield Hallam University in a project that will lead to the establishment of a 'Nanolab' in the University. The researchers will be combining advanced



nanorobotics technologies with high resolution imaging techniques, leading to an ability to manipulate matter right down to the level of individual atoms.

Nanomanipulation of atoms, using electron (yellow) and mechanical (red) probes.

Professor David Lerner (Civil and Structural Engineering) is leading a £1.9 million EPSRC programme aimed at developing technical solutions and tools for restoring brownfield land in urban areas, particularly the challenging and low-value sites. The multidisciplinary team includes colleagues from two other University departments and researchers from eight other institutions.

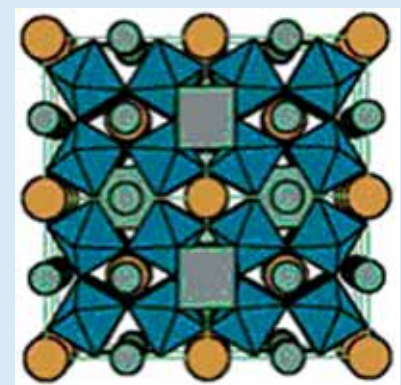


Above: Crystal structure of a material investigated in the laboratory for its potential use in capacitors.

**CERAMICS AND COMPOSITES LABORATORY.** Researchers in the Department of Engineering Materials have received a prestigious Portfolio Partnership grant of £6 million from the Engineering and Physical Sciences Research Council to establish a Ceramics and Composites Laboratory. The new Partnerships scheme is designed to provide long-term support for leading research groups in the UK with a proven track record of attracting large grants.

The research group, which has also gained significant industrial sponsorship, contains nine principal investigators with expertise in ceramics, glass, polymers and composites. They will be developing new properties and applications for these materials, in areas such as cutting tools produced from ultra-sharp ceramics; polymer coatings that make buildings, aircraft and other structures invisible to radar; and novel ceramics for microwave telecommunication devices. In addition, existing materials will be modified, combined and put to new uses – for example, by putting optical fibres into polymer composites to make infrared sensors for the aerospace industry.

*Right:* Polymer electrolytes such as this are being developed by the Laboratory as a more compact, lighter and safer alternative to the liquid electrolytes that are currently used in lithium batteries.

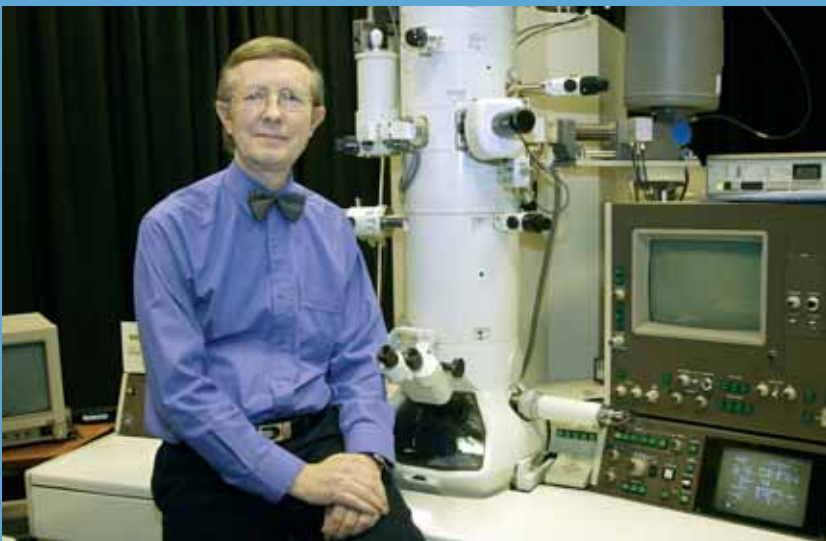




**ROYAL SOCIETY ACCOLADES.** Two University of Sheffield professors were elected Fellows of the Royal Society in 2004, the most prestigious award in UK science and one that dates back to 1660.

Professor Tim Birkhead (above) is distinguished for his research in behavioural ecology, particularly for his field and laboratory studies of breeding adaptations in birds. His research has built on an extension of Darwin's idea of sexual selection, by establishing the factors that determine reproductive success after mating has occurred – this field is referred to as sperm competition. Professor Birkhead has established the rules that determine male fertilisation success when females mate promiscuously.

Professor Tony Cullis (below) is a leading authority on the microscopic structure and behaviour of semiconducting materials. His research, which analyses materials right down to their atomic components, is concerned with the development of state-of-the-art semiconductor layers that can operate at high temperatures or at high frequencies. Common uses for semiconductors working at high frequencies include new generation mobile phones and satellite communications.



Twelve European countries are collaborating in a four-year research project aimed at promoting long-term co-ordination of national research programmes investigating the impact of ageing populations, one of the key issues facing society today. Led by Professor Alan Walker in the Department of Sociological Studies, ERA-AGE (European Research Area in Ageing) has received funding of £1 million from the European Commission under its Framework 6 Programme.

The Arts and Humanities Research Board has awarded Professor Dominic Shellard (English Literature) a grant of £332,000 to investigate the evolution of the British Theatre since 1945, by researching its extensive archives, which include material on performers such as Olivier, Gielgud and Richardson; and by compiling an oral history resource of performers and theatregoers who participated in the British Theatre between 1945 and 1968. The third strand of the project involves the researchers helping the British Library complete its collection of scripts of new works performed in licensed venues since 1968.

In another AHRB initiative, the University is a partner institution in the Board's new Centre for the History and Analysis of Recorded Music, led by Royal Holloway College, London. As part of this project, Professor Eric Clarke has received a grant of £117,000.

Supported by a grant of £58,000 from the Economic and Social Research Council, Professor Simon



Left to right: Francisco Munoz, Sergio Ripoll, Paul Bahn and Paul Pettitt.

**ICE-AGE ART.** Several dozen carvings on the roof of Church Hole Cave at Creswell Crags in Nottinghamshire have been discovered, forming one of the most elaborate cave art ceilings in the world. The carvings are believed to be around 13,000 years old. Dr Paul Pettitt from the Department of Archaeology made the significant find with two colleagues, cave experts Dr Paul Bahn and Dr Sergio Ripoll.

As a step towards solving the riddle of missing cave-art from Britain, Creswell was chosen as the first site for investigation, because it was a cave occupied by sophisticated hunter-gatherers who hunted horse, red deer, bison, wild cattle and reindeer.

Following the discovery of wall engravings, sadly vandalised by 20th century graffiti, a



Church Hole Cave, Creswell. The stag panel. Engravings of reindeer stag, incomplete horses and other animals.

subsequent routine visit was made to the cave. In the early morning light, which reflected brilliantly on the ceiling, many richly-carved images could be seen in bas-relief, where tools had been used to rub away parts of the limestone.

Holdaway (Department of Law) has led a multidisciplinary team investigating the reasons why particular youths in Sheffield committed crime, why they were excluded from school, and why they found it difficult to gain employment.

In the Faculty of Architectural Studies, Professor Jeremy Till has been awarded funding of £130,000 by the AHRB to establish a set of design guidelines that will facilitate the construction of 'flexible housing' that is capable of adapting to the changing needs of users over time.

#### DTI Academic Fellowships

The University has secured £1 million through an institutional submission to the DTI's new Academic Fellowship Scheme. The scheme, managed by EPSRC, provides the University with

a contribution towards the costs of fellowships to assist in career progression and development of emerging researchers in the areas of interdisciplinary environmental research, medical research, arts and humanities research, and interdisciplinary engineering research.

#### Graduate Research Centre

A new venue for the research student community was opened by the Vice-Chancellor at the end of 2003. The Graduate Research Centre, based in the Graduate Research Office, includes a seminar room, IT suite and coffee lounge – facilities that are intended to augment, rather than replace existing resources available to research students in their own departments.

#### Training grants

The EPSRC has awarded the University £2.6 million to support the development and delivery of a range of collaborative training activities, including Masters Training Packages, Knowledge Transfer Partnerships, Research Assistant Industrial Secondments, and Industrial CASE Research Studentships.

A further sum of £340,000 was received from Research Councils UK as the first instalment of its additional skills training funds, to support the development and delivery of generic skills training for postgraduate research students. These funds will be used to enhance the training provided through the University's Research Training Programme, which is itself widely recognised as an example of good practice.

# Teaching and Learning

THE UNIVERSITY HAS EXHIBITED A CONSISTENTLY HIGH STANDARD IN THE QUALITY OF ITS TEACHING AND LEARNING OVER MANY YEARS; THIS TRADITION WAS MAINTAINED IN THE RECENT INSTITUTIONAL AUDIT.

## DTI Academic Fellowships

The national Quality Assurance Agency (QAA) institutional audit report on the University of Sheffield, published in May 2004, places the University in the best of the three categories used in these audits – "broad confidence" – in both its management of the quality of its academic programmes and the academic standards of its awards.

*Below left: Jane Davidson of the Music Department in rehearsal.*

*Bottom right (lower): Aircraft control simulator, Department of Automatic Control and Systems Engineering.*

*Bottom right (upper): Practical class in Molecular Biology and Biotechnology.*

The purpose of QAA institutional audits is to provide public information on the quality of the opportunities available to students, and on the academic standards of the awards offered by UK universities.

The assessors particularly commended the University for its good practice in developing skills and employability; its student support systems; and the high standard of the information it produces for the guidance of students. The audit report also commended many other achievements and procedures, including the University's outstanding record in the subject review and its collaborative relationships with partner institutions in the UK and overseas.

## Web CT

The University adopted WebCT as its preferred virtual learning environment in 1998 and from that time onwards student and staff usage has shown a considerable rise, year on year. In October 2004 there were 17,000 active student users and 1,750 staff enrolled on WebCT sites. The continuing growth in demand for on-line learning activities has led to the University becoming the first Russell Group institution to adopt WebCT Vista.

The University's commitment to the platform will enable it to support the development of a wide range of innovative approaches to enquiry – based learning from across the Arts and Social Sciences curricula and beyond, and make appropriate use of technology to enhance students' information literacy skills.



### Personal Development Record

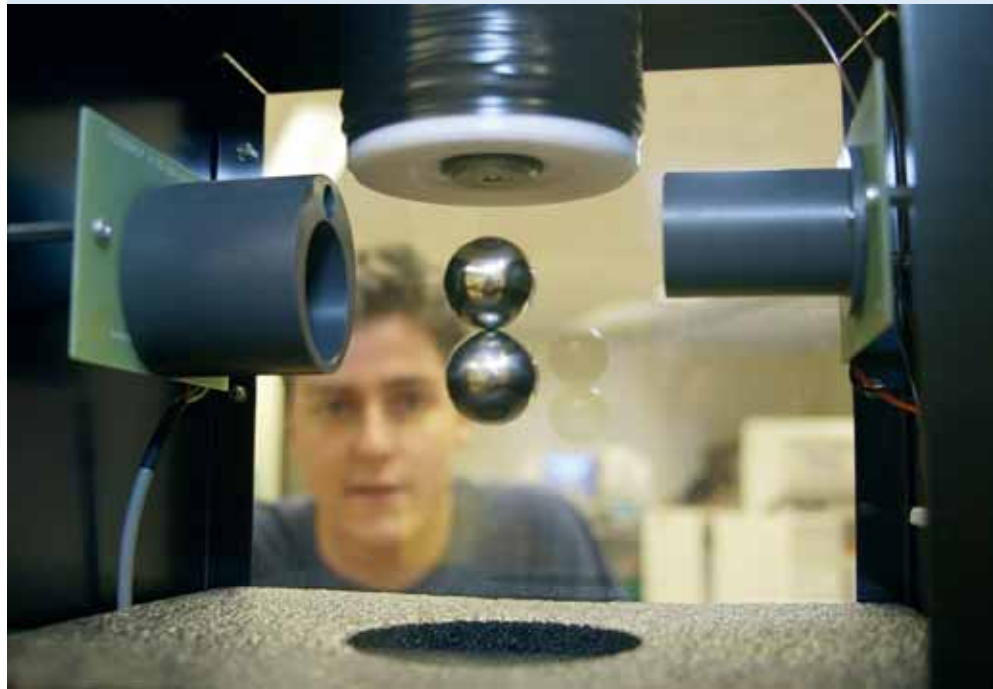
Work on the Personal Development Planning scheme has developed to the point where several departments are introducing the scheme to their Level 1 students. PDP is designed to help students get the most from their undergraduate studies by helping them to plan and reflect upon the modules they are taking and how they relate to their future aspirations. It can help students improve their study skills within the curriculum and identify opportunities for personal development outside the course. As a result of this, students will be able to set their own personal goals and work towards them, whether they are seeking employment, further study or taking time out. Students will receive help from their personal tutor in relation to their personal development record.

### Certificate in Learning and Teaching

Following a review of its Certificate in Academic Practice, the University has introduced a Certificate in Learning and Teaching, which commences in September 2004. The new Certificate is a 60-credit Master's level programme awarded by the School of Education and is compulsory for all new probationary lecturers.

### Hospitals and University co-operation

Four acute general hospitals have been awarded Associate Teaching Hospital status by the University, in recognition of their contribution and commitment to training medical students from the School of Medicine and Biomedical



Laboratory work in the Faculty of Engineering.

Sciences. The four NHS Trusts are Barnsley District General Hospital, Chesterfield and North Derbyshire Royal Hospital, Doncaster and Bassetlaw Hospitals and Rotherham District General Hospitals.

Each Trust will appoint an Associate Director of Teaching to co-ordinate the teaching in the hospital, and consultant staff who teach will receive the title of Honorary Senior Clinical Lecturer. The Associate Directors will work with the Medical School and colleagues in the Sheffield NHS Trusts to help ensure that the learning and teaching is of the highest standard and that medical graduates are optimally prepared for working as junior doctors.

The agreement formalises the strong relationship already in place with the

participating hospitals and will benefit students, tutors and patients. The associate teaching hospitals provide excellent clinical placements for doctors in training, and medical students gain an experience of a wide range of medical conditions in different, social and cultural environments.



# Widening Participation

WIDENING PARTICIPATION INITIATIVES IN THE UNIVERSITY HAVE FURTHER DEVELOPED THIS YEAR TO INCLUDE PROJECTS WITH ETHNIC MINORITY ASYLUM SEEKERS AND REFUGEES, AND A PILOT MENTORING SCHEME.

## Ethnic minorities Aimhigher project

South Yorkshire is one of the largest initial centres in the country receiving asylum seekers and refugees. The barriers preventing potential students from these groups entering further and higher education in Rotherham and Sheffield has been investigated by the University. Sponsored by Aimhigher, EMARP (Ethnic Minority Asylum Seekers and Refugees Project) was set up in order to identify the many and diverse reasons for the difficulties, and to address them in a subsequent pilot scheme.

One such barrier to entry is the negative perception of universities by a generation who came to this country and had had their professional qualifications ignored. Their children therefore tend to have a similar outlook, and efforts will be made to change this view, by University staff and students going into local community groups and working with them. The language barrier is another major obstacle, as potential students



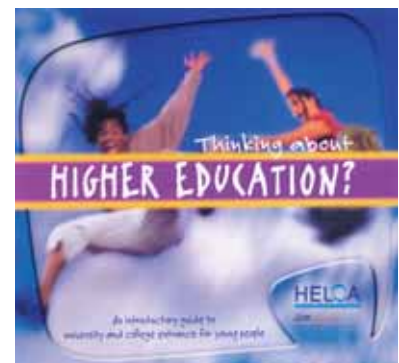
may well have adequate qualifications for a degree course, but no way of finding a route into the education system, thereby identifying a need for multilingual printed information. Similarly, the ability to finance courses through the conventional channels is made difficult by the uncertainty of status and funding.

## Doncaster mentoring scheme

Volunteer University students are taking part in a three-year pilot scheme, centred in Doncaster, for the National Mentoring Project UK. All the secondary schools are covered by the scheme, the size of which requires a co-operative effort between the universities of Sheffield, Sheffield Hallam, Hull, Huddersfield and York St John. In order to try and improve the low rate of higher education uptake, students help with course work, revision and time management. They also act as role models, raising aspiration and helping to enhance attainment levels. Starting in November 2003, thirty-five University students went into four Doncaster secondary schools over a 20-week period to work with their pupils, with the aim of improving the grades of borderline GCSE candidates.

## Outreach and access to medicine

Sheffield's Outreach and Access to Medicine Scheme (SOAMS) is now fully operational, with all five year



This introductory guide on university entry, written by University of Sheffield staff, is used nationally to support widening participation activities.

groups (Y9-Y13) currently engaging in activities. The scheme continues to develop, with the introduction of an extended summer school and the piloting of 'e-mentoring'. Some recent additions to the programme include "The NHS experience" hosted at Magna Adventure Science Park; a drugs-awareness programme; and a visit to the Thackray Medical Museum in Leeds. In addition, Education Leeds (Aimhigher) approached the University to include pupils from Leeds on the SOAMS Summer School (Y12), which further improved the quality of the experience offered to the participants.

## Professions Progression Partnership

Under the Professions Progression Partnership scheme, five ring-fenced places have been agreed in Law for Y11 students, and five in both Architecture and Accounting for pupils in Y12. This is a collaborative arrangement between the two Sheffield universities, giving the pupils a flavour of both institutions, and an opportunity to compare and contrast differing aspects of the courses and thereby make informed choices.



Lunchtime relaxation outside the Union of Students' Graves Building.

# Enterprise and Innovation

ENTERPRISE LEARNING IS NOW FIRMLY EMBEDDED IN THE UNDERGRADUATE CURRICULUM AT SHEFFIELD, SUPPORTED BY THE WHITE ROSE CENTRE FOR ENTERPRISE. UNIVERSITY ENTERPRISE ACTIVITY HAS ALSO LED TO THE DEVELOPMENT OF AN IMPORTANT HEALTH CARE PRODUCT.

## White Rose Centre for Enterprise

When the White Rose Centre for Enterprise was established in Sheffield in 1999, it set a target of 70 per cent of all science and engineering students in the three constituent universities (Leeds, Sheffield, York) to be experiencing enterprise learning by 2004. That target has been exceeded, with a 75 per cent participation rate achieved.

WRCE is a member of UK Science Enterprise Centres (UKSEC), a national association of 13 centres

involving over 60 universities and higher education institutions. UKSEC has launched an annual series of workshops aimed at providing continuing professional development to staff and showcasing examples of best practice. Enterprise Learning Managers Elena Rodriguez-Falcon and Sherry Kothari gave a well-received presentation in Belfast, entitled 'Embedding Enterprise in the Curriculum', which drew on successful case studies from academic departments at Sheffield.

## Sheffield University Enterprises Ltd

The University's wholly owned technology transfer company, SUEL (Sheffield University Enterprises Ltd), now operates a Commercial Assessment System to evaluate new business opportunities emerging from academic departments. Invitations are regularly extended to representatives of local and regional companies to attend the three-weekly meetings, and bring their experience and expertise to the decision making processes, alongside SUEL's own staff.

Farapak Ltd became the first spin-off company to emerge from the interdisciplinary Sheffield Polymer

*Below:* A patient's cells growing on a special cell-friendly surface developed in the University.

*Below right:* CellTran staff cultivating a patient's cells in a clean-room laboratory.



**SELF-HEALING BANDAGE FOR TREATING BURNS AND ULCERS.** A revolutionary biological bandage for treating patients suffering from severe burns and persistent ulcers has been developed by Professors Sheila Mac Neil (Clinical Sciences North/Engineering Materials) and Robert Short (Engineering Materials). *Myskin* was launched in 2004 by University spin-out company CellTran, and is essentially a combination of surface engineering and cell biology.

The bandage is created by taking a small tissue sample from a patient and culturing the cells in a laboratory. The cells are placed on a membrane made from a medical-grade polymer, which is then treated with a special cell-friendly coating, enabling the skin cells to attach and grow on this surface. When the cells are ready, the cell-membrane bandage is used to dress the patient's wound. Clinical studies have shown that weekly dressings of the bandage heal even the most persistent ulcers.



Centre. It provides consultancy and rapid prototyping services to a wide range of industries. Backed by funding from the Higher Education Innovation Fund, Sheffield's two universities have set up the Software Factory to act as a vehicle for taking suitable software projects out of the institutions' research laboratories and into the market place. The resulting products will be prepared to industry standards and accompanied by full technical support, training and documentation.

### Enterprise in Molecular Biology and Biotechnology

The Department of Molecular Biology and Biotechnology has long-established links with the bioindustry, and students are introduced to this sector through a structured programme of enterprise teaching running through all years of the degree courses. In the early years they learn about the constraints encountered when growing cells and manipulating biomolecules in an industrial process situation (case-study examples include fermentation technology, antibiotic production and biocatalysis). Students also take part in a business game – designed to illustrate the sorts of problems that biotechnology companies face and the decision-making process that is followed – and visit an industrial biotechnology facility. Topics covered in the later stages of the course include intellectual property (eg patents, trade marks) and regulatory legislation.



*Clockwise from top left: Emma and Ian Dodds collect their award; Mike Blackmore (left) and Mark McHutchon; Paul Thomas.*

**BUSINESS PLAN COMPETITION.** In each year of its operation, the White Rose Centre for Enterprise has organised an increasingly successful Business Plan competition, open to students from the three constituent universities. Many of the past winners have gone on to set up their own businesses. In the 2004 event, more than 500 business ideas were submitted and these were reduced down to eight finalists. As the competition progresses, WRCE provides support for the competitors through lectures and workshops, and the students have to give progressively more information about their ideas, culminating in a full-blown business plan.

This year there were two winners of the event. Sport Lived secured one of the £7,500 top prizes for Emma Dodds, an English Literature student, and her brother Ian, who is studying at Leeds. Their business plan involved setting up a sports-based company catering for students taking a gap year. The other top prize-winner was ARK Engineering, the brainchild of postgraduate research students Mike Blackmore (Engineering Materials) and Mark McHutchon (Sports Engineering), who are studying at Sheffield. Both of them are keen on mountain biking, and the enterprise component of their courses led them to think about how they might make a business out of their engineering skills, by developing high performance components for their bikes.

Another Sheffield research student, Paul Thomas (Animal and Plant Sciences), received £2,500 for his project to set up a company called Mycorrhizal Systems, to exploit his ideas for a scientific approach to farming truffles. WRCE will offer the winners a mentoring service so that they continue to get the support and advice they need to start their businesses.

# Preparing for Employment

THE CAREERS SERVICE HAS DEVELOPED A NUMBER OF NEW SERVICES TO ENSURE THAT IT IS ABLE TO MEET THE NEEDS OF AN EVER-WIDENING RANGE OF STUDENTS NOW ENTERING HIGHER EDUCATION.

## The Fairs development programme

The University enjoys a national reputation for the careers fairs that it organises, both among employers and students. The Yorkshire Autumn Graduate Recruitment Fair and the Sheffield Student Employment Fair attracted a combined total of nearly 5,000 students. Both of these events were run in collaboration with Sheffield Hallam University. All 74 employer stands for the Legal Fair were booked well in advance of the event, and the Careers Information Fair continues to be an important activity in the Careers Service's calendar.

The success of these fairs has encouraged the Service to extend its provision in this area and organise a National Public Sector Careers Fair in 2005, sponsored by the Department for Education and Skills. The public sector is the largest single recruiter of recent graduates, and the fair will be attended by employers and training providers.

## GraduatesYorkshire

During the first full session following the launch of the innovative Yorkshire Forward-funded GraduatesYorkshire project, jobs were found for nearly 600 graduates in the region. The project incorporates the successful Graduate Link service – managed by the Careers Service on behalf of the region. This service identifies and advertises graduate vacancies within

the region via the web. A further element of the GraduatesYorkshire project is the Impact initiative, which is a collaborative scheme between the universities of West and South Yorkshire. It offers specialist advice and guidance to UK-based black and minority ethnic students and graduates.

GraduatesYorkshire provided students and graduates with access to hundreds of vacancies, together with advice on their CVs, applications and career development. The scheme also includes information about postgraduate and other training opportunities in the region. In addition, employers can post details of full-time, part-time or temporary jobs via the project's websites. On average, more than 50 companies use the recruitment service for the first time each month. The extent of this regional collaboration stands comparison with any other area in the country.

## Careers adviser for PhD students

A careers adviser has been appointed with specific responsibility for PhD students. The postholder will work collaboratively with the Graduate Research Office and academic departments to prepare research students for entry into full-time employment. One important area of activity will be the organisation of specific training sessions to help PhD students develop additional employability skills.

## IT initiatives

Directions, the Careers Service's website, was further refined during the session to meet the needs of students and recent graduates. ProspectsNET, a new online vacancy system, enables users to log in and search for graduate opportunities, part-time vacancies and vacation work. Students can also receive email notification of new vacancies that match their saved searches. Over 6,500 users registered with the system in its first year of operation.

A new email enquiry service, E-guidance, allows students to ask Careers Service staff for information and advice online. A third innovation, Interviewer, assists students in developing their interview skills. The interactive system encourages the user to work through a series of interview questions, video their responses and continually practise them, comparing their answers with the standard of achievement the interviewer is looking for.





Sir Frederick Mappin Building,  
Mappin Street.

# In Partnership with Industry and Commerce

THE UNIVERSITY IS COMMITTED TO BUILDING STRONG RELATIONSHIPS WITH INDUSTRY AND COMMERCE THAT PROVIDE MUTUAL BENEFITS TO ALL PARTIES. THESE RELATIONSHIPS CAN VARY FROM MULTIMILLION POUND COLLABORATIVE RESEARCH PROJECTS TO INDIVIDUAL CONSULTANCY WORK.

## Third stream initiatives

The significance to the nation of business-university interaction was highlighted in the Lambert Report to government, and this University continues to place considerable emphasis on its 'third stream' activities. These are managed through the Office of Corporate Partnerships, which provides a gateway for collaborative activity between

academic departments and external organisations. The Third Stream Executive, chaired by the Vice-Chancellor, monitors the progress and performance of individual projects against agreed targets.

In June 2004 the Higher Education Funding Council for England announced an award of £1.9 million to the University under its Higher Education Innovation Fund (HEIF),

a scheme designed to help universities respond to the needs of business and the community. A key element of the successful bid is the appointment of five Business Research Fellows, who will be responsible for stimulating research and training activity with private and public sector organisations. The HEIF funding will also be used to extend the University's enterprise teaching and to build on the successful HEIF 1 Knowledge Exchange project, which is facilitating the short-term secondment of academic staff into business and vice-versa.

The University was also the lead partner in a successful bid by the White Rose Partnership (Leeds, Sheffield and York universities) for funding of £2.5 million from HEIF. The grant will be used to exploit the world-class research strengths of the three universities, with the aim of stimulating investment into the Yorkshire region, with particular emphasis on the health sector.

Consultancy activity is an important element of the University's third-stream mission, as it frequently leads to long-term relationships with companies. The session 2003/04 was particularly successful in this regard, with academic consultancy income exceeding £1million.

**NEW ROLLS-ROYCE UNIVERSITY TECHNOLOGY CENTRE.** Rolls-Royce's third University Technology Centre in the University of Sheffield – in Advanced Electrical Machines and Drives – was launched in November 2003 by Dr Mike Howe, the company's Director of Engineering and Technology.

The adoption of 'more electric' technologies in aerospace marine and energy applications offers the potential for major improvements to existing mechanical drive equipment, hydraulic systems and pneumatic systems.

For aircraft, the 'more electric' concept envisages that electrical power will be used for most of these functions. This will allow a global optimisation of a common electrical system across the airframe, and removal of the radial drive shaft and gearboxes from the engine – ultimately paving the way towards an oil-free engine.

Technologies that are required to realise the full potential of such 'more electric' systems will be researched in the Sheffield UTC, and in two other UTCs – at Strathclyde and Manchester. As part of this latest collaboration, new academic chairs were created at Sheffield and Manchester, supported by Rolls-Royce, EPSRC and the Royal Academy of Engineering.

The University has a long history of working with Rolls-Royce and already hosts two other UTCs – in Control and Systems Engineering and Materials Damping Technology – and a University Technology Partnership in Engineering Design.

## Industrial Partnership Scheme in Civil and Structural Engineering

A new industrial partnership scheme was introduced in 2003 by the Department of Civil and Structural Engineering, strengthening existing links and building new ones with major employers of the Department's



Schematic of a civil aeroengine with electrical machine on the high- and low-pressure shafts and power-conditioning electronics mounted on the engine casing.



The Advanced Manufacturing Research Centre has some of the world's most sophisticated equipment for cutting and shaping materials. It also includes a virtual reality laboratory for modelling undercarriages and the cutting process.

**ADVANCED MANUFACTURING RESEARCH CENTRE.** In July 2004 the new premises of the Advanced Manufacturing Research Centre were formally opened by Prince Andrew. The AMRC brings together world-class engineering research in the University's Faculty of Engineering with top

graduates. The scheme provides for structured vacation employment, which may lead to sponsorship of students for subsequent years of their course. Partner companies will also contribute to teaching, design master classes and site visits, and be involved in curriculum development as members of an industrial liaison committee.

international engineering companies, in particular the world's largest aerospace and communications company, the Boeing Corporation. There are 20 additional partners involved in the Centre, including Rolls-Royce and Messier-Dowty, the world's leading manufacturer of aircraft landing gear.

The AMRC is developing new processes for manufacturing materials for use in next generation commercial aircraft. During the session the Centre was awarded a grant of £2.7 million from the European Union to support its work in developing leading edge technology within the Advanced Manufacturing Metals Cluster in South Yorkshire and transferring it to the sub-region's businesses.

A second key partnership between Boeing and the University was announced by the



Minister for Trade and Industry Patricia Hewitt in July 2004. The Composites and Advanced Materials Technology Centre is part of a national network of four such centres which have received funding totalling £30 million to deliver lighter, stronger composites technologies for the aerospace, automotive, marine and construction industries.

Earlier in the year, Boeing announced that Messier-Dowty would be awarded the contract to supply the landing gear for its new passenger plane, the 7E7 Dreamliner. Messier-Dowty will be collaborating with University of Sheffield researchers in the design, development and manufacture of the landing gear for Dreamliner.



**PLEASURELANDS.** The magical world of the fairground was brought to life in a major exhibition at the Millennium Galleries, organised by Dr Vanessa Toulmin of the University's National Fairground Archive. Pleasurelands celebrated the tradition of the great British Funfair – dating back more than 200 years – displaying outstanding images and items of fairground memorabilia drawn from the Archive and public and private collections. The exhibition introduced some of the great show people who created the mystery of the fair, such as the knife-throwing Shufflebottom family, the Smarts and Billy Bellhouse, the Sheffield Wall of Death rider. Pleasurelands ran for more than three months at the end of 2003 and subsequently transferred to Croydon and Edinburgh.



## Part of the Region

THE UNIVERSITY INTERACTS WITH THE LOCAL COMMUNITY IN A VARIETY OF WAYS – SCIENTIFIC AND CULTURAL, ANCIENT AND MODERN. THE COMMON THREAD RUNNING THROUGH THESE ACTIVITIES IS A MUTUALLY BENEFICIAL SHARED EXPERIENCE.

### Café Scientifique

A new monthly forum for debating topical scientific issues was launched at the beginning of the session by Dr Sandrine Soubes. Café Scientifique provides an opportunity for the general public, to learn more about science and to question and debate the current issues.

The discussions are led by members of the University's staff, after they have made a short presentation on their area of expertise. Among the topics discussed in 2003/04 were stem cell research, tissue engineering, nanotechnology, electromagnetic fields, the scientists' peer review system, lying and deception, and the effect of ecstasy on brain activity. The Sheffield Café Scientifique follows the same principle as the French café philosophique, established by Marc Sautet in 1992. Meetings are hosted by the Showroom Cinema, reinforcing the town-gown philosophy of Café Scientifique.

### Time Team in steel city

For eight months during 2003 Tony Robinson and Time Team followed the work of ARCUS, the University's archaeological consultancy unit, as they excavated industrial sites across the city, uncovering evidence about the people and industries that made

Sheffield the largest steel producer in the world.

The programme was broadcast as *Steel City – a Time Team Special* in March 2004. Over 70 hours of filming was carried out for the one-hour programme, which attracted an audience of 2.7 million.

### National Science Week

Thirty members of University staff went into local schools during National Science Week to give 81 talks to pupils of all ages. The joint programme with Sheffield Hallam University offered the most comprehensive range of events in the country, with additional input from local museums, industry and commerce.

Topics covered by staff during their school visits included the biggest epidemic in history, the amazing lives of social insects, out and about the universe, the thawing Arctic, clean



Right: Time Team filming in Sheffield.



Scenes from National Science Week, involving Professors Charles Stirling (top) and Matthew Holley (above).

energy of the future, muscles, and chemical engineering in the kitchen. Professor Paul Hatton's National Science Week Public Lecture – The Bionic Man Versus Frankenstein's Monster: contrasting technologies for repairing the human body – attracted a capacity audience in St George's Church Lecture Theatre.

### Science Learning Centres

A consortium of four Yorkshire Universities – Leeds, Sheffield, York and Sheffield Hallam – made successful bids for both the National Science Learning Centre, to be based at York, and the Yorkshire and Humber Regional Centre, which will be located at Sheffield Hallam. The £51 million initiative will offer teachers from across the UK the resources and environment in which to explore innovative and creative approaches to science education. Between them, the Science Learning Centres will transform the quality of training and support available to primary, secondary and further education science teachers.

**WORLD PREMIÈRE OF BANNED 1950s PLAY.** As part of their course on censorship in the theatre, second-year English literature students performed a melodrama that was banned by the Lord Chamberlain in 1951. *Sex for Sale* by Eddie Kaplan was rehearsed and staged much as it would have been in the 1950s, giving the production an authentic feel and the cast a deeper understanding of theatre at the time. A tale of sex, prostitution, murder, politics and the Mafia, the play deals with matters that are still contemporary today, including political sex scandals. Funding for the production, which was presented in the Theatre Workshop, came from the Arts and Humanities Research Board as part of its Theatre Archive Project with the University.



# The Union of Students

THE GUIDING PRINCIPLE OF THE UNION OF STUDENTS IS THAT ALL STUDENTS SHOULD GET FULL VALUE FROM THEIR MEMBERSHIP, WHETHER IT IS OUR SERVICES, OUR REPRESENTATION OF STUDENTS' INTERESTS, OR OUR MANY ACTIVITIES.

The University's *Annual Student Survey*, conducted by the Oxford Research Agency, demonstrated that the Union of Students, above all other areas in the institution, exceeded students' expectations in the services that are provided. Oxfam chose the Union to launch one of a new generation of shops, which will concentrate on second-hand books and music. The partnership with Oxfam offers students a valuable new service and provides the Union with a commercially competitive rental.

Sheffield Volunteering's schools programme continues to thrive, with student involvement showing a 30 per cent increase on last year. The programme was also extended to a further 10 schools, bringing the total number involved to 21, mostly in deprived areas. Nearly 350 student volunteers took part in the schools programme, with the aim of helping

pupils raise their level of achievement by working with them as trained tutors, mentors and linguists.

In December 2003 the Union was invited to showcase its Sheffield Volunteering project at the national HEACF (Higher Education Active Community Fund) Student Volunteering Awards Ceremony. Its work has been recognised by the Higher Education Funding Council for England as a model of good practice, and as a result it was featured in HEACF's Best Practice Guide, published by the Careers Research Advisory Centre.

Student social space in the Union building was expanded with the redevelopment of the 'Gallery' on level four, including the introduction of computing facilities. In February 2004 the Union organised its first Refreshers Fair, to give students a chance to find out more about the



activities they might have missed during Freshers Week. The Union has also developed an environmental policy covering the management of all activities in the Union building.

Attendance figures at the 234 events organised by the Entertainments Department totalled 221,750, and this helped the Fusion and Foundry bars to achieve record takings: Over £1 million was taken in the bars at regular club nights during the year. The Interval Café offers something different from the traditional student bar and has wide appeal to all sections of students. It achieved the highest satisfaction ratings (93 per cent) in the University's *Student Survey*.



Students from the School of English's Theatre in Education programme won the top prize in the first national HEACF's Student Volunteering Awards competition, held at Manchester United FC in December 2003. Their Acting Together project used theatre work to improve literacy and social skills in Education Action Zone schools.

*Left to right:* Amy Shaw, Nicola Brooks, Sara Jones, Lisa Huckerby and Katie Harris.



Having won the Club Mirror 'Promotion of the Year' award for the last two years, the Union this time won the 'Students' Union of the Year' prize and was a finalist in the 'Entertainments Club of the Year' section. The Club Mirror awards recognise excellence and innovation in the entertainments industry and are open to private and public sector organisations. Another award-winner was Steel Press writer Jenna Sloan, who won the Diversity Award at the 2004 Daily Mirror Student Media Awards, and was runner-up for Best Feature Writer.

The University and the Union collaborated closely to help the institution gain Fairtrade status at the end of the year. The Union's Coffee Revolution outlets have developed a full range of Fairtrade coffees and teas, and the Union Shop is also stocking Fairtrade products.

Student volunteer Jo Earl won the prize for 'Best Picture taken by a photographer under 25 years old' at the National Volunteers Week Photography competition. The photograph captures the Saturday Playgroup in action.



# Honours and Distinctions

## Professor John Birds

### Law

Elected President of the Society of Legal Scholars.

## Professor Tim Birkhead

### Animal and Plant Sciences

Elected a Fellow of the Royal Society, for his research on behavioural ecology and sperm competition in birds.

## Professor Bob Boucher

### Vice-Chancellor

Invited to join the Board of Yorkshire Forward, the regional development agency for the Yorkshire and Humber area. Appointed a member of the Steering Panel of the International Review of Engineering (Engineering and Physical Sciences Research Council and the Royal Academy of Engineering).

## Professor Brian Brown

### Medical Physics and Clinical Engineering

Awarded the Herman Schwan Award at the International Conference on Electrical Bio-impedance, for his pioneering research into electrical impedance tomography.

## Mrs Tracy Carr, Mrs Debbie Gooder and Mr Tony Eaton

### Accommodation and Campus Services

Winners of the Gold Medal in the British Universities' Chefs Challenge 2004, for a record fifth time.

## Ms Heledd Charles-Williams

### Masters student in Chemical and Process Engineering

Winner of the BOC Award for Best Chemical Engineering Student at the 2004 National Science, Engineering and Technology Student of the Year Awards.

## Professor Tony Cullis

### Electronic and Electrical Engineering

Elected a Fellow of the Royal Society, for his research on the microscopic structure and behaviour of semiconducting materials.

## Professor Danny Dorling

### Geography

Awarded a Philip Leverhulme Prize for his work in human geography.

## Ms Denise Dunn

### Third-year mature Nursing and Midwifery student

Winner of the Nursing Standard's Student Nurse of the Year Award 2003.

## Professor Richard Eastell

### Clinical Sciences North

Awarded the Society for Endocrinology Medal and the Kohn Foundation Award, for his long-standing commitment to improving the diagnosis and treatment of osteoporosis.

## Miss Tessa Haynes

### Final-year Medical student

Awarded the Royal College of Obstetricians and Gynaecologists' Tim Chard Case History Prize, for her study on screening for ovarian cancer in high-risk groups.

## Mr James Horner

### Final-year Architecture student

Winner of the PilkingtonActiv™ Student Spectrum Awards, for the best use of glass in student work.

## Miss Nicole Hudd

### Final-year Medical student

Winner of the ARC Prize in Rheumatology, awarded by the Arthritis Research Campaign.

## Mr Daniel Jackson

### Chemistry

Awarded the A D Wood Cup by the British Society of Scientific Glassblowers, for the most outstanding example of craftsmanship.

Heledd Charles-Williams receives her 'Best Chemical Engineering Student' award in the Guildhall, London.





Left to right: Professor David Read; Denise Dunn with the Health Secretary Dr John Reid after receiving her 'Student Nurse of the Year' award; Professor Noel Sharkey with his eMo robot that is capable of displaying a range of emotions.

**Dr Alison James**

**University Health Service**

Received the Innovative Clinical Care Award from GP magazine and the Royal College of General Practitioners, in recognition of her pioneering clinic for eating disorders.

**Dr Malcolm Jones**

**English Language and Linguistics**

Awarded the Brenda McCallum Prize by the American Folklore Society, and also the Folklore Society's Katherine Briggs Award.

**Professor Sir Ian Kershaw**

**History**

Awarded honorary degrees by the Universities of Manchester (DLitt) and Stirling (DUniv), for his achievements in modern German history.

**Robert May and Chi Lau**

**Final-year Civil and Structural Engineering students**

Won first prize in the Corus/SCI competition at the Undergraduate Design Awards for Structural Steelwork Design.



**Emeritus Professor Keith Miller**

**Mechanical Engineering**

Elected to a Fellowship of Imperial College, the highest award in the power of the College.

**Dr Kypros Piloukatis**

**Civil and Structural Engineering**

Awarded an honorary degree by the Technical University of Iasi, Romania, in recognition of his achievements in structural engineering and construction innovation.

**Professor David Read**

**Animal and Plant Sciences**

Elected Vice-President of the Royal Society, and also its Biological Secretary.

**Professor Jennifer Saul**

**Philosophy**

Awarded a Philip Leverhulme Prize for her work in the philosophy of language.

**Professor Noel Sharkey**

**Computer Science**

Awarded a Senior Media Fellowship by the Engineering and Physical Sciences Research Council.

**Professor Charles Stirling**

**Chemistry**

Awarded an Honorary Fellowship by the University of Wales, Bangor, for his work in the fields of organic chemistry and public appreciation of science.

Daniel Jackson with the A D Wood Cup.

**Professor Geoff Tucker and**

**Dr Amin Rostami**

**Clinical Sciences South**

Awarded the New Safer Medicines Faster Award 2004 of the European Federation for Pharmaceutical Sciences.

**Professor James Underwood**

**Genomic Medicine**

Elected to Honorary Fellowships of the Royal College of Physicians of Ireland and of the Royal College of Physicians (London).

**Professor Alan Walker**

**Sociological Studies**

Appointed Director of the Economic and Social Research Council's New Dynamics of Ageing Programme.

**Emeritus Professor David Walker**

**Animal and Plant Sciences**

First recipient of the Communications Award of the International Society of Photosynthesis.

**Professor Sarah Wigglesworth**

**Architecture**

Awarded an MBE in the New Year Honours List 2004, for her services to architecture.

**Professor Ian Woodward**

**Animal and Plant Sciences**

Elected a Fellow of the American Association for the Advancement of Science.

# Honorary and Ex-Officio Degrees

## HONORARY DEGREES

### Ms Lynne Brindley (*LittD*)

Chief Executive of the British Library.

### Professor Sir Liam Donaldson (*DSc*)

Chief Medical Officer of the Department of Health.

### Ms Nicci Gerrard (*LittD*)

Author and journalist, and a graduate of the University.

### Mr Michael Grandage (*LittD*)

Associate Director of Sheffield Theatres and Artistic Director of the Donmar Warehouse.

### Dr Stylianos Hadjistyllis (*LittD*)

Formerly Director of Cultural Services in the Ministry of Education and Culture in Cyprus, and a graduate of the University.

### Mrs Joanne Harris (*LittD*)

Best-selling author, and a former student and member of staff at the University.

### Professor Alan Johnson (*DSc*)

Former Professor of Surgery at the University.

### Ms Jenni Murray (*LittD*)

Broadcaster and presenter of the BBC Radio 4 flagship programme *Woman's Hour*, author and columnist.

### Professor Denis Noble (*DSc*)

Burdon-Sanderson Professor of Cardiovascular Physiology at the University of Oxford.

### Sir Keith Povey (*LLD*)

Her Majesty's Chief Inspector of Constabulary for England and Wales, and a graduate of the University.

### Sir Sacheverell Resesby Sitwell (*LittD*)

A celebrated patron of the arts and culture, having done much to preserve this country's historic buildings and gardens, particularly in the Sheffield region.

### Dr Pavel Seifter (*LittD*)

Former Ambassador of the Czech Republic to Great Britain

### Professor Colin Smith (*DSc*)

Former Dean of Dental Studies and Head of the Department of Oral Pathology at the University.

### Dr Jeffrey Wadsworth (*DEng*)

Director of Oak Ridge National Laboratory in Tennessee and a graduate of the University.

### Professor Kurt Wüthrich (*DSc*)

Professor of Biophysics at the Eidgenössische Technische Hochschule in Zürich, and joint winner of the 2002 Nobel Prize in Chemistry.

### Dr Kenneth Yeang (*LittD*)

Distinguished architect based in Kuala Lumpur, Graham Willis Visiting Professor in the Sheffield School of Architecture.

### Professor Michel Zink (*LittD*)

Professor of the Literatures of Medieval France at the Collège de France.

*Clockwise from top left:* The Chancellor, Sir Peter Middleton, and Sir Keith Povey; Dr Joanne Harris; Dr Michael Grandage; Dr Lynne Brindley.



## EX-OFFICIO DEGREE

### Mr Derrick White (*MSc*)

Former Departmental Manager in the Department of Chemistry.



# Staffing Matters

## APPOINTMENTS TO

### SENIOR POSTS

#### Pro-Vice-Chancellor

**Professor P L White**

#### Dean of a Faculty

**Professor M S M Llewelyn**

#### Director of the Careers Service

**Mr S J Fish**

#### Director of Marketing

**Mrs J Chafer**

#### Chairs

**Professor N M Allinson**

Electronic and Electrical Engineering

**Professor D B Applebaum**

Probability and Statistics

**Professor S P Armes**

Chemistry

**Professor R M Ashley**

Civil and Structural Engineering

**Dr H Askes**

Civil and Structural Engineering

**Professor N D S Bax**

Medical Education

**Dr D J Bennet**

Archaeology

**Mr F K Birkin**

Management

**Dr W P Blackstock**

Molecular Biology and Biotechnology

**Professor A G D Bradney**

Law

**Professor R K Butlin**

Animal and Plant Sciences

**Ms S M Corral**

Information Studies

**Dr N G Duffield**

English Language and Linguistics

**Dr A J Fleming**

Animal and Plant Sciences

**Dr S R I Foot**

History

**Dr A P Geddes**

Politics

**Dr J H Harding**

Engineering Materials

**Professor G R J Hockey**

Psychology

**Professor A L James**

Sociological Studies

**Professor R E Lingard**

Education

**Professor I Moerdijk**

Pure Mathematics

**Dr R K Moore**

Computer Science

**Associate Professor L M Parsons**

Psychology

**Dr M Rees**

Animal and Plant Sciences

**Dr T Schrefl**

Engineering Materials

**Professor P H Selman**

Landscape

**Professor V P Snaith**

Pure Mathematics

**Dr P Standish**

Education

**Dr M H Staub**

History

**Professor P Swanson**

Hispanic Studies

**Professor M J Thompson**

Applied Mathematics

**Dr S C Webb**

Education

## PROMOTIONS TO CHAIRS

**Dr R J Cook**

History

**Dr J P R David**

Electronic and Electrical Engineering

**Dr J Divers**

Philosophy

**Mr N J Ford**

Information Studies

**Dr J Green**

Molecular Biology and Biotechnology

**Dr J D Hitchmough**

Landscape

**Dr G E M Jones**

Archaeology

**Dr L L Maltby**

Animal and Plant Sciences

**Dr D J Owens**

Philosophy

**Dr A Pavic**

Civil and Structural Engineering

**Dr K Pilakoutas**

Civil and Structural Engineering

**Dr A G Pockley**

Clinical Sciences North

**Dr H J Powers**

Clinical Sciences North

**Dr M S Ruderman**

Applied Mathematics

**Dr J M Saul**

Philosophy

**Dr J P Sayers**

Genomic Medicine

**Dr R B Shoemaker**

History

**Dr J P Stock**

Music

**Dr A J Taylor**

Politics

## PROMOTIONS TO ACADEMIC

### RELATED GRADE 6

**Ms G M Battye**

Human Resources

**Ms S A Fulton**

Research Office

**Ms G C Tait**

Human Resources

**Dr A West**

Student Services

## RETIREMENTS FROM

## SENIOR POSTS

**Professor B B Argent**  
Engineering Materials

**Mr W A Bullough**  
Mechanical Engineering

**Professor D J A Clines**  
Biblical Studies

**Professor J R Collis**  
Archaeology

**Dr D B Cook**  
Chemistry

**Professor P R Davies**  
Biblical Studies

**Professor J R Ebdon**  
Chemistry

**Mr P K Else**  
Economics

**Dr S Foster**  
English Literature

**Professor J P Frisby**  
Psychology

**Dr H Hasegawa**  
East Asian Studies

**Professor H Jones**  
Engineering Materials

**Mr J E Lloyd**  
Finance

**Dr A O S Maczek**  
Chemistry

**Mr R J Marshall**  
Town and Regional Planning

**Professor J D McClean**  
Law

**Mr R P Mumby**  
Finance

**Professor D I Newble**  
Medical Education

**Professor Associate B Owens**  
Animal and Plant Sciences

**Dr R W Pethen**  
Careers Service

**Professor D J Read**  
Animal and Plant Sciences

**Mrs A Rouxville**  
French

**Professor M Saleh**  
Clinical Sciences North

**Dr R Smyth**  
Mechanical Engineering

**Professor P R Tregenza**  
Architecture

**Professor Associate D G Trelford**  
Journalism

**Mr J D White**  
Chemistry

**Dr J M Williams**  
Physic and Astronomy

## OBITUARIES

**Dr B Brocklehurst**  
Chemistry

**Dr B E Cotton**  
Former Pro-Chancellor

**Emeritus Professor D B Grigg**  
Geography

**Mr F K Hedderwick**  
Continuing Education

**Miss M Hitchcock**  
Probability and Statistics

**Mr S K Howard**  
Physical Education and Recreation

**Dr J O Isard**  
Ceramics, Glasses and Polymers

**Dr P J Mayo**  
Russian and Slavonic Studies

**Professor I D MacKillop**  
English Literature

**Dr D H McLain**  
Computing Services

**Emeritus Professor L R Moore**  
Geology

**Dr S K Walker**  
History

**Mr C D Wood**  
Engineering Materials

**Dr G F Young**  
Former Treasurer and Pro-Chancellor



Dr Ernie Bailey (second right) with, left to right, Rosie Valerio, the Vice-Chancellor and Dr Angela Bailey, at the opening of the Ernie Bailey Room in the Department of Human Resources.

# Student Numbers (at 1 December 2003)

## FULL-TIME STUDENTS, 2003/04

Faculty/School	Undergraduate						Postgraduate						TOTAL
	Home/EC		Overseas		Total		Home/EC		Overseas		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	
Arts	920	1,549	1	8	921	1,557	136	164	33	57	169	221	2,868
Pure Science	1,332	1,195	46	30	1,378	1,225	329	216	137	103	466	319	3,388
Medicine & Biomedical Sciences	486	893	35	48	521	941	61	141	52	53	113	194	1,769
Clinical Dentistry	124	169	5	7	129	176	8	7	2	4	10	11	326
Nursing & Midwifery	185	1,863	–	–	185	1,863	15	51	–	2	15	53	2,116
Law	389	711	57	118	446	829	102	154	54	90	156	244	1,675
Engineering	945	143	468	126	1,413	269	191	52	337	120	528	172	2,382
Social Sciences	1,569	1,407	66	121	1,635	1,528	211	353	153	170	364	523	4,050
Architectural Studies	360	233	10	25	370	258	27	35	64	55	91	90	809
TOTALS	6,310	8,163	688	483	6,998	8,646	1,080	1,173	832	654	1,912	1,827	19,383
TOTALS (Male and Female)	14,473		1,171		15,644		2,253		1,486		3,739		

Note: In addition there were 133 Modern Language students abroad, 95 Architecture students in office practice, 12 students on optional year-outs, and 498 Erasmus and Year Abroad students.

## PART-TIME STUDENTS, 2003/04

Faculty/School	Undergraduate						Postgraduate						TOTAL
	Home/EC		Overseas		Total		Home/EC		Overseas		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	
Arts	2	1	–	–	2	1	83	109	7	11	90	120	213
Pure Science	20	5	2	1	22	6	62	51	10	9	72	60	160
Medicine & Biomedical Sciences	–	8	–	–	–	8	128	164	16	24	144	188	340
Clinical Dentistry	–	–	–	–	–	–	17	9	–	1	17	10	27
Nursing & Midwifery	24	990	–	–	24	990	11	38	–	1	11	39	1,064
Law	5	8	3	2	8	10	11	6	–	1	11	7	36
Engineering	11	1	4	1	15	2	102	11	19	4	121	15	153
Social Sciences	339	557	6	10	405	567	180	401	97	146	277	547	1,796
Architectural Studies	3	3	1	–	4	3	8	7	–	–	8	7	22
TOTALS	464	1,573	16	14	480	1,587	602	796	149	197	751	993	3,811
TOTALS (Male and Female)	2,037		30		2,067		1,398		346		1,744		

## NEW FULL-TIME STUDENTS, 2003/04

Faculty/School	Undergraduate						Postgraduate						TOTAL
	Home/EC		Overseas		Total		Home/EC		Overseas		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	
Arts	313	576	1	4	314	580	72	104	14	41	86	145	1,125
Pure Science	407	385	26	12	433	397	133	89	77	76	210	165	1,205
Medicine & Biomedical Sciences	101	218	7	13	108	231	27	70	30	30	57	100	496
Clinical Dentistry	29	34	3	–	32	34	5	2	1	4	6	6	78
Nursing & Midwifery	67	683	–	–	67	683	4	39	–	1	4	40	794
Law	125	294	25	67	150	361	88	139	49	79	137	218	866
Engineering	236	31	203	45	439	76	74	21	180	72	254	93	862
Social Sciences	609	546	27	45	636	591	168	275	108	146	276	421	1,924
Architectural Studies	98	75	3	10	101	85	16	22	34	37	50	59	295
TOTALS	1,985	2,842	295	196	2,280	3,038	587	761	493	486	1,080	1,247	7,645
TOTALS (Male and Female)	4,827		491		5,318		1,348		979		2,327		

# Examination Performance

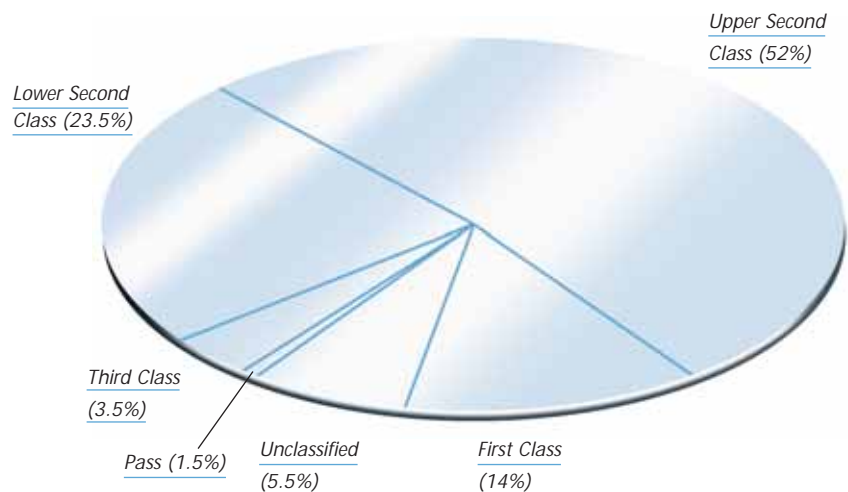
## TYPES OF DEGREES AWARDED IN 2003/04

FIRST DEGREES (4,375)			
BA	1,859	BEng	212
BA/Dip	134	BScTech	3
BMus	29	MBiolSci	15
BSc	730	MChem	47
BSc/Dip	5	MComp	12
MBChB	198	MMath	24
BMedSci	422	MPhys	19
BDS	49	MEng	241
LLB	306	MArch	1
BA(Law)	69		

HIGHER DEGREES (1,878)			
PhD	297	MMedSci	101
MD	17	LLM	105
DClinPsy	16	MSc(Eng)	180
EdD	9	MMet	12
MPhil	28	MBA	97
MA	570	MEd	147
MMus	2	MArch	14
MMinTheol	1	MArchStuds	12
MSc	263	MScRes	7

## FIRST DEGREES AWARDED IN 2003/04



## EXAMINATION RESULTS 2003/04

Faculty/School/Board	First Degrees							Higher Degrees			Diplomas	Certificates
	I	II.1	II.2	III	Pass	Aegrotat	Unclassified	PhD	Masters	Other Doctorates		
Arts	85	512	100	2	-	-	-	36	164	-	8	-
Pure Science	131	408	174	22	18	-	-	67	158	16	10	-
Medicine & Biomedical Sciences	15	43	23	-	2	-	198*	49	132	17	47	-
Clinical Dentistry	-	-	-	-	-	-	49*	1	17	-	11	-
Nursing & Midwifery	93	148	86	19	8	-	-	2	14	-	687	-
Law	14	250	117	12	-	-	-	11	150	-	40	-
Engineering	127	185	109	15	20	-	-	88	208	-	3	-
Social Sciences	78	490	237	25	3	-	-	30	608	9	83	177†
Architectural Studies	11	85	50	4	2	-	-	12	52	-	91	-
Collegiate Studies	53	152	139	55	10	-	-	1	169	-	100	39
TOTALS	607	2,273	1,035	154	63	-	247	297	1,672	42	1,080	216

\*MBChB and BDS degrees are unclassified †Includes 156 PGCE

# Officers and The Council

## OFFICERS OF THE UNIVERSITY

(Session 2003/04)

### The Chancellor

Sir Peter Middleton

### The Pro-Chancellors

Mr P W Lee (Chairman of the Council)

Mr G H N Peel

Mrs K E Riddle

### The Treasurer

Mr A M C Staniforth

### The Vice-Chancellor

Professor R F Boucher

### The Pro-Vice-Chancellors

Professor A D H Crook

Professor P J Fleming

Professor P A Jones

Professor G R Tomlinson

### The Deans of the Faculties

Arts: Professor D H Walker

Pure Science: Professor J A Lee

Medicine: Professor A H Brook

Law: Professor J G Merrills

Engineering: Professor D H Owens

Social Sciences: Professor W Carr

Architectural Studies: Professor B R Lawson

### The Registrar and Secretary

Dr D E Fletcher

## THE COUNCIL OF THE UNIVERSITY

(Session 2003/04)

### Ex-officio members

#### The Chancellor

#### The Pro-Chancellors

#### The Treasurer

#### The Vice-Chancellor

#### The Pro-Vice-Chancellors

#### The Chairman of Convocation

Mr P R Downey

### One person elected by Convocation

Mr R B Wrigley

### Thirteen persons elected by the Council

Mrs V J Bayliss

Mr J C A Biggin

Mr P Firth

Mr H W Howe

Mr C J Jewitt

Dr H S Johnson

Dr C F King

Rt Rev J Nicholls

Sir Michael Partridge

Mr V J Smith

Mr O G Stephenson

Mr R Tapp

Vacancy

### Two Deans of the Faculties elected

### annually by the Deans of Faculties

Professor B R Lawson

Professor J A Lee

### Five members of the Senate elected by the Senate

Dr S B M Beck

Mrs J Dagg

Dr T M Searle

Professor Y Wilks

Vacancy

### Two Officers of the Union of Students

President: Mr D Mitchell

Welfare Officer: Ms J Allen

### One person who is not a member of the academic or academic-related staff

Mrs M Simkins

### Secretary to the Council

The Registrar and Secretary

Trevor Pinnock in rehearsal with Music students in Firth Hall.



Nobel Laureate and Sheffield Chemistry graduate Dr Richard Roberts pictured after opening the refurbished east wing of the Dainton Building, April 2004.



**DAINTON BUILDING E**

# Facts and Figures

■ The University grew out of the Sheffield Medical School (founded in 1828), Firth College (1879), and the Sheffield Technical School (1884). These three institutions came together in 1897 to form the University College of Sheffield, which in turn became the University of Sheffield in 1905.

■ 70 Academic Departments, Divisions and Sections are grouped in the seven Faculties (Architectural Studies, Arts, Engineering, Law, Medicine, Pure Science, Social Sciences).

■ 19,383 full-time students were registered for degree and diploma courses in the session 2003/04. Of these, 15,644 were undergraduates (6,998 men, 8,646 women) and 3,739 were postgraduates (1,912 men, 1,827 women).

■ 3,811 part-time students were registered for degree and diploma courses in the session 2003/04.

■ 5,318 undergraduate and 2,327 postgraduate students were admitted to full-time degree and diploma courses in the session 2003/04.

■ 4,375 First degrees, 1,672 Masters degrees, 297 Doctor of Philosophy degrees, 42 other Doctors degrees, 1,080 Diplomas and 216 Certificates were awarded by the University in the session 2003/04.

■ 34,086 applications were received through UCAS for undergraduate entry in September 2004.



International food evening in the Octagon Centre.

■ The average A level entry score for September 2004 was 25.3.

■ 5,784 people were employed at the University on 31 July 2004. This figure comprised the following categories of staff: Academic (1,296 – of which 344 were Professors, 430 Readers and Senior Lecturers, and 522 Lecturers); Academic-Related (898); Research (916); Technical (625); Clerical and Secretarial (1,154); Manual and Ancillary (800); Other Staff (95).

■ 291 First degree courses and 163 Masters degree courses were available to students entering the University in September 2004.

■ 200 courses, the majority credit-bearing, are organised each year by the Institute for Lifelong Learning.

■ 2,859 international students from 116 countries were registered on full-time courses in 2003/04. In addition, there were 112 part-time and 271 distance learning international students taking University of Sheffield courses.

■ 4,862 student places were available in University halls (2,732) and flats (2,130) in 2003/04.

■ Over 1.4 million books, periodicals and other items are held in the University Library.

■ More than 70 concerts and plays are organised each year by University students and staff.

■ The University's income for the financial year ended 31 July 2004 was £284m.

## MISSION STATEMENT

The mission of the University is to maintain the highest standards of excellence as a research-led institution of international standing, whose staff work at the frontiers of academic enquiry and educate students in a research environment.

# The University at a Glance

IN THE SESSION 2003/04 THERE WERE 70 ACADEMIC DEPARTMENTS, DIVISIONS AND SECTIONS, GROUPED ACCORDING TO ALLIED INTERESTS INTO SEVEN FACULTIES. SOME DEPARTMENTS (MARKED WITH AN ASTERISK) APPEAR IN MORE THAN ONE FACULTY.

## ARTS

Archaeology\*  
Biblical Studies  
English Language and Linguistics  
English Literature  
French  
Germanic Studies  
Hispanic Studies  
History\*  
Music  
Philosophy  
Russian and Slavonic Studies

## PURE SCIENCE

Animal and Plant Sciences  
Applied Mathematics  
Archaeology\*  
Biomedical Science\*  
Chemistry  
Computer Science\*  
Geography\*  
Information Studies\*  
Molecular Biology and Biotechnology\*  
Physics and Astronomy  
Probability and Statistics  
Psychology\*  
Pure Mathematics

## MEDICINE

### School of Medicine and Biomedical Sciences

#### *Divisions*

Biomedical Science\*  
Clinical Sciences North  
Cardiovascular Science  
Human Metabolism  
Sheffield Institute for Studies on Ageing

### Clinical Sciences South

Child Health  
Medical Physics and Clinical Engineering  
Medical Sciences  
Reproductive and Developmental Medicine  
Surgical and Anaesthetic Sciences  
Genomic Medicine  
Functional Genomics  
Genetics and Informatics  
Oncology and Pathology

#### *Departments*

Human Communication Sciences\*  
Medical Education  
Molecular Biology and Biotechnology\*

### School of Clinical Dentistry

Adult Dental Care  
Oral Health and Development  
Oral and Maxillofacial Surgery  
Oral Pathology

### School of Nursing and Midwifery

Acute and Critical Care Nursing  
Community, Ageing, Rehabilitation, Education and Research  
Mental Health and Learning Disability  
Midwifery and Children's Nursing

### School of Health and Related Research

#### *Sections*

General Practice and Primary Care  
Health Policy and Management  
Information Resources  
Medical Care Research  
Mental Health  
Operational Research  
Public Health  
Sheffield Health Economics

## LAW

Law

## ENGINEERING

Automatic Control and Systems Engineering  
Chemical and Process Engineering  
Civil and Structural Engineering  
Computer Science\*  
Electronic and Electrical Engineering  
Engineering Materials  
Mechanical Engineering

## SOCIAL SCIENCES

East Asian Studies  
Economics  
Education  
Geography\*  
History\*  
Human Communication Sciences\*  
Information Studies\*  
Journalism Studies  
Lifelong Learning  
Management  
Politics  
Psychology\*  
Sociological Studies

## ARCHITECTURAL STUDIES

Architecture  
Landscape  
Town and Regional Planning



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