Welcome to our Annual Review, which recalls our successes for the year from August 2015 to July 2016.

Our biggest story of the year was the role played by some of our academics in the discovery of gravitational waves (see page 2). This major success did not eclipse our many other achievements, however. In the National Student Survey we were named top university in Scotland and third in the Russell Group rankings, with 15 of our subject areas placed in the UK top ten. We were also ranked ninth best university over 400 years old in the world by Times Higher Education.

We continued to change the face of the city of Glasgow with our £1bn campus redevelopment, which progressed with the official transfer of ownership of the former Western Infirmary site. Planning moved forward on our first major project, the Learning & Teaching Hub. A £10m extension to our Stevenson sports facility and Glasgow University Union was opened in October, and part of our Main Library was revamped, creating 240 new spaces for group and individual study.

Our people are the focus of our success and many made world-changing contributions this year.
• Professor Anna Dominiczak, Head of the College of Medical, Veterinary & Life Sciences, was appointed DBE in recognition of her services to cardiovascular and medical science.
• Five of our colleagues were ranked in the world’s top 1% of most highly cited researchers in their field for 2015.
• Professor of Public Law James Murdoch received a European award for excellence in teaching in social sciences and humanities.
• Professor Muffy Calder, Head of the College of Science & Engineering, was the only academic from Scotland named by the Daily Telegraph in their UK Top 50 Women in Science and Engineering list.

The impact on the University of the Brexit vote in June will take many months to clarify, and ensuring that our voice is heard on behalf of our 4,000 European Union (EU) staff and students is a top priority. I was invited to chair a group of legal, financial, business and diplomatic experts to advise the Scottish Government on securing Scotland’s relationship with the EU.

Finally, we announced in November that the University had been named an accredited Living Wage employer and we committed to the Scottish Business Pledge, which encourages employers to adopt fair business practices. In this and other ways, we continually strive to enhance our reputation as a progressive, forward-looking institution.

PROFESSOR ANTON MUSCATELLI
PRINCIPAL & VICE-CHANCELLOR
Our international social media campaign communicating the gravitational waves story caused ripples around the world and won major awards from Heist and the Chartered Institute of Public Relations.

We played a pivotal role in the historic detection of gravitational waves, a discovery which heralded a new dawn for the way our universe is observed and brought fresh potential for expanding our knowledge.

A century after Einstein’s prediction, the simultaneous worldwide announcements in February 2016 that proof of gravitational waves’ existence had been obtained validated several decades of tireless research at Glasgow.

Our physicists at the Institute for Gravitational Research led the design and supply of the sensitive mirror suspensions used in the wave detectors at LIGO, the Laser Interferometer Gravitational-Wave Observatory. These captured the signal from two black holes which collided 1.3 billion years ago.

Institute Director Professor Sheila Rowan explained: “It was a monumental leap forward for physics and astrophysics. Gravitational wave astronomy will give us the ability to make many exciting new discoveries.” For her colleague Professor James Hough, the longest-standing member of the team, the breakthrough was the culmination of 45 years of perseverance. “This is a really significant discovery,” he said. “Glasgow is one of the world’s leaders, and with the birth of gravitational wave astronomy we have a very exciting future ahead of us.”

Following on from the discovery, Professor Rowan was named as the new Chief Scientific Adviser to the Scottish Government in June.
OUR RESEARCH IS WORLD CHANGING

The quality of our research at Glasgow has far-reaching impact and makes a real difference to people’s lives.

We made a crucial breakthrough in the fight against pancreatic cancer when we reclassified the disease into four subtypes, each with its own distinct characteristics. This pivotal discovery offers hope for new personalised therapeutic treatments.

A significant advance was also made this year in chronic myeloid leukaemia research, with our discovery of an “Achilles heel” – a weakness which it may be possible to successfully target with drugs. In recognition of Glasgow’s position as a prominent global player in this field, Professor of Experimental Haematology Tess Holyoake was awarded the Scottish Cancer Foundation’s inaugural prize.

We made our mark in Africa, with the research of Professor Sarah Cleaveland underpinning international efforts to eliminate rabies worldwide. She was elected this year both as a Fellow of the Royal Society and to the National Academy of Medicine – one of the highest honours in the fields of health and medicine.

Also in Africa, five researchers from our Centre for Virus Research were awarded the Ebola medal for their work in West Africa during the recent outbreak of the lethal disease.

At home, our social scientists influenced Scottish Government policy on a range of issues. Most significantly, their new Strategic Framework for Action on Palliative Care was informed by our experts in end-of-life care. The framework outlines the actions needed to make sure everyone in Scotland receives services tailored to their individual palliative and end-of-life care needs, while driving a new culture of openness about death.

Our researchers made significant progress this year in a wide range of other areas.

• Our virologists began working with partners in Brazil to better understand the Zika virus and investigate potential treatments.
• A fresh perspective was proposed for what really happened at the last armed clash to take place on British soil – the Battle of Culloden.
• Greener transportation came a step closer with the opening of our upgraded wind tunnel facility, which will also create new technologies for renewables and infrastructure.
• Our global standing as a driving force in precision medicine was boosted by the announcement of a £4m Precision Medicine Ecosystem to improve treatments individually tailored to patients.
• A chemical search engine was created to explore many random combinations of protein building blocks – a process which could provide clues to the origins of life on Earth.
• Work began on the Science of Sensor Systems Software project, which could help determine the future success of smart cities, the internet of things, big data and self-driving vehicles.

With our researchers pushing the boundaries of knowledge and striving for a positive impact on the world, we are again confirming our status as one of the world’s leading research-intensive universities.

The Guild of European Research-Intensive Universities was launched in June 2016, with our Principal, Professor Anton Muscatelli, appointed Vice-Chair. The collaborative group of institutions of excellence, including Glasgow, aims to create innovative solutions to some of Europe’s scientific and social challenges.
Technology developed by one of our Adam Smith Business School postgraduate students, Eunice Ntobedzi, offers an innovative solution to the lack of access to electricity in her home country of Botswana. Her low-cost solar energy equipment and power, payable via mobile phone, aims to alleviate power shortages, create jobs and drive economic growth, and led to her appointment as Director of Videre Global Botswana in June 2016.

One of the biggest entrepreneurial success stories of 2015–16 involved a group of our postgraduate students who created the award-winning app MindMate to support people living with dementia, their families and carers. Their successful year included winning funding to make launching the app possible, securing their first paying customer, the National Health Service, and winning the KickStart Digital Entrepreneur of the Year 2015 award.

Other trailblazers of the year included Aurum Biosciences, who used pioneering oxygen technology originally developed in our Institute of Neuroscience & Psychology. This has the potential to mitigate the effects of stroke and save or improve the lives of sufferers.

Our scientists at the James Watt Nanofabrication Centre adapted widely available smartphone technology, allowing them to create a super-sensitive gravity detector, the “Wee-g”, which has wide potential in many industries.

In May 2016, Glasgow spin-out company Gold Standard Simulations (GSS) was bought by one of the world’s largest software companies, California-based Synopsys Inc. The semiconductor industry is under pressure to reduce time and costs when producing the integral microchips that appear inside every computerised device. GSS’s innovative tools help the industry predict how performance will be affected in future generations of miniature transistors.

By making our technologies and research accessible to industry we are preparing our ambitious students to become entrepreneurs of today and leaders of tomorrow.
The Hunterian, our museum and art gallery, is recognised as one of the world’s leading university museums.

This year we began transferring our world-class collections to their new home in Glasgow’s iconic building – Kelvin Hall. For many years we have been working in partnership with Glasgow Life and the National Library of Scotland to transform Kelvin Hall into a new academic and cultural destination for Scotland, the UK, and the world.

The reopening in 2016 marked the first phase in the redevelopment, turning the landmark building into a centre of excellence for research, teaching, public engagement, and health and wellbeing. One of the major benefits of Kelvin Hall has been the unification and co-location of our collections. Previously, around 1.5 million objects were housed in nine stores across the city. Bringing them together under one roof greatly improves access for research, teaching and learning.

The zoology and entomology collections were the first to be transferred to their new home, with the rest following in stages and Hunterian staff moving to inspiring and colourful new office accommodation.

One significant collection also brought home to the University this year was that of John Logie Baird, alumnus and television pioneer. Generous anonymous financial assistance made it possible for us to save one of his transmission recordings from 1927 – the oldest surviving in the world – and add to our existing Baird archives.

In April 2016, we signed a Memorandum of Understanding with the Smithsonian Institution in Washington DC, one of the largest groupings of museums and research centres in the world. This cemented a productive and fruitful relationship which stretches back over 20 years.
OUR HONORARY GRADUATES

We recognised outstanding achievement by conferring 25 honorary degrees in 2015–16.

DOCTOR OF LAWS (LLD)
David Sellar
Leading legal historian of Scotland
Lesley Thomson
Former Solicitor General for Scotland

DOCTOR OF LETTERS (DLitt)
Graham Berry
Former Director, Scottish Arts Council
Professor Christina Borland
Baltic Professor of Fine Art, BALTIC & Northumbria University, Newcastle
Pam Hogg
Fashion designer
Janet McFadzean
Former archivist to the Scottish Screen Archive
William McIlvanney
Writer
Awarded posthumously and collected by his daughter Dr Siobhán McIlvanney
Professor Sir James Mirrlees
Master of Morningside College, Hong Kong
Professor Máirtín Ó Murchú
Emeritus Professor, Dublin Institute for Advanced Studies

DOCTOR OF SCIENCE (DSc)
Professor Shankar Balasubramanian
Professor of Medicinal Chemistry, University of Cambridge
Professor George Davey Smith
Epidemiologist, University of Bristol
Professor Francis G. Dunn
Professor of Natural Philosophy, University of Glasgow
Professor James Hough
Research Professor of Natural Philosophy, University of Glasgow
Philip Smith
Chief Executive, UK & Ireland, Cisco International Ltd

DOCTOR OF VETERINARY MEDICINE & SURGERY (DVMS)
Professor Alexander Trees, Lord Trees
Emeritus Professor of Veterinary Parasitology, University of Liverpool

DOCTOR OF THE UNIVERSITY (DUniv)
John Beattie
Former Scotland rugby player and broadcaster
Stephen Conway
On behalf of the Erskine charity
Professor Ke Gong
President, Nankai University
Lily Greenan
Former Chief Executive of Scottish Women’s Aid
Malcolm Howat
Founder, Howco Group plc
Co-founder of the Howat Foundation
Margaret Howat
Co-founder of the Howat Foundation
Alastair Kellock
Former Club Captain, Glasgow Warriors
Dr Judith Murray
Tennis coach
David Ross
Convenor, University of Glasgow Court
Gregor Townsend
Head Coach, Glasgow Warriors

The University was founded in 1451 by Papal Bull. Modelled on the University of Bologna, Glasgow was, and has remained, a university in the great European tradition. Our mace was crafted in the 1460s and is a symbol of academic authority.
OUR YEAR IN NUMBERS

We continued to build on our strong financial foundation. Our total income was £580m, an increase of £34.6m over 2014–15. Our reputation as one of the UK’s leading research universities was reflected in our income of £175m from research grants and contracts, an increase of 7.3% over 2014–15.

<table>
<thead>
<tr>
<th>Income Source</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>Research grants &amp; contracts</td>
<td>£175m</td>
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<tr>
<td>Tuition fees &amp; education contracts</td>
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<td>Funding body grants</td>
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<td>Other income</td>
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<td>Investment income</td>
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<tr>
<td>Donations &amp; endowments</td>
<td>£1.5m</td>
</tr>
<tr>
<td><strong>Total income</strong></td>
<td><strong>£580m</strong></td>
</tr>
</tbody>
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In addition to our core student numbers (see left), 650 students worked towards a Glasgow degree at Singapore Institute of Technology this year, and 618 at our two partner institutions in China.

**OUR STUDENT NUMBERS**

- Undergraduates: 18,199
- Postgraduates: 7,505
- Total students: 25,704

**OUR STUDENTS BY COLLEGE**

- Arts: 17%
- Medical, Veterinary & Life Sciences: 24%
- Science & Engineering: 24%
- Social Sciences: 35%

**OUR STAFF**

- Research & teaching staff: 3,060
- Management, professional & administrative staff: 2,347
- Operational staff: 904
- Technical & related staff: 636
- Clinical staff: 272
- Total staff: 7,219

A Register of Interests of Members of the University Court and Senior Management in accordance with the Higher Education Funding Council for England (HEFCE) regulations is maintained by the University. Application for copies may be made in writing to the Secretary of Court or the Register may be inspected at the discretion of the Court Office.
IN 2015–16, WE WERE THE FIRST UK UNIVERSITY TO BE GIVEN A FIVE STARS+ RATING BY THE QS STARS UNIVERSITY RATINGS.