Welcome to the University of Glasgow’s Annual Review. This brief guide will update you on some of the progress we have made towards our strategic goals between August 2012 and July 2013.

Thanks to the hard work and dedication of colleagues across our organisation, we have maintained financial stability and continued to invest in excellent teaching, research and infrastructure. This is vital for our future success and enables us to offer an inspiring environment for our students, researchers and support staff.

Our international reputation continues to grow, with Glasgow climbing the QS World Rankings by another five places after last year’s impressive rise from 77th to 59th. And satisfaction among our international students is exceptionally high, as demonstrated by another terrific showing in the International Student Barometer. Our students will benefit further from a range of exciting new developments we are planning, which will give us more teaching space as well as improving leisure facilities.

Our researchers hold a global reputation for their ambition to make discoveries that can improve lives. This year, we have grasped opportunities to launch new centres and formed relationships with leading institutions around the world. We fully expect new research developments such as the Stratified Medicine Scotland Innovation Centre, the Centre for Copyright & New Business Models in the Creative Economy and the Innovation Centre for Sensor & Imaging Systems to deliver benefits to many people over the coming years.

We have built new partnerships with universities in China that will enable students across a number of disciplines to visit and study in the country—an opportunity we are delighted to offer. We were also pleased this year to welcome visitors from the NATO Parliamentary Assembly, to discuss the research of the Glasgow Global Security Network.

The University takes great pride in being a world leader in research and teaching, an enjoyable and enriching place to study, and an institution well-connected with the wider world. We will continue to strive towards greater excellence in the coming year.

Professor Anton Muscatelli,
Principal and Vice-Chancellor

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In August 2012, the creation of the Centre for Copyright & New Business Models in the Creative Economy was announced.

Run by a consortium of UK universities led by the University of Glasgow, the centre examines a range of issues relating to new digital technologies and the challenges facing the UK’s creative economy.

The University climbed five places in the QS World Rankings published this month, from 59th to 54th.

It was the second rise in two years for Glasgow, which soared from 77th in the table to 59th in 2011. QS World Rankings assess criteria including research, teaching and graduate employability.

James Morton, from the School of Medicine, reached the final of the BBC’s Great British Bakeoff.

The undergraduate student originally from Shetland came runner-up in the popular baking contest, and has since published a book of bread recipes while continuing to study for his medical degree.

A scientist from the University’s Wellcome Trust Centre for Molecular Parasitology secured a £2.7m award to help advance the fight against sleeping sickness.

Dr Arnette MacLeod is leading the research into the fatal parasitic disease, which is endemic in 36 sub-Saharan countries, exposing 60 million people to the risk of infection.
Additional places for up to 800 students from low-income backgrounds over the next four years were announced. With the financial backing of the Scottish Funding Council (SFC), the University strengthened its existing commitment to assisting students who might otherwise miss out on access to higher education.

A £4m study of key social issues to help build better public services was announced. Researchers from the College of Social Sciences will address issues including crime rates, racial segregation and social inequality, to help policy makers develop more effective policy, improve public services and build a better future for Scotland.

Plans for a major expansion and development of the University’s main Gilmorehill campus were unveiled. Over five years, £80m will be invested in new buildings and equipment, with an additional £55m on refurbishing facilities. Expansion will be focused primarily on the Western Infirmary site, following its closure in 2015.

Scientists developed a device for portable, ultra-precise clocks and quantum sensors by producing ‘ultracold’ atoms.

The results of the project, carried out by researchers from the Universities of Glasgow and Strathclyde, Imperial College London and the National Physical Laboratory were published in the journal Nature Nanotechnology.

Computer scientists at Glasgow made a working model of cloud computing technology using Lego bricks.

The project linked together 56 Raspberry Pi computer boards in racks made from Lego, mimicking the function and modular design of commercial cloud computing infrastructure and enabling further research and teaching in the field.

Glasgow scientists discovered that Emperor penguins benefit from an unusual phenomenon to keep warm.

The team from the Institute of Biodiversity, Animal Health & Comparative Medicine used thermal imaging technology to establish that penguins retain their body heat in cold climates by keeping their feathers colder than the surrounding air.

The University agreed a China–UK clinical exchange programme with Sun Yat-sen University in Guangzhou – the first of its kind.

The programme will see ten students from each University switch places for five weeks during the summer, to visit hospitals and learn about the challenges faced by healthcare professionals in their host city.
The Solway Centre for Environment & Culture – a new hub for interdisciplinary research – was launched at the Dumfries Campus. A team of academics will initially focus on three research areas: rural landscape management; sustainable rural tourism; and landscape, place and memory. A project assessing the cause and impact of wildfires, and an archaeological exploration of Dumfries & Galloway’s past are now under way.

Scientists in the Institute of Molecular, Cell & Systems Biology were awarded £4m to develop tools for the production of useful strains of micro-organisms, or ‘designer bacteria’. This research, funded by the Biology & Biological Sciences Research Council, could lead to increased efficiency in the creation of plastics, lowering their environmental impact; methods to neutralise chemical pollutants in water; and the development of new antibiotics to tackle superbugs.

The Medical Research Council announced £28m in funding over the next five years towards the construction of a new Centre for Virus Research at Garscube campus. The centre was established in 2010 and represents the UK’s largest grouping of human and veterinary virologists. Funding will provide new, state-of-the-art facilities for research into viruses and viral diseases in humans and animals.

The first evidence of water dissolving the surface of Mars was uncovered by a team led by Dr Martin Lee in Geographical & Earth Sciences. The scientists used powerful electron microscopes to scan a 1.7g fragment of a meteorite called Nakhla, which fell to earth in 1911. Their findings concluded that the piece of Mars was only affected by water for a few months, which raises interesting questions about where the water may have gone.

The Scottish Funding Council confirmed that it will fund two major new centres of research excellence at the University.

• The Stratified Medicine Scotland Innovation Centre, at the new South Glasgow Hospitals Campus, will receive £8m over five years. It will involve a consortium of universities, NHS Scotland, and industry partners. Construction work is expected to begin in November 2014, with a fully operational centre due to open in September 2015.

• The Innovation Centre for Sensor & Imaging Systems will receive £10m over five years. It is due to deliver 150 collaborative research and development projects and bring new products to market during its initial funding period. The work of the centre could add almost £600m to Scotland’s economy.

The world’s first clinical trial examining the safety of neural stem cell treatment in stroke patients produced promising results, with plans in progress for a second phase. The PISCES (Pilot Investigation of Stem Cells in Stroke) trial saw the brains of ischaemic stroke patients injected with neural stem cells to test the safety and tolerability of the treatment. A Phase II trial will examine the efficacy of the treatment in a larger cohort of patients.

Funding of £5m was awarded to a team of biologists, chemists and engineers for a major study into how cutting-edge technology could help avert a future crisis in water supply and treatment. They will work to develop innovative solutions using synthetic biology to ensure the continued sustainability of water supplies around the world.

Scientists at the University’s Institute for Gravitational Research successfully concluded extensive testing of a vital component of a future space mission. The optical bench of the LISA Pathfinder mission is the super-sensitive heart of a technology demonstrator mission that will pave the way for a future detector to measure gravitational waves – ripples in spacetime caused by massively violent astronomical events such as the collision of black holes and the explosion of dying stars.

Development of a comprehensive Scottish Gaelic dictionary was aided by a £2m award package from the Scottish Funding Council. The dictionary will fully document the Gaelic language and its history by tracing the development of each word from its earliest written form to the present day, and will help to raise the profile of the Gaelic language.

A major breakthrough in developing treatments for certain cancers was made by researchers in the University’s Baillie Laboratory. Their method, of disrupting internal cellular signals that lead to the growth of cancerous cells, could result in new treatment methods that would reduce the need for heavy doses of chemotherapy.

www.glasgow.ac.uk/research
Successful students

New funding opportunities for applicants and the announcement of major investment in student facilities will help Glasgow to continue to provide an excellent student experience.

Glasgow’s international students were revealed to be among the most satisfied in the UK, according to the International Student Barometer survey. The i-Graduate Summer 2012 Wave survey ranked international students at Glasgow the second-happiest in the UK among participating institutions, and an impressive third in the overall survey. Students were asked about their satisfaction with various aspects of their chosen university, ranging from the quality of lectures to how safe they felt in the town or city where their university is based.

After a successful planning application, work began in spring on a new £13.4m sports and social facility to be based on the main campus. The new five-storey sports and social facility will connect the existing Glasgow University Union with the Stevenson Sports Centre and expand upon the current provision of each. Plans include a new nightclub, four café/bars, a four-court multi-purpose activity hall with viewing gallery, and increased exercise studio space including a martial arts dojo studio.

Glasgow’s Top-Up programme, which sends tutors into participating schools in order to encourage applications from students from all backgrounds to the University, was widely praised in the media. Research showed that students on the scheme were performing consistently well, showing progression rates into second year comparable or in some cases even more successful than their peers.

In February, the University received funding for an additional 122 taught postgraduate places from the Scottish Funding Council – more than any other Scottish university. The places are for degree programmes that support industry by encouraging links between the University and business. They cover subjects from art history to real estate, and from animal welfare to software development.

A jointly delivered engineering programme was launched between Glasgow and the University of Electronic Science & Technology of China (UESTC). The four-year BEng (Honours) in Electronic & Electrical Engineering will be delivered at UESTC’s Qingshuihe campus in Chengdu, with around 200 students starting in September 2013. Graduates will receive degrees from both universities. Following a large earthquake in the Sichuan province in April, the universities announced up to ten scholarships for the programmes to students who had been affected.

In 2013, the University welcomed more than 17,000 undergraduates and 6,000 postgraduates from 120 countries worldwide.
In September, Glasgow launched its first-ever degree to be supported by the European Commission’s prestigious Erasmus Mundus programme. The two-year International Masters in Russian, Central & East European Studies received funding to support up to 20 student scholarships and a total of 35 academic exchange visits.

Scientists teamed up with a new Scottish charity to send used laptops to schoolchildren in Malawi. Staff from the Wellcome Trust Centre for Molecular Parasitology, along with colleagues from the Institute of Cardiovascular & Medical Sciences, all pledged their support for the ‘Malaptop’ initiative in June. The computers sent by the University were loaded with educational materials including a very successful interactive comic book about malaria developed by the Wellcome Trust Centre for Molecular Parasitology.

Representatives from the NATO Parliamentary Assembly visited the University as part of a fact-finding trip to the UK in November. Members of the Assembly’s Science & Technology Committee met with academics to discuss the world-leading research of the Glasgow Global Security Network (GGSN) on risk and resilience management, global security and climate change. The GGSN, which includes experts from across three of the University’s four colleges, hopes to work with NATO on future projects.

A team of scientists drawn from Glasgow, Amsterdam and California worked together to determine the most precise dates yet for the dinosaur extinction 66 million years ago and for the well-known impact that occurred on Earth around the same time. The new extinction date is precise to within 11,000 years. The researchers concluded that the dates of the events are so close that it is likely the impact of the comet or asteroid, if not wholly responsible for the global extinction, at least dealt the death blow to the dinosaurs.

A day of Catalan cultural events was hosted to celebrate the ties between Scotland and Catalonia. Taking place in November, on the same day as a Champions League football match between Glasgow’s Celtic and FC Barcelona, the events were part of a wider collaboration with Institut Ramon Llull (IRL), a public body which aims to promote Catalan language and culture internationally through encouraging cultural and academic exchanges, and FC Barcelona. The programme included talks from Carles Vilarrubí, Vice-President of FC Barcelona, Barcelona-based writer Matthew Yeo, and a live performance by Els Amics de les Arts.

With nearly 4,000 international students, staff from more than 90 countries and alliances with more than 300 universities across the world, Glasgow is truly an international institution.
Honorary degrees

The University conferred 22 honorary degrees during 2012-13.

**Doctor of Laws (LLD)**
- Katherine Grainger
  Sportswoman
- The Rt Hon the Lord Hope of Craighead
  Supreme Court Judge
- The Rt Hon Lady Paton
  Judge, Court of Session
- The Rt Hon the Lord Reed of Cardowan
  Supreme Court Judge
- Sheriff Principal James Taylor
  Sheriff, Glasgow Court

**Doctor of Letters (DLitt)**
- Christopher Brookmyre
  Author
- Professor Marilyn Cochran-Smith
  Cawthorne Professor, Boston College, USA
- Muriel Gray
  Broadcaster, author and businesswoman
- Terry Jones
  Writer, film director and actor
- Professor Christian Kay
  Emeritus Professor of English Language, University of Glasgow
- Aonghas Macneacail
  Gaelic poet
- Professor Jean-Luc Marion
  Professor of the Philosophy of Religions and Theology, University of Chicago
- Steven Moffat
  Award-winning dramatist
- Professor Heather Munroe-Blum
  Principal and Vice-Chancellor, McGill University
- Jonathan Saunders
  Fashion designer

**Doctor of Science (DSc)**
- Professor Barry Barish
  Linde Professor of Physics, California Institute of Technology
- Professor Roger Crofts
  Chairman, IUCN World Conservation Union UK Committee
- Professor Asma Ismail

**Doctor of the University (DUniv)**
- Adele Emeli Sandé
  Singer and musician

**Doctor of Veterinary Medicine & Surgery (DVMS)**
- John Ross
  Chairman, Moredun Foundation

Deputy Vice-Chancellor, Institute for Research in Molecular Medicine, University Sains Malaysia

Professor Srinath Reddy
President of the Public Health Foundation, India

Professor Sir Mark Walport
Chief Scientific Adviser
Key facts and figures

### Number of staff 2012-13

- **Research & Teaching staff:** 2,736 (42.0%)
- **Management, Professional & Administrative staff:** 1,974 (30.3%)
- **Operational staff:** 959 (14.7%)
- **Technical & Related staff:** 557 (8.6%)
- **Clinical staff:** 288 (4.4%)
- **Total:** 6,514

### Student numbers 2012-13

- **Undergraduates:** 17,001 (73.5%)
- **Postgraduates:** 6,122 (26.5%)
- **Total:** 23,123

### Home residence of full-time students 2012-13

- **Scotland:** 62.2%
- **RUK:** 8.5%
- **EU:** 11.9%
- **Outwith EU:** 16.5%
- **Undefined:** 1.0%

### Students by college 2012-13

- **Arts:** 19.3%
- **Medical, Veterinary & Life Sciences:** 23.4%
- **Science & Engineering:** 23.0%
- **Social Sciences:** 34.1%
- **External:** 0.2%

### Consolidated statement of historical cost surpluses

- **Surplus for the year retained within general reserves:** 10,030
- ** Redistributions:**
  - Corporate taxation:
  - Surplus for the year transferred to accumulated income in endowment funds:
  - Surplus for the year retained within general reserves:

- **Surplus for the year transferred to accumulated income in endowment funds:** 10,030
- **Surplus for the year retained within general reserves:** 8,482
- **All items of income and expenditure arise from continuing operations.

### Income

<table>
<thead>
<tr>
<th></th>
<th>2012-13</th>
<th>2011-12</th>
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</thead>
<tbody>
<tr>
<td>Funding body grants</td>
<td>154,892</td>
<td>143,891</td>
</tr>
<tr>
<td>Tuition fee and education contracts</td>
<td>110,936</td>
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<td>Research grants and contracts</td>
<td>128,090</td>
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<tr>
<td>Other income</td>
<td>87,496</td>
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<tr>
<td>Endowment and investment income</td>
<td>7,539</td>
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<tr>
<td><strong>Total income</strong></td>
<td>468,953</td>
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### Expenditure

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<tr>
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<tr>
<td>Staff costs</td>
<td>249,558</td>
<td>233,221</td>
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<td>Other operating expenses</td>
<td>187,630</td>
<td>177,321</td>
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<td>Depreciation</td>
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<td>18,394</td>
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<tr>
<td>Interest and other finance costs</td>
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<td>616</td>
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<tr>
<td><strong>Total expenditure</strong></td>
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### Surplus after depreciation of tangible fixed assets at valuation and before exceptional items

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### Corporate taxation

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<tbody>
<tr>
<td>Corporate taxation</td>
<td>(86)</td>
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<tr>
<td><strong>Total</strong></td>
<td>(86)</td>
<td>(0)</td>
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### Surplus for the year transferred to accumulated income in endowment funds

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<td>(1,383)</td>
</tr>
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<td><strong>Total</strong></td>
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### Surplus for the year retained within general reserves

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### Consolidated statement of historical cost surpluses

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<td>8,482</td>
</tr>
<tr>
<td>Difference between historical cost depreciation and the actual charge for the period calculated on the revalued amount</td>
<td>3,376</td>
<td>3,396</td>
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<tr>
<td>Realisation of property revaluation gains of previous years</td>
<td>-</td>
<td>436</td>
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<tr>
<td><strong>Historical cost surplus for the year</strong></td>
<td>13,406</td>
<td>12,386</td>
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