

The University of Sheffield

Annual Report  
2002/03



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*Front Cover:* The Edwardian Firth Court building reflected in the glass panelling of the new Institute of Molecular Physiology.

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## Chairman's Foreword



Higher education in the United Kingdom continues to be characterised by rapid change and by an increasingly competitive and evolving global market. The key issues facing universities in the 21st century have been addressed by the Government in its White Paper, 'The Future of Higher Education', and by the Higher Education Funding Council for England in its Strategic Plan for 2003-08, which has been developed within the broad policy framework of the White Paper.

Widespread consultation on these two documents has taken place in the University, and the institution has also developed its Corporate Plan for the period 2003/04 to 2007/08. The Plan was submitted to HEFCE at the end of July and will form an overall framework for activities across the University in the core areas of learning and teaching, research, widening participation and knowledge transfer into business and the community.

As this report testifies, the University is performing commendably in each of these areas, but we recognise that there is no room for complacency. The University will continually respond to changes in the context of higher education in order to remain a healthy, sustainable and competitive enterprise.

The University's sound financial position has meant that for the second

year running it has been able to undertake a major programme of academic staff recruitment in areas of strategic importance to the institution. Development of the estate has progressed strongly, with expenditure of £42 million on buildings and equipment this year, principally for new research facilities. This substantial investment in human and physical resources will ensure that the University continues to be a leading player on the world stage.

The Council of the University has maintained its close involvement in strategic decision-making and its members have taken a keen and supportive interest in the excellent work being done by the Vice-Chancellor and his very able team.

At the end of the session three members of the Council, with 45 years of service between them, retired. I should like to place on record my thanks for the expert advice and support given by Dr Jim McQuaid, Dr Elizabeth Walmsley and Mr Jamie Boot over so many years.

Peter Lee, CBE, MA, DL  
Chairman of the University Council



## Vice-Chancellor's Introduction

HIGHER EDUCATION HAS BEEN THE SUBJECT OF CONSIDERABLE POLITICAL AND PUBLIC SCRUTINY OVER THE PAST YEAR, WITH A SERIES OF NATIONAL REVIEWS AND INQUIRIES INTO ALL ASPECTS OF THE UNIVERSITY SYSTEM.

In January 2003 the Government published its White Paper on 'The Future of Higher Education', which confronts head-on the difficulties of longer-term funding for a high-quality, socially-inclusive higher education sector. The White Paper, which was widely discussed in the University, recognises the international quality and success of UK universities, while at the same time acknowledging that there is a massive investment backlog in teaching and research facilities in English universities.

A major new resource proposed in the White Paper is the increased graduate contribution, on the basis that graduates on average earn much more than those without degrees and are far more likely to be in employment. The Council of the University has agreed that we should plan for the charging of variable fees (up to £3,000 per year) if the proposal gains parliamentary approval. We also support, as does the higher education sector as a whole, the Government's commitment to abolish up-front payment of fees at registration, to make the loans interest free, and to increase the salary threshold for repayment. We also welcome the Government's intention to continue paying the first £1,100 of fees for students from lower income families, and to move towards the reintroduction of targeted maintenance grants.

There are, however, aspects of the White Paper that give us cause for concern and which may in fact inhibit the realisation of the Government's aims. The first of these is the assertion that the link between teaching and research is indirect, a view that could lead to some institutions with a university title not carrying out the range of functions normally associated with a university. With regard to the Government's proposals on research concentration, we believe it is essential that a balance is maintained between funding top-rated departments to support excellence, protecting areas of high-quality research across the sector, and encouraging new and developing lines of research.

A third area of concern is the inadequate level of recurrent funding for teaching – particularly given the White Paper's emphasis on teaching excellence and the need to modernise pay structures for all staff. Finally, we believe that knowledge transfer should be the responsibility of all universities and not focused on the less research-intensive universities, as the Government proposes. New technology is most likely to be transferred by the universities that create it in the first place.

The White Paper was one of a series of national consultations which drew a formal response from the University. The Roberts Review of Research Assessment,

prepared on behalf of the four higher education funding bodies, recommended a new method of assessing the quality of research in UK universities. This document was considered alongside a consultation on 'The Sustainability of University Research', commissioned by the Department of Trade and Industry and aimed at reforming parts of the dual support system. We have also contributed to HEFCE's consultation on 'Improving Standards in Postgraduate Research Degree Programmes', the Lambert Review of Business-University Collaboration (commissioned by the Chancellor, Gordon Brown), and HEFCE's Draft Strategic Plan for the next five years. The University's own strategic objectives over the next four years have been conveyed to HEFCE in our Corporate Plan.

Broadly speaking, the Corporate Plan focussed on the four key areas of activity in higher education: research, learning and teaching, widening participation, and knowledge transfer into business and the community. During the past year we have achieved notable success in each of these areas. The University's pre-eminence in the field of ageing research was recognised by the award of a third successive Queen's Anniversary Prize for Higher and Further Education, an outstanding achievement in this major national competition.

We maintain high standards in our learning and teaching activities, the most recent evidence of which was the award of a prestigious National Teaching Fellowship to Dr Nigel Bax, Director of Teaching in the School of Medicine and Biomedical Sciences. The sponsors of this award, HEFCE, also endorsed our Learning and Teaching Strategy, and are providing funding to underpin our innovative approaches to learning and teaching, and staff development.

Our achievement in recent years in securing additional funded student numbers was repeated in 2002/03, when the University was awarded 866 places by HEFCE (one seventh of the national total). Some of these places will be targeted at widening participation in subjects associated with the architecture, law and accountancy professions. This initiative will build on our existing activity in the Professions Progression Partnership scheme. We have also made a major investment in our staffing resource, with almost 200 new academic posts advertised in the last two sessions.

Regional interaction between universities and business is a powerful driver for the delivery of change and economic success. An important partner in this activity is Yorkshire Forward, the regional development agency, which has provided seed-corn funding for our spin-out companies and established six new Centres of Industrial Collaboration. The University is involved in three of these,

in the fields of stem cell biology, biomaterials and tissue engineering, and particle science and engineering.

Our impressive capital development programme has seen the completion of major schemes in the physical and life sciences, and the initiation of new projects in medicine and the social sciences. The momentum will be maintained through HEFCE's Science Research Investment Fund, which has allocated the University £27.7m in the second round of the initiative.

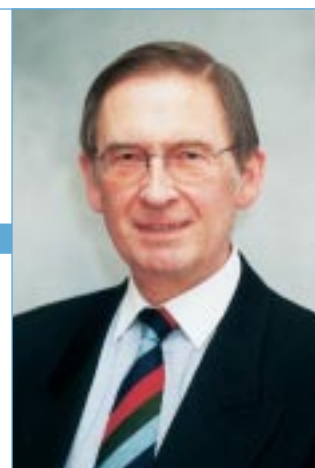
The diversity and quality of the University's work, revealed in the pages of this *Annual Report*, are a manifestation of the skills and commitment of our staff. They are the bedrock on which our future success will be built.

Professor Bob Boucher, CBE

The Vice-Chancellor and Professor Alan Walker receive the Queen's Anniversary Prize Gold Medal and Scroll from the Queen and the Duke of Edinburgh at a presentation ceremony recorded on video at Buckingham Palace, 19 February 2003.



"OUR ACHIEVEMENT IN RECENT YEARS IN SECURING ADDITIONAL FUNDED STUDENT NUMBERS WAS REPEATED IN 2002/03, WHEN THE UNIVERSITY WAS AWARDED 866 PLACES BY HEFCE (ONE SEVENTH OF THE NATIONAL TOTAL)"



## Financial Summary

### Treasurer's Report

The University has achieved a historical cost surplus of £3.4m in line with expectations. This surplus is equivalent to a margin of 1.3% of turnover. During the year the University revised its financial strategy to incorporate a medium-term target for the surplus of a minimum of the 3% of turnover. The University continued to invest in both the physical infrastructure and in academic staffing, with the intent of underpinning its position as a leading institution of higher education.

Total income rose by nearly 10% over the previous year to £261m, with expenditure increasing by 8.2% to £260m. This enabled the University to return to a positive operating surplus position. Income from HEFCE grant increased by £8m (10.1%), including an escalator of gross domestic product, additional funded student places, and increased research funding arising from excellent ratings in the Research Assessment Exercise 2001. Income from tuition fees and education contracts has increased by £11.7m (21.5%), in the main due to the buoyant overseas market and increased income from NHS contracts.

Although the very large growth in research grants and contracts experienced over the last four years has not been sustained, research overhead contribution has still increased by 21%. The scale of growth of research income in recent years is evidenced by the fact that the current year's income is 40% higher than the level five years ago.

Staff costs increased by £10m over the previous year. During the same period, average staff numbers rose by 3%, although the increase in academic staff was nearly 8%, reflecting the strategic investment in new appointments.

The total level of capital expenditure on buildings in the year was £32.8m. Capital expenditure on equipment was £9.5m, a rise of over 50% on the previous year. Of the total expenditure on equipment, £5.4m was funded from research grants, compared with £4.3m in the previous year.

The University was allocated £27.7m in the second round of HEFCE's Science Research Investment Fund, announced in February 2003. The allocation can be used to fund 90% of the cost of eligible projects, which may include the refurbishment of premises, replacement of equipment and the replacement of premises by new build or acquisition. The University has identified a number of projects to which these funds will be applied, including several that address backlog maintenance on buildings and others that are intended to further the University's aims in key areas of research.

The rating agency, Standard and Poor's, confirmed the University's long-term credit rating (AA-/stable), despite concerns about the deficit in the University of Sheffield Pension Scheme. This outcome reflects the University's continued academic quality and reputation, underpinned by its financial resilience and management. It will send a positive message to any organisation

wishing to enhance or develop their relationship with the University.

In common with many defined benefit (final salary) pension schemes, the actuarial valuation of the University of Sheffield Pension Scheme for Non-Academic Staff, carried out in April 2002, highlighted that the Scheme was under-funded on both the normal funding basis (99%) and the statutory Minimum Funding Requirement basis (83%). This resulted in a significant increase in the employer's contribution rate to 18.2% (previously 11.95%) with effect from 1 May 2003. As these additional contributions are not sustainable in the long term, the University has been reviewing its options to fund the future liabilities and to reduce the risk of the need for future deficit funding. In this context, the University remains committed to

continuing access to final salary schemes for all staff.

I look upon this set of results as the first stage of a new approach to financial management under the leadership of our new Director of Finance, Euan McGregor. The key features of the financial strategy are to target future average surpluses of 3% of turnover; to target a minimum current ratio (current assets: current liabilities) of 1.2:1 plus a risk margin equivalent to 3% of turnover; to constrain maximum borrowings; to develop sensitivity analyses for each income stream; to increase maintenance expenditure; and to review the capital programme and priorities.

The financial pressures on the University reflect the general under-funding of the sector. Despite the anticipation that this would be addressed by the White Paper, *The Future of Higher Education*, there

remains considerable uncertainty about the future funding regime. When taken in conjunction with the parallel reviews of teaching and research funding, there is a high degree of unpredictability over medium-term funding.

In a sector that is dependent on a medium to long-term planning horizon, this uncertainty inevitably causes a major dilemma in whether to defer critical investment decisions or to take increased risks in anticipation of a positive outcome. In the short term, the financial focus will remain on improving liquidity and positioning the University for the challenges ahead.

**Kim Staniforth, MA, FCA**  
*University Treasurer*

(The full version of the Treasurer's Report can be found in the *Financial Statements 2002/03*.)

## Consolidated Income and Expenditure Account For the Year Ended 31 July 2003

	Year Ended 31 July 2003		Year Ended 31 July 2002	
	£000	%	£000	%
<b>INCOME</b>				
Funding Council Grants	87,341	33.4	79,284	33.3
Tuition Fees and Education Contracts	66,032	25.3	54,326	22.8
Research Grants and Contracts	63,803	24.4	64,108	27.0
Other Income	42,046	16.1	38,129	16.0
Endowment and Investment Income	2,253	0.9	2,129	0.9
<b>Total Income</b>	<b>261,475</b>	<b>100.0</b>	<b>237,976</b>	<b>100.0</b>
<b>EXPENDITURE</b>				
Staff Costs	153,475	59.0	143,339	59.5
Other Operating Costs	92,063	35.4	82,037	34.1
Depreciation	10,258	3.9	10,558	4.4
Interest Payable	4,546	1.7	4,769	2.0
<b>Total Expenditure</b>	<b>260,342</b>	<b>100.0</b>	<b>240,703</b>	<b>100.0</b>
Deficits of Joint Ventures & Associates	(98)		(235)	
Taxation	14		(31)	
Minority Interests	88		(9)	
Profit on Disposal of Assets	61		600	
Historical Cost Depreciation Adjustment	2,198		2,250	
Realisation of Property Revaluation Gains of Previous Years	43		1,143	
<b>Historical Cost Surplus After Tax and Minority Interests</b>	<b>3,439</b>		<b>991</b>	

# Investing in the Future

CONTINUED EXPANSION OF HIGHER EDUCATION IS A KEY GOVERNMENT OBJECTIVE, AND THE UNIVERSITY HAS WON NATIONAL SUPPORT FOR ADDITIONAL FUNDED STUDENT NUMBERS. THIS SUCCESS HAS BEEN COMPLEMENTED BY A PROGRAMME OF MAJOR INVESTMENT IN NEW STAFF APPOINTMENTS AND IN THE ESTATE.

## Investing in staff

At the end of September 2003 the University advertised 56 posts across a range of academic disciplines, in the latest phase of its staff investment strategy. These posts follow the 77 advertised simultaneously in July 2002, 47 more created and filled since then, and 18 New Blood lectureships filled by the University's own postdoctoral staff. A total of £7.3m has been spent in creating 198 new academic posts.

The University's policy in making these new appointments is to recruit only those academics who excel in research and research-led teaching. Funding for the posts is available to the University as a result of income flows from its success in research and in bidding for additional student numbers, together with prudent financial management.

## Investing in students

In a competitive bidding exercise for extra undergraduate and taught post-graduate places, the Higher Education Funding Council for England awarded the University 15 per cent of the total allocation. The 866 student places won by Sheffield are worth £3.9m in additional funding. They are predominantly at the undergraduate level and will be earmarked for subject areas where demand is growing, and for widening participation in professionally accredited courses.

## Investing in the estate

Three major projects in the University's capital development programme were completed during the session. The opening of the Institute for Molecular Physiology building in April 2003



Lord Sainsbury (right) with Professor Neil Spooner (centre) and the Vice-Chancellor at the Boulby launch in North Yorkshire.

completed the Firth Court quadrangle, almost one hundred years after the original buildings were commissioned. Funded by HEFCE, the Wellcome Trust and the University, the new building provides a focus for research into the regulatory role of proteins that reside in cell membranes, their involvement in human diseases, and their potential as drug targets to combat cell malfunction.

The east wing of the Dainton Building, opened in 1960, has been stripped back to its basic structure and rebuilt to provide state-of-the-art research and teaching facilities for the Chemistry Department. Research is conducted on the upper two floors of the building, one of which accommodates the Centre for Chemical Biology. The Wellcome Trust and HEFCE have funded the conversion work for the Centre, which is investigating the functional properties of biological systems at the molecular level. Of the remaining three floors in the building, one provides office accommodation and the lower two take the form of seminar rooms and a 300-seat lecture theatre. The distinctive glass façade serves as both an acoustic barrier and a flexible internal courtyard space.



Old and new Chemistry buildings at Western Bank



The new generation synthetic turf pitch at Goodwin is available for University and community use.

Some of the world's most sophisticated controlled environment facilities have been installed beneath the Arts Tower concourse, funded by the Natural Environment Research Council. The 32 chambers are capable of simulating all major global ecosystems, including polar climates, hot deserts, tropical rain forest and temperate grassland. Temperature, humidity, light intensity and day length can all be precisely controlled and monitored (by computer) to produce the desired environmental conditions. In addition, most of the chambers have a carbon dioxide injection facility to allow experiments on the likely impacts of global environmental change on plants and microorganisms, a major research theme within the Department of Animal and Plant Sciences.

In April 2003 Lord Sainsbury, Minister for Science, officially opened the Boulby Underground Laboratory for Dark Matter Research. Funded by the Particle Physics and Astronomy Research Council, the laboratory and its complementary surface facilities operates on behalf of the UK Dark Matter Consortium, comprising the universities of Sheffield (Department of Physics and Astronomy) and Edinburgh, Imperial College and the Rutherford Appleton Laboratory. Situated more than 1km beneath the earth's surface within a salt and potash mine, the laboratory is isolated from interference by cosmic rays and benefits from an environment with

low natural radioactivity. It is destined to play a leading role in the race to identify and isolate dark matter, the 'missing mass' believed to make up at least 90 per cent of the universe.

The opening of a third artificial pitch at the Goodwin Sports Centre means that the University now has some of the best facilities of this type in the higher education sector. The new pitch differs from the existing two sand-dressed pitches by employing a rubber crumb infill in the synthetic carpet, so improving player comfort for sports such as soccer and rugby. The cost of installing the pitch and new floodlighting

has been met in part by a grant from the Football Foundation – a funding partnership between Sport England, the National Lottery and the Premiership, which is designed to strengthen links between football and the community.

Local schools and community groups will have access to the pitch and to training sessions hosted by the Football Association at the Goodwin Centre. These include youth soccer development, coaching and referees courses, for both boys and girls. The pitch is also attracting a significant level of usage by professional football clubs in the region.

Left: Some of the 32 Controlled Environment Chambers. Right: Simulated 'paddy field' conditions for the growth of tropical rice in one of the chambers.



Institute of Molecular Physiology building at Firth Court.



# The Dividend of Research

THE UNIVERSITY HAS AN ENVIABLE REPUTATION AS A MAJOR RESEARCH-LED INSTITUTION WITH INTERNATIONAL RESEARCH EXCELLENCE ACROSS A BROAD RANGE OF ACADEMIC DISCIPLINES. THIS WAS CONFIRMED DURING THE SESSION BY THE AWARD OF A THIRD PRESTIGIOUS QUEEN'S ANNIVERSARY PRIZE.

## Research awards and appointments

The outstanding quality of research in the University has been recognised in a number of prestigious awards made to staff by learned societies and educational trusts, as recorded in the Honours and Distinctions section of this Report. In addition, the Department of Animal and Plant Sciences gained three Royal Society Research Fellowships – the largest departmental allocation in the country – providing up to ten years of funding for postdoctoral researchers Dr Virpi Lummaa, Dr Owen Petchey and Dr Andrew Russell.

Professor Richard Eastell, Research Dean in the School of Medicine and Biomedical Sciences, has been appointed Director of Research and Development by the Sheffield Teaching Hospital NHS Trust. His involvement with both the University and the Trust will help the two institutions to align their research strategies, co-ordinate the implementation of research governance, and develop facilities for research.

## New research centres

Among the new research centres established in 2002/03 was the Centre for Stem Cell Biology, which brings together groups working on the biology of human embryonic stem cells and the development of their potential use in therapeutic applications, drug discovery and toxicology. The Centre also provides specialist training programmes and

facilitates access to resources for embryonic stem cell research.

Rail Research UK, a £7m centre involving Sheffield and six other universities, has been set up by the Engineering and Physical Sciences Research Council to work alongside industry with the aim of creating a world-class rail system for the UK. Other new research centres include the South East European Research Centre, Centre for European Social and Cultural Studies, Centre for the Study of the Bible in the Modern World, Centre for Criminological Research, Centre for Bayesian Statistics in Health Economics, and the Centre for Signal Processing in Neuro-imaging Techniques.

## PhD with Integrated Studies

Following the successful introduction in 2002 of the four-year PhD with Integrated Studies (formerly known as the New Route PhD) in three subjects, the University is offering a further 10 programmes that combine a specific research project with coursework and professional skills development.

The new programmes are Advanced Architectural Studies; City, Society and Planning; Control and Systems Engineering; Computer Science, Dryland Environment Science; Education Policy and Practice; Human Resource Management; Molecular Microbiology; Politics and International Relations; and Probability and Statistics.

## European Framework 6 Office

Specialist staff from the Research Services Department have joined up with a dedicated team of accountants from the Finance Department to help maximise the University's income from the European Framework 6 Programme, the EU's main mechanism for funding research in Europe.

The European Framework 6 Office provides a complete support service to

academic staff, from development of the original proposal, through negotiation of the contract, to delivery of the completed project. The aim is to develop a standardised institutional approach to Framework 6, achieving best practice and quality management.

## Research governance

In recent years the University has been active in further strengthening its

research support infrastructure. This now includes a set of guidelines on research quality assurance standards and policies: *Good Research Practice Standards* and *Ethics Policy for Research Involving Human Participants, Data and Tissue*. The guidelines reaffirm the University's high standards of research practice and will act as a valuable learning reference for new and developing researchers.

1841 courtroom scene (reproduced courtesy of Mark Herber from *Criminal London: A Pictorial History from Medieval Times to 1939*).

**OLD BAILEY TRIALS ON-LINE.** Between 1674 and 1834 the proceedings of the Central Criminal Court in London – the Old Bailey – were published eight times a year. They provide a wealth of detail about everyday life, as well as valuable evidence for studies on the history of crime, justice and punishment.

Details on over 100,000 criminal trials are now freely available on a fully searchable website ([www.oldbaileyonline.org](http://www.oldbaileyonline.org)) as a result of a collaborative research project involving the Humanities Research Institute at the University of Sheffield and the Higher Education Digitisation Service at the University of Hertfordshire. The records are being posted on the website in stages, and the entire archive will be completed by mid 2004.

Funding in excess of £700,000 has been awarded to the project directors, Dr Robert Shoemaker (Sheffield) and Professor Tim Hitchcock (Hertfordshire), by the Arts and Humanities Research Board, the New Opportunities Fund and the two universities.

## ROYAL ACCOLADE FOR AGEING

**RESEARCH.** Sheffield has joined a select group of universities in winning a third Queen's Anniversary Prize, for its research aimed at improving the quality of life of older people. The importance of this research lies in the fact that within five years there will be more pensioners in the population than people under the age of 17, for the first time in British history.

The University's winning bid in 2002 highlighted its pioneering research in key

areas of ageing. These include the introduction of new techniques for the diagnosis and treatment of osteoporosis (a disease that affects one in three women over the age of 50); developing new approaches to the care of people who are terminally ill or suffering from long-term illnesses; understanding the causes of homelessness in older people; raising the effectiveness of the care of older people in hospitals, nursing homes and domestic residences; investigating the impact of social and economic policies on older

people; and improving rehabilitation therapies, services and outcomes.

Part of the national honours system, the Queen's Anniversary Prizes scheme recognises outstanding achievement by UK universities and further education colleges in areas that benefit both the institution and the nation as a whole. The University's previous winning bids were concerned with environmental outreach to industry and commerce (2000) and the work of the Humanities Research Institute (1998).

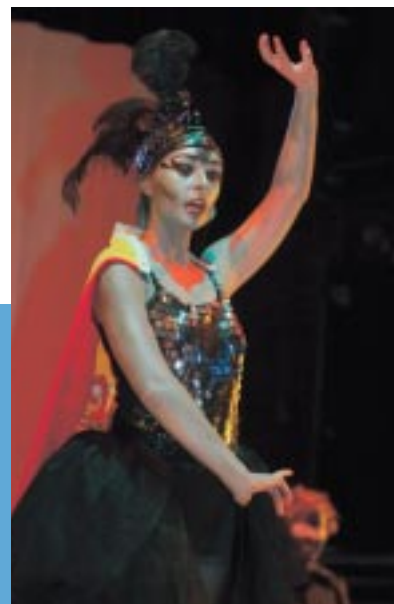
Professor Richard Eastell with a patient in the Osteoporosis Centre.



# Teaching and Learning

INNOVATIVE TEACHING IS A CENTRAL TENET IN THE UNIVERSITY'S CORPORATE STRATEGY. THE HIGH STANDARD OF THIS ACTIVITY AT SHEFFIELD HAS BEEN RECOGNISED BY HEFCE IN THE AWARD OF A NATIONAL TEACHING FELLOWSHIP.

The University's Learning and Teaching Strategy is built around the delivery of courses that are stimulating, informed by research, and relevant to students' needs in society and the workplace. In approving the University's strategy document for the next three years, the Higher Education Funding Council for England allocated the sum of £805,000 to facilitate innovation in key areas such as curriculum development and staff training.



Innovative teaching programmes in the University are supported through the Learning and Teaching Development Grants Scheme. During the session 14 projects were commissioned, including an automatic computer-aided tutorial system and a WebCT course on data analysis in biology for postgraduates. The amount of teaching material delivered via networked WebCT continues to increase, with 10,888 students accessing on-line resources in 412 course modules in 2002/03. The Certificate in Academic Practice, which provides initial training in research, teaching and administration, was taken by 74 staff this year, mainly probationary lecturers.

Minerva, the Medical School's managed learning resource, was

introduced in 2002/03, building on the existing Sheffield Networked Learning Environment. It is a web-based initiative for students and staff, providing access to the core curriculum database and allowing staff to upload additional material to support their lectures. Through Minerva, students are able to access learning resources, ascertain their clinical placements, undertake formalised assessments, and file material into their personal portfolio (such as written work and the results of their assessments).

Under its 'Skills for Access' scheme, the Learning Media Unit was awarded a grant of £150,000 by HEFCE to produce a set of tutorial materials that reflect best practice in the delivery of e-learning courses to students with learning difficulties and disabilities. Upon completion of the project, the materials will be made widely available to higher education staff in the UK and overseas. The project is being conducted in

**STUDENTS STAGE HISTORIC OPERA.** A novel collaboration between the Departments of Music and Hispanic Studies led to the British premiere of a 17th-century Spanish opera, *La púrpura de la rosa*, in the University Drama Studio in February 2003. Selected as a winner of a Senate Award for Teaching Excellence, the project involved students and staff pooling their linguistic, cultural and musical expertise within the exciting framework of Latin American Baroque. They were joined by students from a number of other departments, who performed under the musical direction of the internationally-celebrated musician, Andrew Lawrence-King, who had previously made a recording of the opera.

The opera was a major learning experience for the 60 participating students, who were required to perform musically to a high standard and to sing in Spanish for the first time. It was also performed in Manchester, Nottingham, Galway and Dublin. This highly successful project is being disseminated in the form of a book, conference presentations and a video.

Top: Belona, sister of Mars, played by Natalie Ashton.

Left: Venus (Felipa Lã) and Adonis (Penny Manser) in the climactic love scene of the opera.

collaboration with the Digital Media Access Group at the University of Dundee.

In September 2003, the University of Sheffield and Sheffield Hallam University jointly hosted the tenth annual conference of the Association for Learning Technology – the largest conference in the UK dealing with the application of communications and information technology in further and higher education. Over 520 delegates attended the event, which included 120 refereed research papers as well as short papers, workshops, posters and symposia.

The Quality Assurance Agency for Higher Education has introduced a new assessment procedure for evaluating the student learning experience across the full range of educational provision (ie undergraduate and taught postgraduate courses and postgraduate research study). The Institutional Audit will investigate the effectiveness of institutions' internal procedures for the assurance of quality and standards, supported by a detailed 'sampling' of their operation at individual subject level. It replaces the QAA's reviews of individual subjects, conducted over the period 1993-2001.

A new internal Independent Evaluation of Teaching procedure has been introduced by the University as a core quality assurance mechanism, to run alongside the well-established Annual Review of Teaching Quality. Three IET visits were conducted during the session – to Chemistry, Journalism Studies and Law – when external and internal panel members undertook a detailed evaluation of taught provision and the students' learning experience.



Patients are set to play a greater role in healthcare education in a new scheme developed by Dr Nigel Bax (pictured right).

**NATIONAL TEACHING FELLOW.** Dr Nigel Bax, Director of Teaching in the School of Medicine and Biomedical Sciences, has been awarded a prestigious National Teaching Fellowship by the Higher Education Funding Council for England. The £50,000 award will fund a pioneer scheme aimed at involving patients more fully in healthcare education. Volunteer patients recruited to the scheme will be trained to educate and assess healthcare students. In addition, a Patients' Council for Healthcare Education will be established, where the views of patients and patients' organisations will inform and refine curriculum development.

The National Teaching Fellowship scheme is part of a drive by HEFCE to raise the status of learning and teaching in higher education. The award recognises Dr Bax's pre-eminence in teaching and the central role he has played in developing and implementing the new patient-centred medical curriculum at Sheffield.

# Widening Participation

A FEATURE ARTICLE IN *THE FINANCIAL TIMES* ON THE UNIVERSITY'S APPROACH TO WIDENING PARTICIPATION COMMENTED: "SHEFFIELD HAS SHOWN HOW TO BUILD A SOCIALLY INCLUSIVE UNIVERSITY AND IS FAR AHEAD OF THE GOVERNMENT'S AGENDA" (MAY 2003).

Widening participation is a core element in the White Paper 'The Future of Higher Education', which reiterates the Government's intention to achieve a 50 per cent participation rate in higher education. During the session, the University introduced two new access initiatives and further developed its successful Residential Summer School. The University also reached a huge audience of young people with the televising of Professor Tony Ryan's Christmas Lectures.

## Following in Faraday's footsteps

When Professor Ryan delivered the Royal Institution Christmas Lectures in December 2002, he was following in the footsteps of some distinguished presenters, none more so than Michael Faraday who gave the first Christmas Lecture in 1825.

During his series of five lectures, entitled 'Smart Stuff', Professor Ryan gave 52 practical demonstrations to show how ingenious chemical wizardry helps to shape the modern world. Broadcast on Channel 4, the Christmas Lectures are designed to excite children about the world of science and to demonstrate in a practical way its importance to everyday life.

Professor Ryan presented highlights of his lectures as part of the National Science Week celebrations, organised by the University of Sheffield and Sheffield Hallam University in March 2003.

## Professions Progression Partnership

Building on the success of the Sheffield Outreach and Access to Medicine Scheme (SOAMS), in which students from disadvantaged backgrounds are encouraged to enter higher education and study medicine, the University has piloted outreach activities in four other professions where there is under-representation in terms of parental occupation and social class: accountancy, architecture, journalism and law.

Students in Years 11 and 12 at selected regional schools were invited to take part in the Professions Progression Partnership, which ran over a seven-month period. Activities included talks and presentations by staff working in the four areas, visits by staff from associated professional bodies, and educational visits to the places of work in each of the areas.

Students interested in studying law, for example, sat through cases being tried in the Sheffield Law Courts, while those considering architecture as a career were taken on a site visit to meet the architect concerned with the project. Opportunities were also provided for the school pupils to meet up with undergraduate students from the University to gain first-hand knowledge about their courses.



Summer School pupils meet up with their student ambassadors in Stephenson Hall of Residence.

**RESIDENTIAL HIGHER EDUCATION SUMMER SCHOOL.** Ninety Year 11 pupils from eight local LEAs took part in a one-week Residential Summer School based in Stephenson Hall of Residence in July 2003. Students could follow either a Science/Engineering or Arts/Social Science programme under the guidance of student ambassadors from the University.

## Higher Education Awareness Conferences

In this project, a series of conferences were organised over a five-month period for pupils from disadvantaged backgrounds, their parents and their teachers. Presentations at the conferences dealt with topics such as What is Higher Education? Applying to University, The Transition from Home to University, and Student Finance. University students were on hand to talk to the pupils and their parents about campus

life, and they also hosted visits to academic departments and halls of residence. The teachers were able to discuss the latest developments in higher education with their University staff colleagues.

and they also hosted visits to academic departments and halls of residence. The teachers were able to discuss the latest developments in higher education with their University staff colleagues.

## Other access initiatives

Widening participation events were also organised for other external agencies, including the Windsor Fellowship, a charity that works to raise the aspirations and attainment of students from black

higher education awareness sessions for both students and parents.

In a separate project, a dedicated summer school for Year 11 students interested in engineering was held over four days in July 2003, when 80 pupils attended, double the number of the previous year. The students were drawn from schools in Yorkshire, Derbyshire and Nottinghamshire.

and ethnic minority groups; and the Villiers Park Educational Trust, which organises programmes of university activity for sixth formers and their teachers in the fields of English Literature, Geography and History.

In addition, the University worked with the Royal National Institute for the Deaf and Barclays to arrange a residential 'head-start' summer school for 20 deaf and hard-of-hearing pupils who are thinking about applying to university.



Scenes from Professor Tony Ryan's Royal Institution Christmas Lectures, captured from a video-recording.

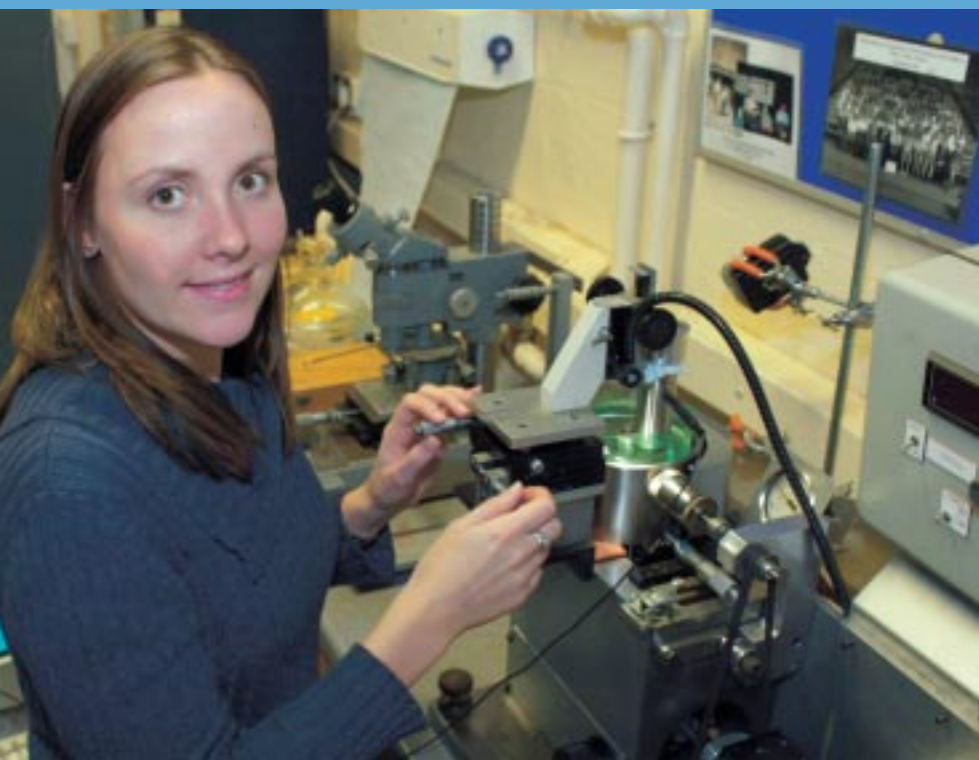
# Enterprise and Innovation

AS A SUCCESSFUL RESEARCH-LED INSTITUTION, THE UNIVERSITY HAS AN IMPORTANT ROLE TO PLAY IN SPINNING OUT COMPANIES OF HIGH TECHNICAL MERIT AND IN PRODUCING WELL-QUALIFIED GRADUATES WITH ENTERPRISE SKILL AND FLAIR.

Enterprise and innovation are important components of the University's teaching and research programmes, which draw on the expertise of staff in the Sheffield-based White Rose Centre for Enterprise, a government-funded initiative involving the universities of Leeds, Sheffield and York. Its staff are supporting the introduction of a wide range of course modules in academic departments that are aimed at developing creative and commercial skills in undergraduate and postgraduate students.

New degree courses are also developed in collaboration with WRCE. The four-year MEng in Mechanical Engineering with Industrial Management is aimed at students who see their future career in management roles, often within the engineering industry, rather than in specialised technical engineering. The course is designed to produce high-calibre mechanical engineers, who are also potential entrepreneurs with strategic vision, leadership and innovation qualities.

**WISE STUDENT.** Mechanical engineering undergraduate Jennifer Pritchard received the Ford WISE Prize at the Young Woman Engineer of the Year Award, held at London's BT Centre in October 2002. By celebrating excellent role models, Ford and WISE (Women into Science and Engineering) aim to attract more young women to study engineering. Candidates for the award are selected from universities nationwide, with the help of the professional engineering institutions. When she joined the University, Jennifer had already won the Young Engineers for Britain Working in Industry Award, for a project she carried out at First Hydro's Dinorwig power station in Llanberis. First Hydro Company are now sponsoring her studies in Sheffield.



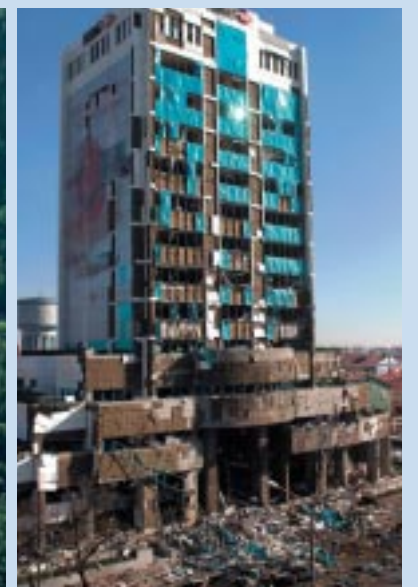
Two new degree courses in the Faculty of Pure Science contain a significant enterprise element in them: Chemistry with Enterprise Management and Physics with Enterprise Management. The Management School has created a new lectureship in Strategy and Enterprise, and its popular MBA module, Experiencing Enterprise, involves groups of students working in local industry on consultancy assignments. These have included reviewing the market options for digital library products, developing a website and e-business strategy for a metals fabricator, and investigating ways of improving quality in a manufacturing process.

WRCE also funds enterprise learning projects in the three universities, with the aim of disseminating good practice and teaching material across the institutions. One such project at Sheffield is concerned with managing innovation in the digital economy, while another, involving Sheffield and Leeds, is intended to streamline collaboration between universities and industry in formulating group design projects for final-year civil engineering students.

Increasing numbers of students are entering the annual Business Plan competition organised by WRCE. The scheme requires contestants to prepare a business plan for a new product, service or company that is sufficiently viable to win the support of financial backers. In the 2002 competition, two Sheffield teams collected awards worth £5,000 each for their business plans to set up companies producing custom-built PCs and laptops for students, and high-tech skateboards.



Above: Hohenwarte Dam on the Saarle River, Germany.



Top right: HSBC headquarters in Istanbul following a powerful bomb explosion in November 2003.



Right: Shearband being installed in the USA.

**The commercial exploitation of University research is the responsibility of Sheffield University Enterprises Ltd, working in collaboration with the Research Services Division and the White Rose Centre for Enterprise. More than 40 businesses have been spun-out by SUEL, the most recent of which are three companies associated with the Centre for Cement and Concrete, the largest academic unit of its kind in the UK.**

#### BLASTECH LTD

Recent terrorist attacks in America, Turkey and Saudi Arabia have highlighted the need for buildings to be constructed in such a way that they offer greater resistance to bomb blasts. The cost of large-scale testing of these and other events, such as vehicle impact and accidental explosions, is often prohibitively high. Blastech Ltd provides

industry with a high-quality, small-scale experimental work capability for validating computer models of such events. It works in concert with industry to assess the consequences of a particular threat, and to design preventative measures.

#### CONTEQUE LTD

Conteque Ltd has been set up to exploit three novel reinforcement systems for structural concrete. The first of these, Shearband, is manufactured from thin, elongated metal strip and is currently being exploited by Abcot Inc in the USA. External Lateral Confinement of Concrete is another patented technology, which enables concrete columns to be strengthened externally. This technology has important uses in earthquake locations and in providing greater resistance to structures subjected to

vehicle impact. Fibre Reinforced Polymer (FRP) reinforcement bars have been developed as a replacement for steel reinforcement in aggressive environments, in which durability is a major concern.

#### MATERIAL STATE LTD

Material State Ltd provides advanced theoretical and numerical solutions to complex mechanics problems. The company has established a superior Finite Element modelling approach for analysing concrete and rock subjected to high multi-axial stresses and elevated temperature. This advanced form of analysis is essential when addressing safety critical structures such as dams, tunnels and nuclear pressure vessels.



## Preparing for Employment

THE DEVELOPMENT OF EMPLOYABILITY SKILLS IN STUDENTS IS A CORE ELEMENT IN THE UNIVERSITY'S MISSION, AS TOO IS THE CO-ORDINATION OF WORK EXPERIENCE OPPORTUNITIES IN TERM TIME AND IN VACATIONS.

### Employability development

Employability is a primary concern for students, employers and funding agencies. Alongside the work done by academic departments in this field, the Careers Service organises employer-led skills development sessions, drawing on the expertise of employers such as Rolls-Royce, BT, KPMG and ASDA Wal-Mart.

There are also many examples of close collaboration between academic departments and the Careers Service in student employability development. The Department of Civil and Structural Engineering, for example, developed a Careers and Skills event that enabled students from the department to meet with alumni and with employers such as Arup and Mott MacDonald. All 120 second-year students in the Department of Electronic & Electrical Engineering participate in the module 'Human Resource Management', which this year included inputs from BAE Systems. In the Department of Biomedical Science, the popular module 'Communication and Presentation Skills' is delivered jointly with the Careers Service.

For law students, there are specific events focusing on topics such as work experience, choosing a legal practice course and careers at the Bar, as well as a dedicated website (Law Directions), an experienced careers adviser who works just with Legal Practice students, and an annual Legal Fair. In 2003 the fair attracted a record number of 936 students and 74 exhibitors, including

major employers such as Baker & McKenzie, Clifford Chance, DLA and the Government Legal Service.

### Learning from work experience

Almost all students will work at some time in their University career, whether in course-related vacation work, projects or placements, or in casual part-time work. A suite of web pages has been introduced by the Careers Service to assist academic staff develop and deliver work-based learning activities for their students.

The Summer Skills Certificate – supported by PricewaterhouseCoopers, BT, AvestaPolarit and Voluntary Action Sheffield – used the Work Experience Portfolio to enable 65 students to record and capitalise on the employability skills they had developed from vacation work.

### Graduate Link

At the regional level, the Careers Service co-ordinates the activities of Graduate Link on behalf of all higher education institutions in Yorkshire, with funding provided by Yorkshire Forward. It offers a recruitment service for graduates and regional employers, and has to date promoted over 4,000 graduate opportunities via its popular website.

### Assuring quality provision

In November 2002 Sheffield became only the second university to gain national accreditation for the quality of its careers guidance services for students. The coveted Matrix Quality Standard was awarded to the Careers Service by the Guidance Accreditation Board, following an intensive three-day review of the services, systems and procedures available to students, graduates, employers and staff of the University.

The Careers Service is an integral part of the University's Central Services, which achieved the Investors in People National Standard in November 2002, for its commitment to staff development. Registrar and Secretary Dr David Fletcher celebrates the award with Jan Beesley, Acting Director of the Staff Development Unit.



# In Partnership with Industry and Commerce

THE UNIVERSITY IS COMMITTED TO BUILDING PRODUCTIVE RELATIONSHIPS WITH BUSINESS THAT SERVE THE NEEDS OF BOTH PARTIES AND CONTRIBUTE TO THE ECONOMIC DEVELOPMENT OF THE REGION AND THE NATION.

## Lambert Review

During the session the Government commissioned a major review into how the long-term links between business and universities could be strengthened in order to benefit the British economy. The Lambert Review of Business-University Collaboration recognised that while the UK performs well in terms of the academic quality of its science and technology base, it is not as good as some other countries, notably the USA, in commercialising the knowledge generated in its universities.

In its formal response to the review, the University identified a series of examples of good practice and highlighted the challenges that it faces in developing and enhancing these activities. The University emphasised that the basis for successful business-university collaboration is matching the institution's capabilities and the needs of business in a mutually beneficial way.

## SportsPulse launched

Sports Minister Richard Caborn was "virtually" put through his paces by tennis star Tim Henman when he



launched SportsPulse at the English Institute of Sport, Sheffield, in October 2003. SportsPulse is a business partnership that is aiming to make South Yorkshire an international centre for the research, development and commercialisation of innovative sports products. Partners in the project include the University of Sheffield, Sheffield Hallam University, Sheffield Chamber of Commerce and Industry, and a number

## FORENSIC ANTHROPOLOGY UNIT.

Researchers in the Medical School's Forensic Anthropology Unit are collaborating with private and public sector organisations in projects aimed at refining and improving techniques for the detection of crime. Under the Knowledge Exchange scheme, a local industrialist worked with the Unit to develop commercially competitive methods in 3D computer visualisation for application in facial reconstruction, an area of considerable importance for the identification of victims in cases of homicide or suspicious death.

The Unit is also collaborating with an international consortium of crime prevention and detection agencies, including the Federal Bureau of Investigation, to develop a system capable of producing state-of-the-art anthropometric "face prints" of offenders captured on CCTV. These will then be compared with a 3D face print of a suspect, providing police and lawyers with evidence that is legally admissible in court proceedings.



Dr Martin Evison of the Forensic Anthropology Unit is seen with two FBI representatives at the public launch of the Computer Assisted Facial Identification Research Project at the Magna Science Adventure Centre. *Right:* 3D visualisations of Dr Evison's face.

of private companies. It is backed by a grant of £1m from the European Union Regional Development Fund,

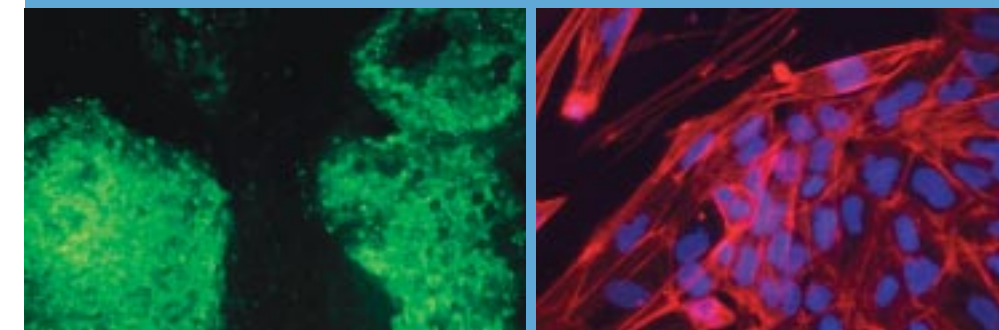
The Director of SportsPulse, Dr Steve Haake, also leads the Sports Engineering Research Group in the Department of Mechanical Engineering. The Group has a proven track record in the development of advanced sports equipment and numbers among its clients the International Tennis Federation and the England and Wales Cricket Board.

## White Rose 'super internet'

Businesses in the Yorkshire region and beyond are set to benefit from a powerful high-performance computing network developed by the universities of Leeds, Sheffield and York. The White Rose Grid will allow computers, applications, data, storage and network resources to be shared across the three universities. Widely used by the scientific and research communities, grid technology is now increasingly being recognised as offering major commercial benefits and new product opportunities for both large and small companies.

## ARC achieves global standard

The Antibody Resource Centre has achieved ISO 9001 accreditation – the global benchmark of proven quality assurance, both in terms of operating practices and product delivery. Established in 1989, the Centre produces monoclonal antibodies and other biomolecules by cell culture. Antibodies are widely used in scientific research and clinical diagnosis, and the Centre makes these valuable reagents for academic departments at Sheffield and elsewhere. It also has links with biotechnology companies for contract antibody production.



Researchers in the Centre for Stem Cell Biology have extensive experience in the culture, characterisation and biology of human embryonic stem cells, as well as their malignant counterparts – embryonal carcinoma cells.

**CENTRES OF INDUSTRIAL COLLABORATION.** Yorkshire Forward, the regional development agency, is investing £11m to establish a network of Centres of Industrial Collaboration to help meet the current and future needs of the region's growing industries. Three of the first six CICs involve the University of Sheffield.

The Stem Cell Biology CIC is based at Sheffield and will collaborate with pharmaceutical and emerging biotechnology companies in the important new field of regenerative medicine. The development of human embryonic stem cell lines has opened up the possibility of producing a range of adult cell types that could be used to replace degenerative tissues and to treat many diseases such as diabetes, Parkinson's disease, stroke and coronary heart disease.

The Biomaterials and Tissue Engineering CIC, involving the universities of Sheffield, Leeds and York, will provide research and development support for companies producing technologically advanced products for use in the fields of orthopaedics, wound care, and cardiac and cardiovascular surgery. The focus at Sheffield is on the Centre for Biomaterials and Tissue Engineering, which has already created three spin-out companies – CellTran Ltd (specialising in wound healing using patients' own cells), CellFactors plc (engineering cell lines for clinical uses) and Plasso Technology Ltd (application of surface chemistry to medical diagnostics).

The Particle Science and Engineering CIC is a partnership between the universities of Sheffield and Leeds providing expertise in all aspects of particle science and technology, using established methods and new techniques based on nanotechnology. Particle and colloid technology is of major importance to a wide range of industries, including chemical, food, personal and household products, pharmaceuticals, water, waste disposal, mining and quarrying. The Sheffield arm of the partnership is the Particulate Products Group in the Department of Chemical and Process Engineering.

## Part of the Region

THE UNIVERSITY IS COMMITTED TO PLAYING A FULL PART IN THE SOCIAL, CULTURAL AND EDUCATIONAL LIFE OF THE REGION, AS EVIDENCED BY THE EXAMPLES IN THIS SECTION OF THE ANNUAL REPORT.

### Royal visit to Botanical Gardens

The Grade II\* listed Pavilions, which form the centrepiece of the Sheffield Botanical Gardens, were officially opened by Prince Charles in September 2003. Designed by Benjamin Broomhead Taylor and completed in 1836, the three Pavilions are among the UK's oldest surviving curvilinear glasshouses, joined together by ridge and furrow Glasshouses to provide a 90-metre-long spectacle.

Prince Charles was received by the acting Lord Lieutenant of South Yorkshire, Mr Peter Lee, who introduced him to key figures involved in the £6.69m restoration programme for the Pavilions and Gardens. These included Helen Woolley of the Department of Landscape, who chairs the Restoration Steering Group and who helped to formulate the successful bid for Heritage Lottery Funding of £5 million, and Dr Sue Kohler, Chairman of the Friends



MIG JULIEN



Top: The refurbished Victorian Pavilions and Glasshouses in the Sheffield Botanical Gardens. Above left: Dr Sue Kohler with Prince Charles. Above right: Prince Charles unveils the commemorative plaque, watched by Helen Woolley and Peter Lee.

of the Botanical Gardens and of the Sheffield Botanical Gardens Trust.

Matched funding of £1.1m has been raised so far, towards a target of £1.25m by September 2004. In the final phase of the project, the Gardens will be rejuvenated to produce a mosaic of areas that have different educational themes.

### Question time with Michael Grandage

In March 2003 the University hosted 'An Evening with Michael Grandage', when members of the public engaged in a lively two-hour question and answer session on post-war British theatre. Appointed Associate Director of Sheffield Theatres in 2000, Michael Grandage was the University's Maisie Glass Associate Professor in Theatre in 2002/03. He combines his Sheffield Theatres appointment with the post of Artistic Director at the Donmar Warehouse in London.

### Higher Education Active Community Fund

The University is participating in a government-funded initiative – the Higher Education Active Community Fund – which is designed to encourage greater involvement of students in community activities. At Sheffield, HEACF projects are being run in the School of English, the Medical School and the Union of Students (page 25).

In the Acting Together project, students in the School of English are given the opportunity to create Theatre in Education activities for local schools. Programmes devised by the students have included 'Telling Tales',



Michael Grandage (centre) in Firth Hall during a 'Question and Answer' evening on post-war British theatre. He is joined on stage by Professor Dominic Shellard (left) and Dr Bill McDonnell of the Department of English Literature.

in which four traditional tales from around the world were brought to life using songs, dance and costumes; the Chaucer School project, in which students helped pupils create a devised drama for their GCSE examination; and the Sheffield Flood and Viking Projects, in which children used theatre to explore history. Students have also worked directly with teachers in class, helping them deliver the drama curriculum. Acting Together is offered as an approved module in the University at levels two and three.



The Community Support Group Project in the Medical School provides opportunities for students to help support people in Rotherham who have long-term disabilities. Following initial training sessions in disability awareness, volunteers have been placed with a wide range of organisations, including the local Multiple Sclerosis Society, Riding for the Disabled, the Linkline telephone support system run by Age Concern, Sue Ryder Care Foundation, and the Learning Difficulties Unit in the Department of Social Services. Participants are able to make a real contribution to the welfare of individuals and the community, and to learn more about the nature and causes of long-term disabilities.

### Promoting science in rural schools

Two University initiatives aimed at taking science into rural Derbyshire schools were backed by Britain's most distinguished scientific academy and a leading multi-national company. Dr Mike Diprose (Department of Electronic and Electrical Engineering), who was behind both initiatives, was awarded a grant by the

Royal Society to work with Curbar Primary School on a project entitled 'Why Aeroplanes Fly'. After engaging in classroom-based project work, including making hot air balloons, the Y5 and Y6 children spent a day at Doncaster Aeroventure Museum to gain first-hand experience of flying machines.

In the second project, financed by Shell Education and the Derbyshire Business Education Partnership, Dr Diprose gave repeat performances of his 'Magic of Magnetism' lecture in Eyam Church Hall to parties of pupils from 10 local schools. Partnerships of this kind allow teachers to increase their scientific knowledge and give school pupils a taste of science and engineering today and their relevance for society.

Curbar pupils at the Doncaster Aeroventure Museum.



Students act out a traditional tale in the Acting Together project.

# The International Dimension

AT THE HEART OF THE UNIVERSITY'S INTERNATIONAL STRATEGY IS THE ESTABLISHMENT AND MAINTENANCE OF LONG-TERM PARTNERSHIPS WITH INSTITUTIONS AND WITH OUR GRADUATES.

## Sir Sze-yuen Chung Resource Centre.

A new resource centre has been established in the School of East Asian Studies to provide facilities for MA and MSc students studying for one of the School's nine Masters degrees in East Asian, Chinese, Japanese and Korean Studies. Students taking Masters degrees by distance learning will also have use of the new facilities when they visit Sheffield for 'residentials'. The Centre was formally opened by the Vice-Chancellor in April 2003.

The Centre has been funded by a generous donation from Sir Sze-yuen Chung, a Sheffield Mechanical Engineering graduate (PhD 1951) and honorary graduate, after whom it is

named. Support was also provided by the School of East Asian Studies and the University's Alumni Foundation. Sir Sze-yuen Chung has had a distinguished career as a leading Hong Kong businessman, politician and educator.

## South-East Europe Research Centre

The University of Sheffield and CITY Liberal Studies in Thessaloniki have launched a new research initiative – the South-East Europe Research Centre – to support social and economic development and political integration in the region. The Centre will also contribute to the region's growing research capacity by offering doctoral-level training that will increase the number of well-qualified social scientists.



CITY Principal Vannis Ververidis speaking at the launch of SEERC, March 2003.

In its early years the Centre will focus on four main areas of research and policy analysis: economic activity and business prospects; IT infrastructure and policy development; political and social aspects of EU accession; and regional cultural context.



Left: Sir Sze-yuen Chung with the Vice-Chancellor in Hong Kong.

Below: Sir Sze-yuen Chung Resource Centre in the School of East Asian Studies.



The two institutions have enjoyed a highly successful partnership over the past ten years, and in 1997 the College became an Affiliated Institution of the University. In 2002/03 there were 485 undergraduate and 330 postgraduate students at CITY undertaking University-validated programmes in business studies, computer science, software engineering, information systems and psychology.

## Caribbean degree congregations

Fifty-five postgraduate students from the Caribbean islands of Trinidad & Tobago and St Lucia were presented with their degrees by the Vice-Chancellor at special congregations held in Port of Spain and, for the first time, St Lucia, in January 2003. Most of the students had been studying education-related subjects by distance learning via the Department of Education in Sheffield. During the St Lucia ceremony, the Vice-Chancellor conferred the honorary degree of Doctor of Laws on the Governor General, Dame Pearlette Louisy.



## Worldwide Universities Network

The Worldwide Universities Network provides a valuable mechanism for the 13 partners – six British, five American and two Chinese universities – to consolidate their international standing as research-led institutions, to collaborate in areas of common expertise, and to share their research and teaching strengths.

The University of Sheffield has played a leading role in formulating a robust quality assurance framework for WUN, by chairing the UK Quality Assurance Group. Included among its reports to the WUN Academic Development Board is a good practice guide for the approval of distributed learning programmes, including e-learning and distance learning. The Head of World Campus at Penn State University and the Director of Programmes at UKeU were among the speakers at internal Information Forums organised for staff in the University.

Sheffield is the lead institution in two research exemplar groups – Advanced Materials and Nanotechnology, and Stem Cell Biology. WUN was a co-sponsor of the UK's first practical training course for the culture, differentiation and analysis of human embryonic stem cells, organised in July 2003 by the Centre for Stem Cell Biology at Sheffield.

Dame Pearlette Louisy, who has made a major contribution to educational development in the Caribbean, signs the Graduates' Register after the degree ceremony in St Lucia.



Solo performer at the 2003 International Food Evening in the Octagon Centre.

# The Union of Students

THE UNION'S REPUTATION FOR EXCELLENCE IS BUILT ON THE QUALITY OF ITS SERVICES AND ACTIVITIES AND ON ITS ABILITY TO CHANGE IN RESPONSE TO THE NEEDS OF ITS MEMBERS.

Student representation and welfare remained a priority in the Union during 2002/03. Over 140 Course Representatives – a record number – were trained by the Student Representation Co-ordinator. Feedback was obtained from all Course Representatives on teaching quality, assessment methods and student representation in their departments, in preparation for the 'Student Written Submission' to the Quality Assurance Agency, as part of the Institutional Audit of the University in November 2003. The network of paid Departmental Union Representatives has strengthened the Union's connection with students in departments and attracted considerable interest from other students' unions.

The Union's Nursery achieved the top rating from OFSTED in its annual inspection. It continued to offer students low-priced childcare, while attracting commercial income from working parents throughout the city. Holiday playschemes organised by the Union also provided a low-cost student service, funded by income from non-student users.

Entertainments attendances in the Union rose by 42 per cent during the session, to 226,000, generating a 51 per cent increase in total income. The bars continued to hold their position in an increasingly competitive market, achieving a 16 per cent increase



Union President Katie Buckle (centre) helps celebrate the Club Mirror award.

in turnover. The Union also reinforced its national standing in the wider leisure sector, with Bar One winning the Club Mirror 'Promotion of the Year' for the second year running. A Coffee Revolution franchise was opened in the Coventry Students' Union, and other unions have expressed an interest in the brand.

Maintaining the Union's impressive record at the NUS/*Guardian* Student Media Awards, Alice Tarleton (English Literature) won Student Journalist of the Year for the second year running; Matt Withers (Germanic Studies) was Student Feature Writer of the Year; and Rob Preece (English Literature) was runner up as Student Sports Writer of the Year, in the October 2002 ceremony.

A grant from the Higher Education Active Community Fund has transformed the organisation of voluntary activities in the Union. Sheffield Volunteering,

launched in October 2002, has created and filled over 380 new volunteer opportunities and was given a major profile in *The Guardian*.

Student volunteers are active in local schools, where they provide literacy and numeracy support, tutoring and mentoring, language tasters and sports coaching. They also play an important community role by working with children and young people with learning disabilities, the homeless, refugees and the elderly. In March 2003, 75 students volunteered to complete a task in one day for their local community, as part of the 'Just Do It' initiative. Since it was set up, Sheffield Volunteering has organised student volunteers for 50 local charities.

In November 2002 the Union was successful in its 'Investor in People' reassessment, demonstrating its continuing commitment to staff development. The Union is also meeting the needs of the student body – 98 per cent of students interviewed in the yearly exit survey stated that the Union had contributed positively to their time at University.



Left: Catering for every need – academic as well as social.

Opposite: Students rate the Union very highly for its customer care.



Top: 231 pupils from four schools took part in the Sports Day organised by Sheffield Volunteering at the Goodwin Centre in April 2003.

Above: Student Volunteers building new play equipment for Pitsmoor Adventure Playground.

# Honours and Distinctions

## Professor Loveday Alexander

### Biblical Studies

Appointed a Canon of Chester Cathedral.

## Dr Nigel Bax

### School of Medicine and Biomedical Sciences

Awarded a National Teaching Fellowship in recognition of his ability to influence and inspire students, staff and the teaching profession as a whole.

## Professor Bob Boucher

### Vice-Chancellor

Elected Chairman of the White Rose Universities Consortium. Elected to the Board of the Universities and Colleges Employers' Association (UCEA). Elected a member of the Russell Group Executive. Appointed a Trustee of the National Portrait Gallery.

## Central Services

Achieved the Investors in People National Standard, in recognition of its commitment to staff development.

## Professor Hywel Davies

### Engineering Materials

Elected a Fellow of the Royal Society of Engineering, for his research on metallic glasses, nanocrystalline alloys and other rapidly quenched materials.

## Professor Robin Dennell

### Archaeology

Awarded a British Academy Research Professorship for research on the stone age of Asia.

## Dr John Divers

### Philosophy

Awarded a British Academy Research Readership for a study on 'Disposing with Possible Worlds'.

## Professor Paul Dolan

### School of Health and Related Research, and Economics

Awarded a Philip Leverhulme Prize in Economics, for research into quality adjusted life years associated with different degrees of health state impairment.

## Professor Gordon Duff

### Genomic Medicine

Appointed Chairman of the UK's Committee on Safety of Medicines. Also appointed to the Department of Health's Advisory Group on Genetics Research.

## Professor Richard Eastell

### Clinical Sciences North

Appointed Director of Research and Development by the Sheffield Teaching Hospitals NHS Trust.

## Dr Matthew Flinders

### Politics

Awarded the 2002 Harrison Prize by the Political Studies Association of the UK.

## Professor David Hall

### General Practice and Primary Care

Received a knighthood in the New Year Honours List for his services to medicine.

## Professor Louise Heathwaite

### Geography

Elected a Vice-President of the International Association of Hydrological Sciences.

## Professor David Howe

### Electronic and Electrical Engineering

Elected a Fellow of the Royal Academy of Engineering, for his research on electrical machines and controlled drive systems.

## Professor Phil Jones

### Pro-Vice-Chancellor

Appointed to the Higher Education Funding Council for England's Quality Assurance and Learning and Teaching Committee.



Left to right: Mr David Moore with the Chancellor's Medal; Professor Sue Read at her investiture ceremony at Buckingham Palace; Professor James Underwood; Ms Lisa Smith.

## Department of Law

Won the English National Finals of the Telders International Law Moot Court competition and represented England at the International Court of Justice at The Hague.

## Professor Derek Linkens

### Automatic Control and Systems Engineering

Elected a Fellow of the Royal Academy of Engineering, for his research on biological systems modelling and control.

## Professor Peter Maitlis

### Chemistry

Awarded an Emeritus Research Fellowship by the Leverhulme Trust.

## Professor David McClean

### Law

Elected to a Fellowship of the British Academy, in recognition of his scholarly distinction in private international law.

## Professor April McMahon

### English Language and Linguistics

Awarded a Fellowship of The Royal Society of Edinburgh, for her contribution to the understanding of the Scottish language.

## Mr Brian Mole

### Security Adviser

Elected Chairman of the Association of University Chief Security Officers.

## Mr David Moore

### Final-year Medical student

Received the Chancellor's Medal 2003, in recognition of his role in establishing the Sheffield Medical Teaching Website.

## Ms Jennifer Pritchard

### Second-year Mechanical Engineering student

Won the Ford WISE Prize at the Young Woman Engineer of the Year Award ceremony.

## Professor Mark Rainforth

### Engineering Materials

Awarded the Rosenhain Medal and Prize by the Institute of Materials, Minerals and Mining, in recognition of his achievements in materials science.

## Professor Robert Read

### Genomic Medicine

Elected to the Council of the European Society of Clinical Microbiology and Infectious Diseases.

## Professor Susan Read

### School of Nursing and Midwifery

Awarded an MBE in the New Year Honours List, in recognition of her contribution to nursing research and innovation in health care.

## Professor Tony Ryan

### Chemistry

Awarded the first EPSRC (Engineering and Physical Sciences Research Council) Senior Media Fellowship. He also presented the series of Royal Institution Christmas Lectures 2002, entitled 'Smart Stuff', which were broadcast on Channel 4 television.

## Professor Patrick Seyd

### Politics

Awarded an Emeritus Research Fellowship by the Leverhulme Trust.

## Professor John Sharp

### Engineering Materials

Awarded the Kroll Medal and Prize by the Institute of Materials, Minerals and Mining, in recognition of his contribution to the understanding of materials chemistry.

## Professor Sally Shuttleworth

### English Literature

Awarded a British Academy Research Readership to study the psychology of childhood in Victorian literature, science and medicine.

## Ms Lisa Smith

### Third-year Chemical and Process Engineering student

Won the BOC Award for Best Chemical Engineering Student at the 2003 National Science, Engineering and Technology Student of the Year Awards.

## Professor Jim Swithenbank

### Chemical and Process Engineering

Awarded the Walter Ahlström Prize 2002 by the Finnish Academies of Technology and the Walter Ahlström Foundation, for his distinguished contributions in the field of sustainable energy.

## Professor James Underwood

### Oncology and Pathology

Elected President of the Royal College of Pathologists.

## Emeritus Professor Alan Yates

### Hispanic Studies

Awarded the International Catalonia Prize by the Institut d'Estudis Catalans, for services to the Catalan language and culture.

Top (left to right): Professors David Howe, Derek Linkens and Hywel Davies.  
Bottom: Professor Sir David Hall (left), Mr Brian Mole.



# Honorary and Ex-Officio Degrees

## HONORARY DEGREES

### Dr Chandhu Bardhan (MD)

Consultant gastroenterologist at Rotherham General Hospital and founder of the Bardhan Research and Education Trust.

### Lord Best (LittD)

Director of the Joseph Rowntree Foundation.

### Mr David Bradshaw (LittD)

Former Principal of Doncaster College of Higher Education, a graduate of the University and until recently a member of its Council.

### The Very Reverend Dr Wesley Carr (LittD)

Dean of Westminster, a graduate of the University and a former Stephenson Fellow in Biblical Studies.

### Mr Gerald Ennis (DEng)

A prominent figure in the aerospace industry and formerly Vice-President of Prototyping and Advanced Manufacturing at The Boeing Company.

### Professor John Forester (LittD)

Professor of City and Regional Planning at Cornell University.

### Dame Julia Higgins (DSc)

Professor of Polymer Science at Imperial College and Foreign Secretary of the Royal Society.

### Professor Philip Hobsbaum (LittD)

Acclaimed poet, author, critic and teacher, and a graduate of the University.

### Dr Susan Ion (DEng)

Director of Technology and Operations at British Nuclear Fuels.

### The Honourable Mr Justice Kay (LLD)

The first Sheffield law graduate to be appointed a Justice of the High Court, where he now heads the Administrative Court.

### Sir John Lilleyman (MD)

Professor of Paediatric Oncology at St Bartholomew's and the Royal London School of Medicine and Dentistry,

past-President of the Royal College of Pathologists and formerly consultant haematologist at Sheffield Children's Hospital.

### Dame Pearllette Louisy (LLD)

Governor General of St Lucia.

### Mrs Marion Maitlis (MA)

Founder and long-term chair of the University of Sheffield International Wives' Club.

### Mr Grahame Morris (LittD)

Chief Executive of Sheffield Theatres.

### Dr Drew Nelson (DEng)

Chairman and Chief Executive of International Quantum Epitaxy, and a graduate of the University.

### Professor Jim Norton (DEng)

Formerly Executive Chairman and UK Country Manager of Deutsche Telekom, and a graduate of the University.

### Dr Hiroji Ôta (LittD)

Chairman of the Chubu Electric Power Company in Nagoya, Japan.

### Professor Graham Russell (MD)

Director of the Oxford University Institute of Musculoskeletal Sciences and formerly Head of the Department of Human Metabolism and Clinical Biochemistry at Sheffield.

### Professor Jim Swithenbank (DEng)

Long-serving member of staff in the Department of Chemical and Process Engineering, and a leading authority on sustainable energy.

### Mr Phillip Wright (DEng)

Formerly Chief Executive of Sheffield Forgemasters and a graduate of the University.

## EX-OFFICIO DEGREE

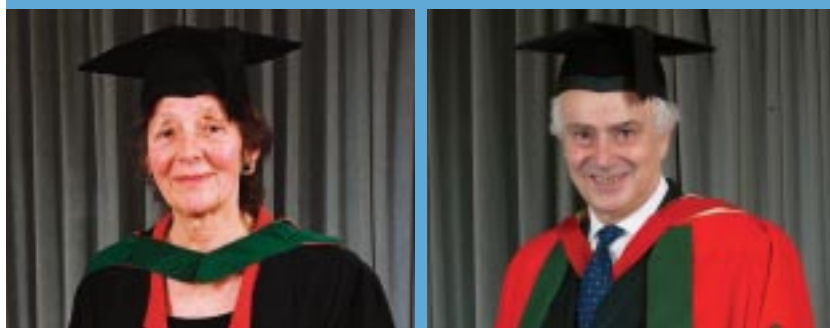
### Mr David Jarvis (MMedSci)

Chief Technician in the Department of Forensic Pathology until his recent retirement.



Michael Hannon, Director of the University's Centenary Celebrations, with the Royal Charter of Incorporation, sealed on 31 May 1905.

Clockwise from top left: The Chancellor, Sir Peter Middleton, and Sir John Lilleyman, Mr Gerald Ennis, The Honourable Mr Justice Kay, Mrs Marion Maitlis.



# Staffing Matters

## APPOINTMENTS TO

### SENIOR POSTS

#### Pro-Vice-Chancellor

**Professor P J Fleming**

#### Deans of Faculties

**Professor D H Walker**  
Arts

**Professor A H Brook**  
Medicine

**Professor W Carr**  
Social Sciences

#### Director of Finance

**Mr E T McGregor**

#### Director of Library Services and University Librarian

**Mr M J Lewis**

#### Chairs

**Professor D J Allerton**

Automatic Control and Systems Engineering

**Dr G R Bigg**

Geography

**Professor N H Bingham**

Probability and Statistics

**Dr C Boller**

Mechanical Engineering

**Dr F Ciravegna**

Computer Science

**Dr P I Croucher**

Clinical Sciences South

**Professor S Daley**

Automatic Control and Systems Engineering

**Professor D F L Dorling**

Geography

**Professor D E A Heald**

Management

**Dr J L Hockey**

Sociological Studies

**Dr A James**

Sociological Studies

**Dr C M Johnson**

Electronic and Electrical Engineering

**Professor M A Lennon**

Oral Health Development

**Professor A Matthews**

Engineering Materials

**Professor G D Parry**

School of Health and Related Research

**Professor P W Piper**

Molecular Biology and Biotechnology

**Professor N Qin**

Mechanical Engineering

**Mr T W Redman**

Management

**Dr L Roszkowski**

Physics and Astronomy

**Mr N A Simeone**

Music

**Professor C Soutis**

Mechanical Engineering

**Professor P M Speight**

Oral Pathology

**Dr M Walker**

Computer Science

**Professor M D Ward**

Chemistry

**Dr S J Whittaker**

Information Studies

**Professor C W Wilson**

Mechanical Engineering

## PROMOTIONS TO CHAIRS

**Dr D Armstrong**

Education

**Dr S Banwart**

Civil and Structural Engineering

**Dr F M Boissonade**

Oral and Maxillofacial Surgery

**Dr R G Brooks**

Education

**Dr N J Brown**

Clinical Sciences South

**Dr R von Fáy-Siebenbürgen**

Applied Mathematics

**Dr J H Grayson**

East Asian Studies

**Dr N Gregson**

Geography

**Dr J B Grugel**

Politics

**Dr G E Hardy**

Psychology

**Dr P V Hatton**

Adult Dental Care

**Dr P A Houston**

Electronic and Electrical Engineering

**Dr J Kang**

Architecture

**Dr M H Kenny**

Politics

**Dr A R Linn**

English Language and Linguistics

**Dr M R Perkins**

Human Communication Sciences

**Dr W P Quick**

Animal and Plant Sciences

**Dr S M Read**

Acute and Critical Care Nursing

**Dr J R Sayers**

Genomic Medicine

**Dr J D Scholes**

Animal and Plant Sciences

**Dr V N Sharifi**

Chemical and Process Engineering

**Dr D M Shellard**

English Literature

**Dr C P Spencer**

Psychology

**Dr N P Strickland**

Pure Mathematics

**Dr G C H Turpin**

Psychology

**Dr G Ungar**

Engineering Materials

## RETIREMENTS FROM

### SENIOR POSTS

**Professor E Bailey**

Molecular Biology and Biotechnology

**Professor G Battersby**

Law

**Mr D R Bearpark**

Director of Finance

**Dr J C Bennett**

Electronic and Electrical Engineering

**Professor C C Cordess**

Forensic Psychiatry

**Professor D E Fenton**

Chemistry

**Professor S A George**

Politics

**Mr M S-M Hannon**

University Librarian

**Dr P J Harley**

Applied Mathematics

**Dr P J Hayward**

Estates

**Professor P A Ivey**

Electronic and Electrical Engineering

**Dr E M Jacobs**

Management

**Professor A G Johnson**

Surgical and Anaesthetic Sciences

**Dr F A Johnson**

Recruitment and Admissions

**Mr C O Lago**

Counselling Service

**Ms J L Lauriston**

Registry

**Professor D A Linkens**

Automatic Control and Systems Engineering

**Dr A J E Lyon**

Animal and Plant Sciences

**Professor D E Luscombe**

History

**Professor P M Maitlis**

Chemistry

**Mr J McLeod**

Finance

**Dr I A McLure**

Chemistry

**Professor R J Moffett**

Applied Mathematics

**Ms J E Morrison**

Student Services

**Professor B S Ottoway**

Archaeology

**Professor D L Owen**

Management

**Professor J S Pym**

Pure Mathematics

**Professor N G Round**

Hispanic Studies

**Professor P Seyd**

Politics

**Professor J H Sharp**

Engineering Materials

**Professor C J Smith**

Oral Pathology

**Dr M L Snaith**

Genomic Medicine

**Professor D Williams**

French

**Professor H F Woods**

Clinical Sciences South

**Professor R M Young**

School of Health and Related Research

## OBITUARIES

**Mr C K Balmforth**

University Librarian

**Mrs M Bartlett**

Housing Services

**Miss M Blaess**

French

**Professor M C Bowerman**

Management

**Emeritus Professor P H Burke**

Child Dental Health

**Emeritus Professor M M Black**

Medical Physics and Clinical Engineering

**Emeritus Professor Sir George**

**Grenfell Baines**

Architecture

**Dr F Segrove**

Zoology

**Mr J P Short**

French

**Professor I Soutar**

Chemistry

**Mr R M Urquhart**

University Bursar

**Mr P Wilkinson**

Geology

**Professor R F M Wood**

Surgery



Brendan Neiland, Keeper of the Royal Academy of Arts, with his striking new painting of the University Library, unveiled in November 2002.

# Student Numbers (at 1 December 2002)

## FULL-TIME STUDENTS, 2002/03

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	890	1,511	1	6	891	1,517	97	124	30	34	127	158	2,693
Pure Science	1,402	1,214	29	26	1,431	1,240	262	178	99	57	361	235	3,267
Medicine & Biomedical Sciences	464	836	45	53	509	889	50	132	49	40	99	172	1,669
Clinical Dentistry	124	162	3	8	127	170	4	5	6	6	10	11	318
Nursing & Midwifery	183	1,850	-	-	183	1,850	5	38	-	1	5	39	2,077
Law	397	663	62	84	459	747	87	111	46	95	133	206	1,545
Engineering	986	152	399	116	1,385	268	150	36	332	97	482	133	2,268
Social Sciences	1,376	1,304	73	109	1,449	1,413	192	319	151	154	343	473	3,678
Architectural Studies	357	215	10	16	367	231	19	37	46	33	65	70	733
TOTALS	6,179	7,907	622	418	6,801	8,325	866	980	759	517	1,625	1,497	18,248
TOTALS (Male and Female)	14,086		1,040		15,126		1,846		1,276		3,122		

Note: In addition there were 206 Modern Language students abroad, 93 Architecture students in office practice, 13 students on optional year-outs, and 356 Erasmus and Year Abroad students.

## PART-TIME STUDENTS, 2002/03

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	4	4	-	-	4	4	111	105	6	9	117	114	239
Pure Science	17	9	-	-	17	9	110	78	7	6	117	84	227
Medicine & Biomedical Sciences	4	5	-	-	4	5	120	203	15	26	135	229	373
Clinical Dentistry	1	-	-	-	1	-	17	5	-	-	17	5	23
Nursing & Midwifery	114	1,780	-	-	114	1,780	16	44	6	26	22	70	1,986
Law	4	3	-	-	4	3	19	9	-	-	19	9	35
Engineering	12	-	-	8	12	8	131	15	16	6	147	21	188
Social Sciences	437	547	7	10	444	557	241	448	78	155	319	603	1,923
Architectural Studies	7	2	1	1	8	3	12	7	1	-	13	7	31
TOTALS	600	2,350	8	19	608	2,369	777	914	129	228	906	1,142	5,025
TOTALS (Male and Female)	2,950		27		2,977		1,691		357		2,048		

## NEW FULL-TIME STUDENTS, 2002/03

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	336	542	1	-	337	542	58	88	10	21	68	109	1,056
Pure Science	462	421	15	13	477	434	131	75	57	32	188	107	1,206
Medicine & Biomedical Sciences	93	225	9	8	102	233	30	67	29	18	59	85	479
Clinical Dentistry	20	38	-	4	20	42	2	3	3	5	5	8	75
Nursing & Midwifery	49	691	-	-	49	691	5	38	-	-	5	38	783
Law	152	242	28	45	180	287	75	99	43	84	118	183	768
Engineering	302	47	164	56	466	103	63	13	176	50	239	63	871
Social Sciences	583	482	28	55	611	537	168	260	120	132	288	392	1,828
Architectural Studies	105	67	4	8	109	75	11	17	27	23	38	40	262
TOTALS	2,102	2,755	249	189	2,351	2,944	543	660	465	365	1,008	1,025	7,328
TOTALS (Male and Female)	4,857		438		5,295		1,203		830		2,033		

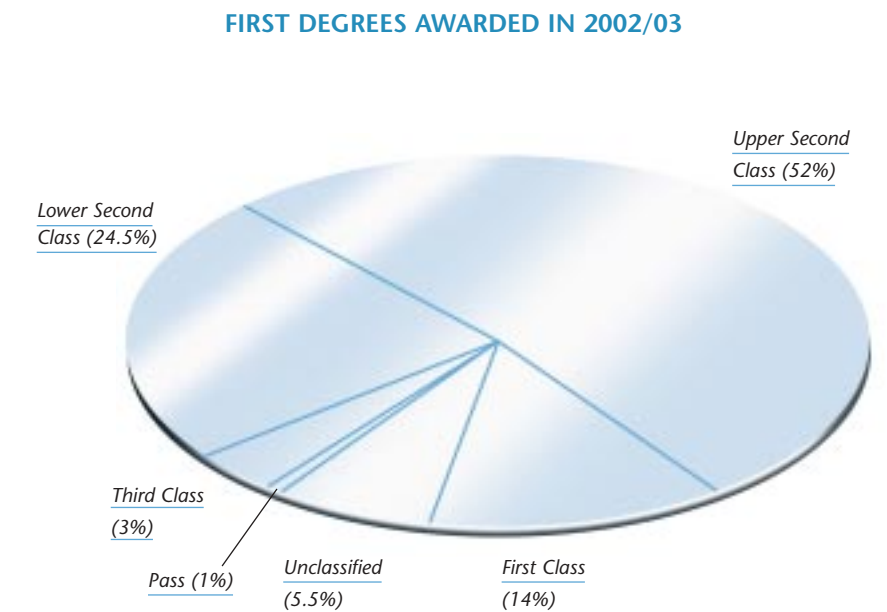
# Examination Performance

## TYPES OF DEGREES AWARDED IN 2002/03

FIRST DEGREES (4,371)			
BA	1,868	BEng	213
BA/Dip	120	BScTech	1
BMus	46	MBiolSci	10
BSc	828	MChem	34
BSc/Dip	16	MComp	9
MBChB	193	MMath	31
BMedSci	358	MPhys	24
BDS	47	MEng	210
LLB	266	MArch	3
BA(Law)	94		

HIGHER DEGREES (2,094)			
PhD	469	MSc	354
MD	11	MMedSci	130
DSc	1	LLM	53
DClinPsy	14	MSc(Eng)	122
EdD	5	MMet	3
DMinTheol	3	MBA	141
MPhil	41	MEd	139
MA	573	MArch	22
MMus	2	MArchStuds	10
MMinTheol	1		



## EXAMINATION RESULTS 2002/03

Faculty/School/Board	First Degrees								Higher Degrees			Diplomas	Certificates
	I	II.1	II.2	III	Pass	Aegrotat	Unclassified	PhD	Masters	Other Doctorates			
Arts	122	529	115	7	-	-	-	60	144	-	5	1	
Pure Science	153	430	208	29	15	-	-	142	197	14	8	-	
Medicine & Biomedical Sciences	19	47	16	1	1	-	193*	56	190	12	50	-	
Clinical Dentistry	-	1	-	-	-	-	47*	2	11	-	-	-	
Nursing & Midwifery	68	129	86	11	3	-	-	-	25	-	979	41	
Law	17	231	105	9	3	-	-	12	91	-	192	-	
Engineering	114	167	108	14	21	-	-	115	138	-	6	-	
Social Sciences	52	514	238	16	2	-	-	68	547	5	135	179†	
Architectural Studies	13	96	41	2	3	-	-	14	65	-	16	-	
Collegiate Studies	49	127	162	37	-	-	-	-	183	3	92	17	
TOTAL	607	2,271	1,079	126	48	-	240	469	1,591	34	1,483	238	

\*MBChB and BDS degrees are unclassified †Includes 149 PGCE

# Officers and The Council

## OFFICERS OF THE UNIVERSITY

(Session 2002/03)

### 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 A Jones

Professor G R Tomlinson

Professor C R Whitehouse

### The Deans of the Faculties

Arts: Professor S A Shuttleworth

Pure Science: Professor J A Lee

Medicine: Professor P M Enderby

Law: Professor J G Merrills

Engineering: Professor D H Owens

Social Sciences: Dr J H Grayson

Architectural Studies: Professor B R Lawson

### The Registrar and Secretary

Dr D E Fletcher

## THE COUNCIL OF THE UNIVERSITY

(Session 2002/03)

### 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 E J Boot

Mr P Firth

Mr C J Jewitt

Dr H S Johnson

Dr J McQuaid

Rt Rev J Nicholls

Sir Michael Partridge

Mr V J Smith

Dr E Walmsley

Two vacancies

### Two Deans of the Faculties elected annually by the Deans of Faculties

Professor S A Shuttleworth

Professor B R Lawson

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

Dr S B M Beck

Mrs J Dagg

Professor G W Duff

Dr T M Searle

Professor Y Wilks

### Two Officers of the Union of Students

President: Ms K Buckle

Welfare Officer: Ms K Willingham

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

Mr T Robinson

### Secretary to the Council

The Registrar and Secretary



**DAINTON PAPERS.** The personal and working papers of Lord Dainton, Chancellor of the University from 1978 to 1997, were handed over to the University at a ceremony held in the presence of Lady Dainton and her family in December 2002. The collection, which extends from Lord Dainton's early life in Sheffield right up to the year of his death in 1997, has been collated by the National Cataloguing Unit for the Archives of Contemporary Scientists, based in the University of Bath.

Lady Dainton, and her son John and daughters Rosalind (centre) and Mary, recall Lord Dainton's time as Vice-Chancellor of the University of Nottingham.

*Opposite:* Union of Students building.



# 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).

■ 18,248 full-time students were registered for degree and diploma courses in the session 2002/03. Of these, 15,126 were undergraduates (6,801 men, 8,325 women) and 3,122 were postgraduates (1,625 men, 1,497 women).

■ 5,025 part-time students were registered for degree and diploma courses in the session 2002/03.

■ 5,295 undergraduate and 2,033 postgraduate students were admitted to full-time degree and diploma courses in the session 2002/03.

■ 4,371 First degrees, 1,591 Masters degrees, 469 Doctor of Philosophy degrees, 34 other Doctors degrees, 1,483 Diplomas and 238 Certificates were awarded by the University in the session 2002/03.

■ 32,977 applications were received through UCAS for undergraduate entry in 2003.



Dr John Taylor, Director General of the Research Councils, in conversation with Professor Richard Jones (right) and the Vice-Chancellor during a visit to the University in October 2003.

■ The average A level entry score for September 2003 was 25.3.

■ 5,569 people were employed at the University on 31 July 2003. This figure comprised the following categories of staff: Academic (1,228 – of which 303 were Professors, 376 Readers and Senior Lecturers, and 549 Lecturers); Academic-Related (822); Research (884); Technical (621); Clerical and Secretarial (1,114); Manual and Ancillary (802); Other Staff (98).

■ 270 First degree courses and 184 Masters degree courses were available to students entering the University in September 2003.

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

■ 2,436 international students from 111 countries were registered on full-time courses in 2002/03. In addition, there were 415 part-time and 253 distance learning international students taking University of Sheffield courses.

■ 5,074 student places were available in University halls (2,869) and flats (2,205) in 2002/03.

■ 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 2003 was £261m.

## 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 2002/03 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  
Medicine and Pharmacology  
Surgical and Anaesthetic Sciences  
Genomic Medicine  
Academic Clinical Psychiatry  
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 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 Economics  
Health Policy and Management  
Information Resources  
Medical Care Research  
Mental Health  
Operational Research  
Public Health

## 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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<http://www.shef.ac.uk/>