Principal’s welcome
Welcome to the University of Glasgow’s Annual Review, which is a brief guide to what has been a very successful year, covering the period August 2011 to July 2012.

I am pleased to report on the continuing financial stability of the University, and the operating surpluses we have secured to invest in our teaching, infrastructure and research. The breadth of our expertise is a key strength and one you’ll see reflected in the diverse range of stories we have to tell.

In much of our work we make progress through collaboration, both within and beyond our community. This year, Glasgow has become more connected to the world than ever before. We are proud to have signed partnership agreements with, among others, University of Calcutta, Singapore Institute of Technology, the Smithsonian Institution and George Mason University in order to enable the exchange of staff, students and ideas.

Research at Glasgow brings fresh ideas and cultural enrichment to the world. Our experts are working with European and Brazilian partners to fight inflammatory disorders; they are exploring ways to prevent the transmission of disease between livestock and people in Northern Tanzania; they are investigating the worldwide illegal antiquities trade. Meanwhile, the unveiling of an ambitious space technology research programme has proved that the expertise to be found at Glasgow can be useful even beyond global boundaries.

In all of this, we are generating beneficial opportunities for the next generation of learners and the leaders of the future. We’re committed to providing a fantastic experience for our students, wherever they’re from and whatever their hopes for the future. The positivity they feel for the time they spend at Glasgow was signposted once again with a glowing satisfaction rating of 90 per cent in the National Student Survey 2011, and with a top UK ranking in the International Student Barometer summer wave 2011.

At a time when all universities are facing new challenges and rapid change, some constants remain. Glasgow is built on the enthusiasm, expertise and energy of our people. Research that changes the world, learning experiences that transform lives, and the creation of communities both locally and across the globe – these are the goals that drive us, and these are the achievements you will find detailed in the following pages.

Professor Anton Muscatelli
Principal and Vice-Chancellor

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April

Glasgow’s Young Alumnus of the Year Emeli Sandé won the Critics’ Choice Award at the Brits 2011.

The 24-year-old singer/songwriter graduated with a BSc in Neuroscience in 2009 and has since had major success with her debut album *Our Version of Events*.

Parkinson’s UK announced investment of more than £1.6m into research led by the University that aims to identify elusive biomarkers for the disease.

The project, led by Professor Donald Grosset, will be the biggest ever in-depth research study to track people with the neurological condition: a world first in the charity’s bid to find a cure.

January

Scientists at the Cancer Research UK Beatson Institute in Glasgow reported having created the first 3D structure of a key protein that protects against the development of cancer.

In real life, the c-Cbl protein mapped out by the team is about the size of a millionth of a hair’s width.

May

An intelligent, interactive comic book designed by Glasgow experts as an educational tool in the fight against malaria was launched online in May.

The resource, which teaches school and college pupils about the disease and the scientific community’s fight against it, has been translated into German, French and Portuguese, with Hindi, Swahili and more languages planned.

February

Experts at Glasgow revealed how plants can survive the harmful rays of the sun without getting sunburn, in a paper published by Science in February 2012.

The paper revealed details of the molecular structure of the protein UVR8, which the scientists discovered was responsible for detecting the presence of UV-B and initiating the process of protection.

June

Computer scientists announced a project to develop a new type of internet search engine in June.

With nine collaborating partners across Europe, the team are hoping that the search engine will be able to draw its results from sensors that are located in the physical world, such as cameras and microphone arrays.

March

Science and engineering students developed an innovative ‘space web’ experiment that was launched from the Arctic Circle to the edge of space.

The experiment was called Suaineadh, which means ‘twisting’ in Scots Gaelic. It could pave the way for the development of a range of space construction projects in the future.

July

The Centre for Robert Burns Studies launched a new website designed to connect thousands of Burns enthusiasts around the world.

The website is one of the first developments from the *Editing Burns for the 21st Century* project, which has been awarded £1.1m in funding from the Arts & Humanities Research Council.
Glasgow scientists reported taking the first tentative steps towards creating life from inorganic chemicals in September 2011, potentially defining the new area of inorganic biology. The team demonstrated a new way of making inorganic chemical cells or iCHELLS. According to the researchers, the cells could have potential applications in medicine, as sensors or to control chemical reactions.

The world’s first fully regulated clinical trial of a neural stem cell therapy for disabled stroke patients received approval to progress to its next stage of development. Conducted under the supervision of University experts, the PISCES (Pilot Investigation of Stem Cells in Stroke) study of ReNeuron Group plc’s ReN001 therapy involves the introduction of neural stem cells into the brains of stroke patients. Following the success of safety assessments conducted with the first three patients to receive the treatment, the trial of a higher dose of ReN001 has been approved.

A pioneering study into the long-term effects of weight loss surgery on health was awarded £2.1m in funding from the National Institute of Health Research. Experts from the University’s British Heart Foundation Glasgow Cardiovascular Research Centre are studying the clinical outcomes of bariatric surgery conducted in Scotland over more than a decade in order to address a lack of up-to-date research on the long-term outcomes for patients who undergo procedures such as gastric banding, gastric bypass surgery or sleeve gastrectomy.

Research into the illegal antiquities trade was awarded €1m from the European Research Council. With the aim of finding new approaches to regulate the international trade in cultural goods, the project involves gathering and analysing data on the motives of traffickers as well as their methods in transit and purchase. Each year, culturally important and valuable objects are looted and smuggled around the world.

In February, the University unveiled an ambitious space technology research programme. The Space Glasgow Research Cluster brings together some of the University’s leading researchers already working on a range of projects, from developing solar-power-generating satellites and asteroid early warning systems, to forecasting solar flares and exploring the presence of water and the evolution of microbial life in our solar system. The goal is to use the £14m in annual funding to support space-related research that the University currently receives, as well as the links it has with organisations such as NASA and the European Space Agency.

As part of a continuing programme of investment into high-quality facilities and equipment, the University acquired a unique, world-leading electron microscope that allows experts to scrutinise individual atoms and probe their chemical, magnetic and electronic properties with unprecedented detail. The £2.65m MagTEM microscope is the latest addition to the University’s Kelvin Nanocharacterisation Centre, where researchers create and examine materials on the atomic scale. Research from the Centre has already contributed to the development of a wide range of products, particularly in microelectronic and data-storage applications.

Cancer Research UK awarded more than £1.6m to support and expand research at Glasgow that investigates why leukaemias return after treatment – a devastating problem for doctors, patients and their families. Having already identified molecules that are crucial for the development of the disease, the team wants to uncover how these molecules misbehave in leukaemia stem cells – research that will lead the way to more effective treatments for patients in the future.

www.glasgow.ac.uk/research
Glasgow’s students reported high satisfaction with the University’s combination of excellent teaching, research and support services this year.

Memorable student life

Glasgow’s reputation for delivering a high-quality experience was once again reflected in the findings of the National Student Survey. The overall aggregated results from the 2011 poll placed Glasgow as the joint-top rated university in Scotland and joint-seventh in the UK. Eight subjects were ranked first in the UK – accounting, dentistry, finance, sports science, computer science, geology/earth sciences, nursing and microbiology – while the University as a whole received a satisfaction rating of 96 per cent.

The ratings stand alongside similarly impressive results from the International Student Barometer summer wave 2011. Taking all the ratings for learning, living and support experience together, the University was first in the UK and third in the survey overall.

Glasgow students showed the pride they take in being part of a diverse community, when a film they created that highlights the issues faced by Lesbian, Gay, Bisexual and Transgender students became an internet hit. It Gets Better Glasgow was made by the Students’ Representative Council in response to the worldwide It Gets Better campaign. Within three hours of its upload, the film notched up an impressive 3,000 views worldwide.

Meanwhile, in November, the University’s first ever programme to be supported by the European Commission’s prestigious Erasmus Mundus programme put out an initial call for postgraduate student applicants. The two-year International Masters in Russian, Central & Eastern European Studies, which is the only one of its kind available at a UK university, is due to receive funding to support up to 17 student scholarships and 35 academic exchange visits.

Student debaters from Glasgow University Union travelled to Beijing to pit their skills against China’s best after qualifying as one of the top 15 teams out of 350 competing societies in the European Universities Debating Championship. The University of Glasgow has a long record in international debating championships, having won the World Championship five times since 1981.

Plans to invest £300,000 in fee waivers and support for Brazilian students coming to Scotland provided another boost to the University’s growing international student population. Glasgow will offer supplementary funding to students who travel to the UK as part of the Brazilian government’s Science without Borders initiative. Each year, awards of £5,000 will be offered to 16 undergraduate and 16 postgraduate study abroad students.

In addition, eight scholarships of £5,000 per annum for three years are being offered to full PhD students. The University already welcomes students from 120 countries around the world.

In December 2011, Glasgow launched a policy for student carers – the first of its kind in the UK. The policy was instigated and developed by the Students’ Representative Council and has been designed to support those who, alongside their studies, provide emotional or practical support to a relative, close friend or neighbour who is unable to manage alone. By introducing a consistent degree of flexibility and support to student carers, the policy creators are hopeful that the new development will have a significant positive impact on what can be an overlooked group.

A special recruitment fair offered students from Glasgow and beyond the chance to meet with a range of employers from Pakistan. In February 2012, the students were able to make connections with a delegation of 16 employers from a range of sectors including energy, car manufacturing, management, HR, engineering, law, retail and food. Offering opportunities to forge helpful connections for the future is just one of the ways the University supports students at all stages to build their employability while they study.
Forging partnerships across the globe

The University extended its ever-growing network of global connections with the announcement of a number of partnership agreements in 2011-12, including:

• a Memorandum of Understanding signed with the University of Calcutta, focusing on collaboration in arts, research and commerce
• the launch of two new aerospace programmes taught in partnership with the Singapore Institute of Technology
• an agreement with the Smithsonian Institution and George Mason University to promote staff and student exchanges, museum placement opportunities and research collaboration.

The University advanced 18 places to reach 59th position in the QS World University Rankings in September 2011. It was the largest rise in rankings that Glasgow has seen, and confirms the University’s position as one of the world’s leading research-intensive institutions.

In October, scientists announced a major step towards understanding the genetic make-up of a parasite that causes leishmaniasis, a flesh-eating disease that threatens around 350 million people in 88 countries, including Brazil, Iran, Peru, Saudi Arabia, Syria, Afghanistan and parts of China. With funding of £1m from the Wellcome Trust, researchers were able to analyse the genome of different species of sand fly that spread the disease. They hope to understand how different forms of leishmaniasis develop and how they can be treated.

In Pakistan, a Glasgow-led project delivered 266 new homes for the flood-hit Swat Valley. The emergency homes were specially designed low-cost units, built with sustainable, local materials such as bamboo, stone and lime mud, on a guided self-help basis. Equipped with a large room, veranda, kitchenette, WC and washroom, they will last until permanent homes are built.

Researchers joined European and Brazilian partners in a €3m project to fight inflammatory disorders. Including a group led from Glasgow that will study the roles of key molecules with a view to developing them for therapeutic use, the project will lead to improved collaboration with Brazilian scientists who have unique access to natural compounds known to modulate inflammation.

A groundbreaking study that will help to prevent the transmission of fever-causing illnesses between livestock and people in Northern Tanzania was one of three selected to receive a share of £3.5m from research councils in the UK and US. For their part in the project, Glasgow researchers are investigating the transmission of three fever-causing bacteria, which together account for 11 times more admission to hospitals in that area than malaria.

In India, University experts investigated ways to turn a toxic industrial waste product into a material that can be used to treat contaminated water. Around 130 million tonnes of a toxic substance called red mud are created every year, often as a by-product in the production of aluminium. Working with the Energy and Resources Institute in New Delhi, chemists from Glasgow found signs that red mud can be carbonised to make it safer, and that carbonised red mud could be used to remove heavy metals from water.

And, with the forthcoming Commonwealth Games due to put Glasgow on the world stage in 2014, a team from the University’s Centre for Population Health and the Medical Research Council embarked on a five-year research project to examine the impact any associated regeneration will have on the east end of the city. By means of three large-scale surveys, feedback is being gathered from local residents on the ways the Games change their physical, economic and social environments.

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Honorary degrees

The University conferred 25 honorary degrees during 2011-12.

Doctor of Divinity
Reverend William John Harvey
Former Leader of the Iona Community

Doctor of Engineering
Sir Iain Anderson
Former Chairman of Review of Government’s handling of 2008 foot and mouth outbreak

Doctor of Laws
Judge Bruno Simma
Former Judge on the International Court of Justice

Baroness Vivien Stern
Senior Research Fellow, International Centre for Prison Studies

Doctor of Letters
Jackie Bird
Journalist and Broadcaster

Her Excellency Katalin Bogyay, FRSA
Ambassador and Permanent Delegate of Hungary to UNESCO, President of the General Conference of UNESCO

Julia Donaldson
Author

Dr Brian Friel
Playwright

Professor Fernando Galván
President of the Universidad de Alcalá, Madrid, Spain

Professor Dame Janet L. Nelson
Emeritus Professor of Medieval History, King’s College London

Doctor of Science
Ian Anderson
President, Royal College of Physicians and Surgeons of Glasgow

Professor Dame Valerie Beral
Professor of Epidemiology, Cancer Epidemiology Unit, University of Oxford

Dr David Grant
Scientific Director, Leukaemia Lymphoma Research

Professor Rolf-Dieter Heuer
Director General of CERN

Professor Dame Janet L. Nelson
Emeritus Professor of Medieval History, King’s College London

Dr Lee Goldman
Executive Vice President for Health and Biomedical Sciences, Columbia University, USA

Professor Wilson Sibbett
Warlday Professor of Physics, St Andrews University

Professor Ronald Thandabantu Nitapo
Deputy Vice-Chancellor, University of Cape Town

Julia Donaldson
Author

Ahmed Hassan Zewail
Linus Pauling Chair Professor of Chemistry, California Institute of Technology

Doctor of Music
Stéphane Denève
Music Director of the Royal Scottish National Orchestra

Doctor of the University
Alison Bruce
University of Glasgow’s Lay Representative, Royal College of Veterinary Surgeons

Ian Callum
Design Director, Jaguar Cars Ltd

Steve Inch
Former Executive Director for Development & Regeneration Services, Glasgow City Council

Tony Jakimow
Principal of Dumfries & Galloway College

Lord Jamie Lindsay
Chairman of Scottish Agricultural College

Viviane Reding
Vice President of the European Commission

Professor Wilson Sibbett
Warlday Professor of Physics, St Andrews University

Professor Ronald Thandabantu Nitapo
Deputy Vice-Chancellor, University of Cape Town

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Key facts and figures

2011-12  2010-11

**Income**
- Funding body grants: £143,891, £154,197
- Tuition fees and education contracts: £99,634, £94,088
- Research grants and contracts: £124,325, £128,047
- Other income: £60,041, £67,149
- Endowment and investment income: £6,502, £6,724
- Total income: £438,859, £450,185

**Expenditure**
- Staff costs: £233,221, £252,987
- Other operating expenses: £177,321, £166,546
- Depreciation: £18,336, £19,172
- Interest and other finance costs: £616, £1,054
- Total expenditure: £429,514, £439,759

**Surplus after depreciation of tangible fixed assets at valuation and before exceptional items**
- £10,325, £10,436

**Exceptional items**
- (£480), £800

**Surplus on continuing operations after depreciation of assets at valuation and disposal of fixed assets**
- £9,945, £11,236

**Surplus for the year transferred to accumulated income in endowment funds**
- (£1,362), (£1,429)

**Surplus for the year retained within general reserves**
- £8,482, £9,811

All items of income and expenditure arise from continuing operations.

**Consolidated statement of historical cost surpluses**
- Surplus for the year retained within general reserves: £8,482, £9,811
- Difference between historical cost depreciation and the actual charge for the period calculated on the revalued amount: £3,396, £3,909
- Realisation of property revaluation gains of previous years: £408, -
- Historical cost surplus for the year: £12,286, £13,720

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**2011-12 Student numbers**
- Undergraduates: 16,620 (73.6%)
- Postgraduates: 5,962 (26.4%)
- Total: 22,582

**Student numbers by college 2011-12**
- Arts: 18.1%
- Medical, Veterinary & Life Sciences: 24.4%
- Science & Engineering: 23.7%
- Social Sciences: 33.8%

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**Number of staff 2011-12**
- Research & Teaching staff: 2,477 (41.0%)
- Management, Professional & Administrative staff: 1,814 (30.0%)
- Operational staff: 944 (15.6%)
- Technical & Related staff: 531 (8.8%)
- Clinical staff: 275 (4.6%)
- Total: 6,041

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**Home residence of full-time students 2011-12**
- UK: 74.0%
- EU: 10.3%
- Outwith EU: 15.5%

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**Senior Officers 2011-12**
- Chancellor: Professor Sir Kenneth Calman, KCB, MD, PhD, FRCS, DL, FRSE
- Principal and Vice-Chancellor: Professor Anton Muscatelli, MA, PhD, FRSE, AcSS
- Convener of Court: Mr David CH Ross, LLB (Hons)
- Secretary of Court: Mr David Newall BA, CPFA
- Clerk of Senate: Professor Graham Catto, MA, PhD, FRSE
- Director of Finance: Mr Robert Fraser, BSc, MBA, CA
- Rector: The Rt Hon Charles Kennedy MP, MA

A Register of Interests of Members of the University Court and Senior Management is maintained by the University. Application for copies may be made in writing to the Secretary of Court or the Register may be inspected on personal application to the Court Office.