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Council members

Lay members (19)
- Mr James Radcliffe – Treasurer
- Cllr Simon Cook – Bristol City Council
- Mr Andrew Garland – Society of Merchant Venturers
- Prof Bill Ray – Convocation

Elected by Court
- Prof Sara Bick (Chair)
- Dr Roy Crisp
- Prof Colin Green
- Dr Mark Harries
- Prof Ronald Kerr
- Prof John Marley
- Prof Grain Moore
- Prof Bob Morton (Vice-Chair)
- Prof Andrew Fincham
- Prof David Mott
- Prof Miranda Pack
- Prof Mohammed Sadiq
- Mrs Alice Skaife
- Prof Ann Stephenson
- Mr James Wenz

Students (9)
- Prof Lawrence-Archer
- Prof Tony Macdonald
- Ms Paul Charlton – President of the Students’ Union
- Prof Tom Flynn – Vice-President of the Students’ Union

University members (10)
- Prof Eric Thomas – Vice-Chancellor
- Prof Nick Lieven – Pro Vice-Chancellor
- Prof Roger Middleton – Pro Vice-Chancellor
- Prof Guy Orpen – Pro Vice-Chancellor

Elected members of the academic staff
- Prof Gary Porter
- Prof Roger Middle
- Dr Esther Crawley

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- Communications Division
- Senate House

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2011/2012 The year in pictures

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- Mr James Radford – Treasurer
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- Mr Andrew Garrad – Society of Merchant Venturers
- Mr Bill Ray – Convocation

Elected by Court
- Mr Tony Flynn – President of the Students’ Union
- Mr Tom Macdonald
- Ms Pru Lawrence-Archer

Students (5)
- Mr Paul Charlie – President of the Students’ Union
- Ms Alexandra Bell – Vice-President of the Students’ Union

University members (10)
- Professor Eric Thomas – Vice-Chancellor
- Professor David Clarke – Deputy Vice-Chancellor
- Professor Nick Lewin – Pro-Vice-Chancellor
- Professor Guy Orpen – Pro-Vice-Chancellor

Elected members of the academic staff
- Professor Gary Fowler
- Professor Roger Millett
- Dr Esther Crawley
- Dr Trevor Thompson

Elected members of the non-academic staff
- Ms Ms Alessandra Berti – Vice-President of the Students’ Union

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August
60 dramatic years
The University of Bristol Theatre Collection celebrated its 60th anniversary with a festival of performances by Bristol actors. Among the highlights was an evening of plays called ‘AA’ of which the honours included a new play by BTMA member, the Rt Hon Sir Michael Parkinson. Her contribution included AA’s first performance piece.

September
Botanic Garden stands out
The University of Bristol Botanic Garden was awarded the West Country TV award for Best Visitor Attraction Regional in the 2011 RAC Traveller Awards, judged by the Royal Horticultural Society.

October
Celebrating Black History
Awareness and understanding, parity and representation, Bristol was at the cutting edge. Bristol University College of Medicine, Dentistry and Veterinary Science opened its doors in 2010.

November
Packed streets of Bristol
Georgie Twigg, a student at Bristol University, won a bronze medal in the 2012 Olympic Games. She was a Section Officer in the Women’s Rugby Union and a leader in the London 2012 Olympic flame relay. She also studied at the University of Bristol and was an ambassador for the city.

December
Campaign of discovery
An interactive advertising campaign for Bristol University College of Medical Sciences (BUCMS) has been shortlisted in the BTME Education Marketing Awards. The campaign uses a section of the University, which promotes the city of Bristol and its vicinity.

January
Year of the Dragon kicks off
Bristol students from China took part in a range of performances and events at the Bristol Museum and Art Gallery to celebrate Chinese New Year. Helping to mark the Year of the Dragon was the world-renowned artist Ai Weiwei.

February
Royal visit to Langford
Her Royal Highness The Duchess of Cornwall, on behalf of her majesty Queen Elizabeth II, officially opened two new facilities at the School for Animal Health and Welfare, officially named the Paterson-Bridgingstock Research Centre. The facilities were also dedicated to Mrs Ceeuw.

March
Alumna becomes RSC Artistic Director
Professor Dina Haddad, Director of the Bristol Academy Development Centre, became the first female director of the Royal Shakespeare Company, the premier theatre company in the world. Professor Haddad, who studied Drama and English at Bristol University, had been Chief Associate Director for Children’s Work at the RSC since 2006. He received an MBE in 2006 for services to Drama. He was also awarded an OBE in 2007.

April
Children of the 90s celebrates 21 years
A 21-year anniversary gala dinner and conference was held to discuss the remarkable scientific discoveries the children of the 90s study at the University have made since 1991. The event was attended by staff and students from the University of Bristol and other academic institutions.

May
MAY
Flaming the flare for Bristol
Three members of the University’s Choir, the Bristol Novello Choir, were featured on Tube and Radio One, coming second only to the Queen herself in a BBC poll of favourite royalty.

June
Suit gives music a hand
Bristol scientists and engineers presented an exhibition called ‘Suit’ that shows the power to re-imagine everyday objects. The exhibition, developed by the University of Bristol and the University of Manchester, was a part of the annual TEDGlobal conference in Edinburgh, which showcases cutting-edge technologies.

July
Higgs boson revealed?
British physicists working at the Large Hadron Collider at CERN in Geneva have announced a discovery that could be a key step in the search for the fundamental force of nature. Scientists studying the properties of the Higgs boson, a particle that gives mass to other particles, have found new evidence that it could be the most significant discovery in physics since the discovery of the original Higgs boson in the 1980s.
Introduction

The review of 2011/12 complements our formal Annual Report and Financial Statements and provides a brief summary of just a few of our many achievements.

We are dedicated to academic endeavour at the highest level and our students benefit from an intellectually demanding, research-informed education. We encourage independence of mind. This is underpinned by our high-quality research, which enables our students to maximise their full potential and to serve society’s needs across the globe, both during and after their time here.

Council, the governing body of the University, plays a significant role in maintaining our internationally renowned position and ensures that our research and our teaching remain at the top of their game.

The higher education sector has experienced an unprecedented rate of change in the past 12 to 18 months and there remain challenges ahead. However, as I hope you will see throughout this review, Bristol is well placed to meet these challenges as well as to maximise the opportunities ahead so that it continues to build upon its strengths as a world-leading university, known for the high quality of its research and its teaching.

Eric Thomas
Vice-Chancellor

Denis Burn
Chairman, University Council
Mission, vision and values

Through its Royal Charter granted in 1909, the University of Bristol is committed to ‘the promotion of Arts, Sciences and Learning’. In its centenary year, the University restated its mission, together with its vision and values. These are set out below. They also appear at the start of the University’s Vision and Strategy for 2009-16. This Review of the Year, together with the associated Annual Report and Financial Statements, charts progress in 2011/12 against the Vision and Strategy.

Mission

To pursue and share knowledge and understanding, both for their own sake and to help individuals and society fulfil their potential.

Vision

The University of Bristol is an international powerhouse of learning, discovery and enterprise. Its vision is of a university whose excellence is acknowledged locally, nationally and globally and that is:

• dedicated to academic achievement across a broad range of disciplines, and to continuous innovation and improvement
• research-intensive, supporting both individual scholarship and interdisciplinary or thematic research of the highest quality
• a centre for intellectually demanding, research-informed education that nurtures independence of mind and helps students achieve their personal goals and serve society’s needs, both during and after their time here
• an inclusive and collaborative community of scholarship that attracts and retains people with outstanding talent and potential from all walks of life and all parts of the world
• a stimulating and supportive environment for all students and staff, distinguished by a commitment to high standards, respect for the individual and a strong sense of collegiality
• committed to operating in a sustainable manner
• engaged with society’s interests, concerns, priorities and aspirations
• a major contributor culturally, environmentally and economically to Bristol and the South West
• well led and responsibly run, with an emphasis on consultative decision-making and open communication as well as personal responsibility and accountability.

Values

Our mission and vision are underpinned by these values:

Truth
We seek and are inspired by truth, which we pursue for its own sake

Excellence
We strive for the highest quality in all we do

Innovation
We welcome the challenge of the new and value the creative and entrepreneurial

Ambition
We have high aspirations for the University and all its staff, students and alumni

Responsibility
We aim to make a positive difference to the wider world and the future

Independence
We encourage independent thinking and cherish academic and institutional autonomy

Collaboration
We are committed to teamwork and to partnership with others

Transparency
We want to be accountable for our decisions and actions

Diversity
We view the diversity of our staff, students and alumni as a great asset

Equity
We believe in the equitable treatment of all
Education and the student experience

We aim to educate the brightest of their generation to become the leaders in their chosen career. We continue to invest comprehensively in facilities, training, technology and support services, and to seek to remove barriers to university for people from disadvantaged backgrounds via widening participation, scholarships, e-learning and other ICT initiatives, school visits, and research projects with an international reach.

The University’s priorities in this area are to:
• attract and retain academically gifted and highly motivated students from a wide range of backgrounds, creating a diverse and international University community;
• provide an education of the highest quality that is research-led and focused on the needs and expectations of our students;
• ensure students have a fulfilling, challenging and intellectually stimulating experience while at University, that prepares them for employment and worldwide opportunities when they leave;
• provide effective and enabling educational leadership and structures that support educational enhancement;
• ensure that learning takes place within a high-quality environment that enables both students and staff to achieve their full academic potential.

Employability and skills development
Against the backdrop of a continuing economic downturn and an increasingly competitive jobs market, the Careers Service is constantly developing and improving its range of services for students. Its move from Priory Road to a more prominent location on Tyndall Avenue led to a 67 per cent increase in footfall during the 2011/12 academic year, with 24,000 visits to the new premises.

Careers staff held over 380 specialist training sessions for students on career planning and research, job hunting and skills for the workplace, in addition to employer presentations and recruitment fairs. In a successful pilot scheme supported by Higher Education Innovation Funding, the University offered 100 funded internships for students and recent graduates in small and medium-sized enterprises in areas such as ecotourism, events marketing, development agencies and charities. In addition to this, many University departments (including Marketing and Communications, Sustainability and the Vice Chancellor’s office) also offered internships. The feedback from students, graduates and employers was overwhelmingly positive.

The number of students who registered for the Bristol PLuS Awards in 2011/12 rose by 48 per cent to 1,200; the number completing the award increased by 15 per cent to 300. Over 1,200 students now participate in the Bristol PLuS Awards. A new addition to the scheme is the Bristol PLuS Sustainability Award, which encourages participants to devote 25 of the required 50 hours to activities with a positive environmental, social or ethical impact.

Student feedback and satisfaction
Statistics on student satisfaction were gathered through local, national and international surveys such as the National Student Survey (NSS) and the Bristol-Barometer Survey. In the NSS, 86 per cent of Bristol respondents expressed satisfaction overall (against a national average of 85 per cent) and 90 per cent expressed satisfaction with the teaching on their course.

Schemes introduced to address the issues raised in these and other surveys included a series of focus groups in schools and a continuation of the “You Said, We Listened” campaign.

Widening participation
The University continues to invest in a wide range of activity to encourage the most able, least likely students to apply to study at Bristol. Among the activities in 2011/12 was the Access to Bristol Scheme, which now offers 15 subject streams and hosted 288 students from over 49 local schools. Pathways to Law offered a two-year Law programme for 110 students from 36 schools. The University also took part in the Realising Opportunities Programme in partnership with 11 other institutions. This programme provides opportunities for young people across the UK to engage
Education and the student experience continued

with, and prepare to study at, research-intensive universities. The University also retained the Frank Buttle Trust Quality Mark for supporting care leavers (initially awarded in 2009/10).

Chemistry LabSkills goes global
The award-winning Chemistry LabSkills software, developed by Bristol ChemLabS and Learning Science Ltd, is to be used in chemistry classes around the world, thanks to a partnership with Cengage Learning, one of the world’s most successful science publishers and a leader in electronic publishing. The partnership is developing a new, online version of the Chemistry LabSkills package, which was launched in 2008 as a platform for e-learning and skills development through practical, science-based, interactive tasks.

First intake of Lloyds Scholars at Bristol
Fifteen students from the University have been accepted onto the Lloyds Scholars Programme, a new initiative designed to support and encourage students from below-average income families to study at leading universities.

Bristol was one of two UK universities involved in the pilot year of the scheme, which aims to help students enhance their academic qualifications through providing financial support, mentoring and volunteering opportunities. The successful 15 students went through a challenging assessment centre and had to meet a number of criteria to be accepted onto the programme. In return they receive bursaries and performance-related awards worth up to £10,000 over three years, plus work experience and skills to help them develop a competitive edge at the end of their studies.

Biosciences accreditation for Biochemistry BSc
Bristol became one of the first UK universities to receive accreditation for its undergraduate biochemistry course as part of a new scheme designed to raise the standard of bioscience higher education.
University Teaching Fellowships
University teaching Fellowships are awarded through open competition to members of academic staff to enable them to spend up to one year on researching and disseminating innovative teaching and learning practices at a national or international level. Fellowships were awarded in 2011/12 to Dr Michele Barbour (PhD 2003, PGCE 2007) (Oral and Dental Sciences) and Professor Bruce Hood (Experimental Psychology) for the 2012/13 academic year.

University Teaching and Learning Awards
The University presents awards annually to celebrate and recognise excellent teachers as well as individuals who support teaching and learning. Awards are made in a number of categories and are judged by a panel of Education Directors, chaired by Professor Nick Lieven, the Pro Vice-Chancellor for Education.

The University Teaching and Learning Awards, which recognise excellent teachers, were given this year to:

- **Barbara Perks**
  School of Physics

- **Dr Catherine O’Rawe**
  School of Modern Languages

- **Dr Josie McLellan**
  School of Humanities

- **Dr Chris Metcalfe**
  School of Community and Social Medicine

- **Liz Gaze, Dr Gus Cameron and colleagues in the Centre for Comparative and Clinical Anatomy**
  Faculty of Medical and Veterinary Sciences

- **Dr Val Williams**
  School of Policy Studies

- **Dr Mark Dennis**
  School of Physics

- **Simon McIntosh-Smith**
  Merchant Venturers School of Engineering

- **Dr Alaa Daud (MSc 2010)**
  School of Oral and Dental Sciences

The use of e-learning in programme delivery and support of staff and students is recognised through the University e-Learning Award, which this year went to Andrea Zhok and Elena McNeilly (School of Modern Languages).

The Award for Influence in Higher Education, recognising academic staff who raise the profile of education and influence higher education beyond the University of Bristol, was given to:

- **Dr Tony Hoare**
  Widening Participation Research Cluster

- **Professor Judy Harris**
  School of Physiology and Pharmacology

A new ‘Education for Sustainability’ Award, sponsored by Sustainability via Green Impact and the Green Academy, recognises academics who have shown innovation in integrating education for sustainability into current teaching. The inaugural award was given to Dr David Drury (MEng 1997, PhD 2006) (Merchant Venturers School of Engineering).
Statistics and commentary

**Financial support to students**
The University can provide financial support to students in the form of bursaries, scholarships and discretionary assistance from hardship funds. In 2011/12, the University disbursed the following amounts in these kinds of financial support:

<table>
<thead>
<tr>
<th></th>
<th>Bursaries</th>
<th>Scholarships</th>
<th>Hardship funds</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Undergraduate</strong></td>
<td>3,496,043</td>
<td>194,815</td>
<td>345,163</td>
</tr>
<tr>
<td><strong>Postgraduate</strong></td>
<td>125,040</td>
<td>1,990,981</td>
<td>60,975</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3,621,083</td>
<td>2,185,796</td>
<td>406,138</td>
</tr>
</tbody>
</table>

**Total student numbers 2011/12**

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Postgraduate taught</th>
<th>Postgraduate research</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>2,870 (78.1%)</td>
<td>514 (14%)</td>
<td>293 (8%)</td>
<td>3,677</td>
</tr>
<tr>
<td>Science</td>
<td>2,974 (78.8%)</td>
<td>140 (3.7%)</td>
<td>659 (17.5%)</td>
<td>3,773</td>
</tr>
<tr>
<td>Engineering</td>
<td>1,881 (74.4%)</td>
<td>315 (12.5%)</td>
<td>331 (13.1%)</td>
<td>2,527</td>
</tr>
<tr>
<td>Medical and Veterinary Sciences</td>
<td>1,540 (81.1%)</td>
<td>102 (6.4%)</td>
<td>257 (13.5%)</td>
<td>1,899</td>
</tr>
<tr>
<td>Medicine and Dentistry</td>
<td>1,707 (73.1%)</td>
<td>454 (19.4%)</td>
<td>174 (7.5%)</td>
<td>2,335</td>
</tr>
<tr>
<td>Social Sciences and Law</td>
<td>2,467 (60.6%)</td>
<td>1,896 (37.6%)</td>
<td>508 (11.6%)</td>
<td>4,871</td>
</tr>
<tr>
<td><strong>Year total</strong></td>
<td>13,459 (70.4%)</td>
<td>3,381 (17.7%)</td>
<td>2,282 (11.9%)</td>
<td>19,122</td>
</tr>
</tbody>
</table>

**Total student numbers 2010/11**

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Postgraduate taught</th>
<th>Postgraduate research</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>2,721 (79%)</td>
<td>435 (12.6%)</td>
<td>290 (8.4%)</td>
<td>3,446</td>
</tr>
<tr>
<td>Science</td>
<td>2,912 (81.6%)</td>
<td>131 (3.7%)</td>
<td>524 (14.7%)</td>
<td>3,567</td>
</tr>
<tr>
<td>Engineering</td>
<td>1,735 (69.7%)</td>
<td>425 (17.0%)</td>
<td>327 (13.1%)</td>
<td>2,487</td>
</tr>
<tr>
<td>Medical and Veterinary Sciences</td>
<td>1,449 (82.2%)</td>
<td>85 (4.7%)</td>
<td>240 (13.2%)</td>
<td>1,674</td>
</tr>
<tr>
<td>Medicine and Dentistry</td>
<td>1,677 (69.9%)</td>
<td>549 (22.9%)</td>
<td>172 (7.2%)</td>
<td>2,398</td>
</tr>
<tr>
<td>Social Sciences and Law</td>
<td>2,544 (49.5%)</td>
<td>2,024 (39.4%)</td>
<td>576 (11.2%)</td>
<td>5,144</td>
</tr>
<tr>
<td><strong>Year total</strong></td>
<td>13,182 (69.5%)</td>
<td>3,645 (19.2%)</td>
<td>2,138 (11.3%)</td>
<td>18,965</td>
</tr>
</tbody>
</table>

**Number of degrees awarded**

<table>
<thead>
<tr>
<th></th>
<th>2011/12</th>
<th>2010/11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>3,016</td>
<td>3,110</td>
</tr>
<tr>
<td>Postgraduate taught</td>
<td>2,431</td>
<td>1,899</td>
</tr>
<tr>
<td>Postgraduate research</td>
<td>605</td>
<td>564</td>
</tr>
</tbody>
</table>

**Graduate destinations**

Every year, new graduates are asked to complete a questionnaire concerning their employment or study status. The resulting figures enable the University to build a year-on-year picture of the destinations of its graduates.

<table>
<thead>
<tr>
<th><strong>Graduate destinations 2011</strong></th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time paid work</td>
<td>51.4%</td>
</tr>
<tr>
<td>Part-time paid work</td>
<td>6.5%</td>
</tr>
<tr>
<td>Voluntary/unpaid work</td>
<td>3.0%</td>
</tr>
<tr>
<td>Work and further study</td>
<td>6.7%</td>
</tr>
<tr>
<td>Further study</td>
<td>20.0%</td>
</tr>
<tr>
<td>Assumed to be unemployed</td>
<td>5.3%</td>
</tr>
<tr>
<td>Not available for employment</td>
<td>3.5%</td>
</tr>
<tr>
<td>Other</td>
<td>1.1%</td>
</tr>
<tr>
<td>Explicit refusal</td>
<td>1.9%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Graduate destinations 2010</strong></th>
<th>%</th>
</tr>
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<tbody>
<tr>
<td>Full-time paid work</td>
<td>53.5%</td>
</tr>
<tr>
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<td>Not available for employment</td>
<td>3.7%</td>
</tr>
<tr>
<td>Other</td>
<td>1.0%</td>
</tr>
<tr>
<td>Explicit refusal</td>
<td>1.8%</td>
</tr>
</tbody>
</table>
Research
The University’s research is world renowned for its quality and impact and covers a broad spectrum of disciplines. We tackle the world’s most urgent issues head-on; issues such as health and disease, climate change, food security, energy, and social justice. Our academics are also engaged with the cultural life and history of nations, communities and individuals across the world; with the future of technology, science and medicine and the development of innovations in every field; and with the rich cross-pollination made possible by interdisciplinary fields such as nanotechnology, quantum cryptography, composite materials, stem-cell engineering, and complexity science.

New centre for composite materials
A major new centre for innovation in composite materials, hosted and owned by the University of Bristol, is open for business. The National Composites Centre (NCC), a £25-million investment supported by the Department for Business, Innovation and Skills, the South West Regional Development Agency and the European Regional Development Fund, was formally opened by the Business Secretary, Dr Vince Cable, in November 2011.

Composite technology is transforming a wide range of industries, with applications to the manufacture of electric cars, tidal turbine blades, aircraft wings, medical equipment, and much more. The NCC will bring together dynamic companies and enterprising academics to develop new technologies for the design and rapid manufacture of high-quality composite products. It is also part of the High Value Manufacturing (HVM) Technology and Innovation Centre initiative, a network of world-leading technology and innovation centres that aim to transform the UK’s capability for innovation.

The Centre has powerful support from industry members: AgustaWestland, Airbus, Rolls-Royce, GKN, Umeco and Vestas have already committed almost £5.5 million of work over three years. It is located at the new Bristol and Bath Science Park, in which the University is a key stakeholder, and which serves as a hub for many of the region’s science and technology businesses.

University Research Institutes
The academic year 2011/12 saw the formal approval by Senate and the University Planning and Resource Committee for the first two University Research Institutes (URIs), which serve as focal points for the wide-ranging research conducted at Bristol to tackle key global issues. The Cabot Institute, having been founded in 2010 to bring together research groups and individuals working on themes connected with global uncertainty and the environment, became the first URI; the second draws together the many strands of health research at the University and is a key player in Bristol Health Partners, a major new partnership (with the local NHS Trusts, Bristol City Council and the University of the West of England) that aims to improve healthcare services in Bristol by integrating, promoting and developing the city’s strengths in clinical services, research, innovation and education. URI Health was launched in August 2012.

Funding boost for creative industries
The University is a key partner in a new Knowledge Exchange Hub for the region. The Research and Enterprise in Arts and Creative Technologies Hub (REACT) for Bristol, the South West of England and South Wales is one of four funded by the Arts and Humanities Research Council (AHRC) to boost their respective regions’ creative economy. Other partners in REACT are the Universities of Bath, Cardiff, Exeter and the West of England and the Watershed Arts Trust (and iShed). REACT will invest £3 million in up to 70 themed projects over four years.
Cord blood could mend hearts
Stem cells from umbilical cord blood could help repair damaged heart muscle, according to a study led by Professor Raimondo Ascione (ChM 2007), Chair of Cardiac Surgery and Translational Research in the School of Clinical Sciences. The research, funded by the British Heart Foundation and the National Institute for Health Research, found that it is possible to expand up to seven-fold, in vitro, a rare variety of stem cells (called CD133+) from human cord blood and then grow them into cardiac muscle cells. The findings, published online in *Stem Cell Reviews & Reports*, could have major implications for future treatment following a heart attack.

Partner abuse is ‘normal’ say disadvantaged youth
The levels of violence girls and boys from disadvantaged backgrounds experience in their partner relationships is revealed in research funded by the NSPCC and led by Christine Barter, Senior Research Fellow in the School for Policy Studies. The report, ‘Standing on my own two feet’, is the first in-depth look at violence in the intimate relationships of disadvantaged teenagers not in mainstream education. The researchers interviewed 82 boys and girls aged 13-18, some of whom had been permanently excluded from school, or were young offenders or teenage mothers. Over half of the girls reported that they had been a victim of physical violence in at least one intimate relationship, and a quarter of boys said they had dated physically aggressive partners. Many appeared to accept violence as a normal, although unwanted, aspect of being in a relationship. The problem was highlighted in a Home Office teen violence campaign launched the same month.

Archaeology + geology + biology = ant nests in four dimensions
A novel application of CT scanning technology has allowed an interdisciplinary team to create a four-dimensional picture of how ants build their nests – some of the most remarkable structures in nature. Nests are built collectively, through self-organisation and local interactions of ants with one another and their environment, but previous studies used plaster casts that destroy the nests.

Jetlagged racehorses see the light
A study led by Dr Domingo Tortonese in the School of Veterinary Sciences has shown that racehorses can adapt very quickly to sudden shifts in the 24-hour light-dark cycle, such as those resulting from a transmeridian flight, with unexpected benefits to their physical performance.

One step closer to a quantum computer
Researchers from the Centre for Quantum Photonics have developed a multi-purpose optical chip that represents an important step forward in the race to develop a quantum computer. The chip generates, manipulates and measures entanglement and mixture – two quantum phenomena which are essential driving forces for quantum computation.

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The Bristol researchers, led by Peter Shadbolt, have shown for the first time that entanglement (a connection between two
distant particles) can be generated, manipulated and measured entirely on a tiny silica chip. They have also used this chip to measure mixture – an often unwanted effect, which can now be controlled and used to characterise quantum circuits. The 70mm x 3mm chip performs several experiments that would ordinarily need a large optical bench. It consists of a network of tiny channels which guide and manipulate single photons. Using eight reconfigurable electrodes embedded in the circuit, photon pairs can be manipulated and entangled, producing any possible entangled state of two photons or any mixed state of one photon. The researchers are now working on scaling up the complexity of this device.

‘Royal’ coffin found in seaside museum
Dr Aidan Dodson, a senior research fellow in Bristol’s Department of Archaeology and Anthropology, discovered an extremely rare Egyptian coffin at Torquay Museum while undertaking a long-term project to catalogue Egyptian coffins in English and Welsh provincial museums.

The child’s coffin was cut from a single log of cedar wood and is exquisitely carved, inlaid and painted. Its present occupant is in fact nearly 1,000 years younger than the coffin itself, which may originally have been made for a junior member of royalty somewhere between 1525 BC and 1470 BC.

Bristol spin-out company AIMs high
Revolymer, the British polymer company co-founded by Professor Terence Cosgrove (DSc 1991) based on technology he developed at Bristol, was listed on AIM, the London Stock Exchange’s international market for smaller growing companies. Revolymer conditionally placed a total of 25,000,000 Placing Shares with institutional investors at a price of 100 pence per Placing Share (“Placing Price”) to raise gross proceeds of £25 million.

The net proceeds of the Placing primarily to expand the distribution of its confectionery gum products in the USA and into Europe, to fund additional regulatory dossiers in connection with its nicotine gum commercialisation, and to fund the development of its consumer specialties products.

Bristol New Enterprise Competition
The winner of the University’s 2011 New Enterprise Competition (organised to inspire new business ideas and entrepreneurial talent among students, staff and recent graduates) was Rusty Squid Ltd, whose team of roboticists, puppeteers and model makers design and build ‘corporeal’ creatures which can interact with people. Their ‘soft robotics’ creations have already proved popular with theatres and museums, and with marketing companies. Final-year Physics PhD student Brendan Arnold put Rusty Squid’s business plan together and works alongside company directors David McGoran, Roseanne Wakely and Paul O’Dowd.

Second place went to students Sam Harris and Nishil Raichura for Pedal Power Transport, a courier and taxi business powered by people rather than petrol. They have specialised rickshaws which allow them to make deliveries of people and parcels around the city, offering a high-quality, competitive and eco-friendly service.

Two teams of Engineering students shared third place: Cleatfit (Sam Barrett (MEng 2012), Madeline Burke (MEng 2012), Leo Morgan (MEng 2012), James Gray (MEng 2012) and Odysseas Pappas (MEng 2012)), a mechanical solution for cyclists to accurately replace the cleats that fasten their cycling shoes to their pedals; and Flare (Tim Ankers (MEng 2012), Laura Clare (MEng 2012), Will Tiley (MEng 2012), George Cusworth (MEng 2012), Dave Green (MEng 2012) and Claire Tobin (MEng 2012)), which designs organic cotton bags that use colour-changing technology to indicate when UV radiation from the sun has reached specific intensities.

This year’s competition entries were judged by a panel of industry experts from sponsoring organisations including Deloitte, EADS, IP Group, Motorola, Santander, SETsquared Business Acceleration Centre (Bristol), Veale Wasbrough Vizards, and Wyvern Seed Fund.
Grants

The University attracted a total of £126.4 million in grants during 2011/12. This included the following:

£1.3 million from the European Research Council (ERC) to Dr Paul Curnow (PhD 2003) in the School of Biochemistry for a study of minuscule algae cells that are able to produce silica – the fundamental constituent of glass – in the hope that his findings could lead to a new generation of medical imaging tools.

£960,000 from the ERC to Professor Samir Okasha and Professor Ken Binmore in the Department of Philosophy for their project ‘Darwinism and the Theory of Rational Choice’.

Over €3 million (€2 million from the European Commission plus a €1.1 million CHIST-ERA award from European funding agencies including the EPSRC) to Dr Ruth Oulton and Professor John Rarity at the Centre for Quantum Photonics to address the problem of sending information in single quantum particles over global distances by using semiconductor devices on the nanoscale.

£900,000 from the Natural Environment Research Council (NERC) and the Economic and Social Research Council (ESRC) as part of a larger grant for a collaborative study (with the universities of East Anglia, Oxford and Leeds, the British Geological Survey and the Overseas Development Institute, plus overseas partners) exploring better ways to forecast and cope with future volcanic eruptions.

£2.7 million from the Biotechnology and Biological Sciences Research Council (BBSRC), the State of São Paulo Research Foundation (FAPESP, Brazil) and the British Heart Foundation to a research team comprising members of the University of Bristol, the Bristol Heart Institute and the University of São Paulo, to explore possible new blood pressure treatments that target the nervous system.

€500,000 to Dr Simon O’Doherty (MSc 1988, PhD 1991) in the School of Chemistry as part of InGOS (Integrated non-CO2 Greenhouse gas Observing System), an EU-funded project to monitor emissions of methane, nitrous oxide and other non-CO2 greenhouse gases and improve the observational infrastructure.

A total of over £1 million from Action Medical Research and the Medical Research Council to Bristol neuroscientists led by Dr Nadia Cerminara, Professor Richard Apps and Dr Richard Edwards to target childhood cancer, explore how the brain controls movement, and tackle the high-risk surgery involved in treating brain tumours in children.

£297,000 from the British Heart Foundation to the Bristol Heart Institute for a project led by Gavin Murphy, Reader in Cardiac Surgery, to develop blood transfusion methods that reduce the risk of organ injury during cardiac surgery.

£750,000 from the UK Medical Research Council (MRC) for research led by Dr Ariel Blocker from the School of Cellular and Molecular Medicine (in collaboration with Dr Luca Giuggioli at the Centre for Complexity Sciences and Professor Keiichi Namba at the University of Osaka, Japan) into the mechanisms behind infectious diseases, focusing on how a dysentery-causing bacterium infects its human host.

Over £640,000 from the EPSRC to Dr Martin Cryan in the Department of Electrical and Electronic Engineering (in collaboration with Dr Geoff Nash from the University of Exeter) to develop a new type of nanoscale lens technology that it is hoped will revolutionise the semiconductor laser (which powers the internet, laser machining, the defence industry and scientific research).
Students

Every year, Bristol’s students reach beyond the basic requirements of their studies and demonstrate their initiative, energy and enthusiasm in a tremendous range of different contexts – academic, sporting, business and volunteering, to name just a few. The University endeavours to provide a supportive environment for such talented individuals to thrive and excel in every aspect of their lives at Bristol. It is committed to providing a full range of services and facilities that will enable students to make the most of their university career and equip them to become tomorrow’s leaders and pioneers.

The University’s priorities in this area are to:

- ensure a fair and transparent system of student representation that provides students with the opportunity to shape their educational and extra-curricular experience;
- support a vibrant, active and democratic Students’ Union;
- ensure the provision of learning and skills opportunities that enhance students’ future employability;
- offer a rewarding extra-curricular experience that provides for students’ health, well-being and personal development;
- provide advice and support for students’ personal welfare and ensure effective integration into the University and local community.

Bristol students in the charitable and voluntary sector

The Students’ Union emphasises to its members the importance of escaping the ‘student bubble’ and engaging with the local community in a positive way. The University of Bristol Union’s (UBU) Raising and Giving (RAG) and Volunteering programmes offer a tremendous range of opportunities for charitable work, along with related training and personal development courses to help students complement their academic work and enhance their CVs.

RAG

In the year 2011/12, RAG activities raised over £134,000 through a varied programme that included street collections, skydiving, an overnight soccathon, building ‘Britain’s Biggest Burrito’, and the traditional RAG procession through the streets of Bristol.

Volunteering

During 2011/12, UBU Volunteering ran 41 student-led projects involving over 1,000 students, and ran training programmes for over 400 volunteers, with sessions including ‘Learning Disability and Autism Awareness’, ‘Effective Communication’ and ‘Working in Schools’.

Long-running events such as a Christmas party for local children and a dinner dance for disadvantaged residents are joined on the roster by new student-led initiatives including a project providing literacy and numeracy support for the long-term unemployed.

Extraordinary success for Bristol engineers

More than a quarter of the national Royal Academy of Engineering Leadership Advanced Awards were awarded to students at Bristol. The ten students in the Faculty of Engineering selected as ‘inspirational role models to the next generation of engineers’ were: Peter Cooper, Arthur Mitchell and Thomas O’Neill (Engineering Design); Dominic Chapman and Shashitha Kularatna (Aerospace Engineering); Matthew Oliver, William Thurston and Benedict Sayer (Civil Engineering); and Marcus Scaramanga and Macdara O’Shea (Mechanical Engineering).

The students competed in a challenging selection event against over 200 students from UK universities to win the award.

Students and alumni excel at Olympics

Bristol students past and present triumphed at the London 2012 Olympic Games, collecting a total of five medals.

Laura Bechtolsheimer (BSc 2007) won gold as a member of the dressage team plus an individual dressage bronze; sailor Hannah Mills, a student in Mechanical Engineering, secured a silver in the women’s 470 sailing with partner Saskia Clark; Iain Percy (BSc 1998) and his partner Andrew Simpson took a silver medal in the star class sailing; and hockey player Georgie Twigg (BA 2012) helped the women’s GB hockey team win a bronze.

The closing ceremony (designed by Bristol alumna Es Devlin (BA 1993)) included a performance by Bristol student RAG Morris dancers, who accompanied Eric Idle. The
Students continued

Student awards and prizes

Bristol engineer receives ‘Student of the Year’ award
Stephen Thompson (MEng 2011), a student in the Department of Civil Engineering, was one of the winners of the international 2011 Science, Engineering & Technology Student of the Year awards. Stephen received the Laing O’Rourke Award for ‘Best Civil Engineering Student’ for his project entitled ‘Redevelopment of the Colston Hall’, supported by Arup’s Bristol office. Record numbers of entries were received from every major university in Europe; two other Bristol students were also shortlisted for the awards, which are supported by industry and leading research institutions including Airbus, BP, Kraft Foods, National Grid, and Lloyd's Register Educational Trust.

Fulbright Award for complex approach to music
Matt McVicar (MSc 2008, MRes 2010), a PhD student at the Bristol Centre for Complexity Sciences (BCCS), has gained a prestigious Fulbright Award to pursue research into developing automatic methods of musical analysis. His research has already shown that taking account of the complexity of interactions between aspects such as the chords, key, bassline and beat structure leads to greater accuracy of chord recognition. The award will allow Matt to spend a year at Columbia University in New York, with Professor Dan Ellis at the Laboratory for Recognition and Organization of Speech and Audio.

Archaeology student strikes gold
Jimena Lobo Guerrero Arenas, a postgraduate student in the Department of Archaeology and Anthropology, was awarded a Short Term Research Grant from Harvard University for research into early colonial gold-working in Colombia. Her project, which involves fieldwork and archival research, focuses on metallurgy and mining after the 16th-century Spanish conquest. It includes the study of individual craftsmen and workshops, the reconstruction of the technology and organisation of metal production, and the roles played by metal items in the cultural milieu of the period.

A sporting legacy for Kenya
Juliette Denny, a postgraduate Geology student, helped to sow the seeds for a lasting Olympic legacy in Kenya. She spent four weeks there in 2011 with other young volunteers from Bristol, promoting sport and community ties as part of Umoja, the Bristol-Kenya Partnership. Together they built a football pitch, two netball pitches, a volleyball pitch, a cricket pitch and a long jump track and pit for a local community to use.

Umoja, from the Swahili word for ‘togetherness’, was formed as a result of the friendship between Bob Reeves (MED 1982) (former Director of Sport Exercise and Health at Bristol) and renowned Kenyan athlete Kip Keino (Honorary LLD 2007). The charity fostered sporting, educational, cultural and commercial links between Bristol and Kenya ahead of the 2012 London Olympic Games. The entire Kenyan squad based themselves in the city for their pre-Olympics training camp.

Tom Flynn named Best Student Journalist
Tom Flynn, the editor of the University’s student newspaper Epigram, was awarded Best Student Journalist of the Year in the National Union of Students (NUS) Awards 2012. The award ceremony was the culminating event at the NUS Students’ Unions 2012 summer conference in Exeter.

PhD student wins dissertation prize
Stefano Longo (PhD 2011), who completed his PhD in the Dynamics and Control Research Group at the Queens School of Engineering, won the 2011 Institution of Engineering and Technology’s (IET) Control and Automation Doctoral Dissertation prize for his work on ‘Optimal and robust scheduling for networked control systems’. The IET Ambition and Achievement Awards recognise some of the world’s most outstanding engineers and technologists and acknowledge the talents of exceptional students and young professionals.

Award for fighting food poverty
FoodCycle Bristol, an initiative run by students at Bristol to help alleviate food poverty in the city, was named Best Social Enterprise at the SETsquared Partnership’s second annual student enterprise awards. FoodCycle Bristol provides free meals for the community using food which would otherwise be thrown away. The scheme, established in 2009, serves free three-course meals to beneficiaries in Easton every Sunday from its base in Easton Community Centre.
It is co-ordinated by students and volunteers from throughout the community who help run the kitchen and collect the waste food using bicycle trailers. FoodCycle hopes to set up a second community kitchen in the near future.

Low-carbon research wins first prize
Jo Humphrey (MSc 2012), a final-year undergraduate in the School of Chemistry, was awarded first prize in a competition that recognises outstanding student research in the area of low-carbon technologies. Jo’s work with the Electrochemistry Group involved finding new materials for fuel cell applications, and she focused on developing specialist low-cost diamond powders, which can replace conventional electrocatalyst coatings and offer significantly improved lifespans for fuel cells.

The competition is sponsored by Low Carbon South West, a partnership between businesses, academia, and local authorities promoting the growth of the environmental technologies and services sector in the South West.

Economics student goes global
Shaun Miller (BSc 2012), a final-year Economics undergraduate, was named a Kauffman Global Scholar after winning a competition organised by the SETsquared Partnership. Shaun’s winning entry was a motion tracking device that connects with mobile phones and computers, which will have a wide range of applications.

Kauffman Global Scholars is a fully funded, 15-month programme that includes a six-month stay in the USA with fellow scholars, during which they will visit Stanford and Harvard Universities and the Massachusetts Institute of Technology. This is then followed by a three-month internship at a technology company to understand the real-life challenges and rewards of entrepreneurship. Before going to the USA, Shaun will be the ‘Entrepreneur in Residence’ at Bristol, with an opportunity to develop his business concept while networking with entrepreneurs, investors, and service providers in the UK. He will also encourage and enable students to work on their own entrepreneurial ideas.

SPAI S undergraduates head to Canada
Four students from the School of Sociology, Politics and International Studies (SPAI S) were accepted to give papers at the Tomorrow’s Ideas, Now (TIN) International Undergraduate Interdisciplinary Conference at the University of Alberta, Edmonton, Canada, in August 2012. Luke de Noronha (BSc 2012), Lizzie Packham (BSc 2012), Alice Peck (BSc 2012) and Mara Ruse (BSc 2012) were among some 80 applicants for this international event. This initiative came about as a result of co-operation between Bristol’s Institute for Advanced Studies (IAS) and its equivalent at Alberta, the Kule Institute for Advanced Studies, and the students will be co-funded accordingly.

Best lectures go free-range
Free Range University, a social enterprise started by Bristol students and alumni, is expanding to universities across the UK, giving members of the public a unique opportunity to experience inspirational teaching for free.

Tom Corfield (MEng 2009) developed the Best of Bristol Lectures (BoB) idea after he decided to sit in on some of his friends’ favourite lectures. Over 2,000 students voted on which teachers from across the University they felt were the most interesting and engaging, leading to a series of lunchtime lectures attended by more than 6,000 students, staff and members of the public. He graduated in 2009 and secured funding from the University and from social enterprise charity UnLtd to turn the BoB concept into the Free Range University, or Fruni (www.fruni.org.uk), an online platform which allows students at any university to replicate the model.
Staff

The University strives hard to make Bristol an attractive employer for highly talented academic and support staff. The range and quality of the work undertaken by academic and support staff continues to inspire, and here we report on new initiatives in this field and on some outstanding examples of collective and individual achievement.

**Human Resources Operations**

In 2011/12, Human Resources implemented a number of changes to further improve efficiency and performance. For example, Human Resources (HR) Operations teams are now located with their Faculties/Divisions so that HR Operations teams form a more integral part of their Faculty/Division. HR Operations teams are also now working more closely with Finance and Payroll to improve the efficiency and delivery of services and this is beginning to deliver returns through an improved service.

HR Operations teams successfully implemented the revised Promotions and Progression procedure, with support from the Organisational Development team.

In the coming year a major project to replace HR’s People Information Management System (PiMS) with an integrated HR, Finance and Payroll system is underway and HR Operations will be working closely with Finance and Payroll to progress this.

**Organisational development**

The expanded Organisational Development (OD) team – now comprised of Equality and Diversity; Change Management; Staff Development; Policy and Reward; Resourcing; and Systems – came into operation in 2011/12. This new OD team has carried out a number of improvement activities including its Creating Excellence programme, which was developed specifically to support new teams and new ways of working.

A review of the leadership and management-development needs for support staff is currently underway, with development programmes for both first-line and middle managers planned for 2012/13.

In January 2012 work began on delivering a Career Framework for support staff.

A working group, involving managers from across the University and the trade unions, has identified some initial potential career pathways and is now mapping the skills, knowledge and experience needed at each stage and the potential training opportunities.

In addition, a new initiative, the Performance Enhancement project, aims to create a culture in which employees can feel confident about their performance in their current role and have clear structure for their career progression. OD is also prioritising its discussions with senior managers to create a more structured approach to talent management and succession planning.

Other initiatives include:

- plans to introduce a streamlined course-booking system;
- a pilot mentoring scheme, for both academic and support staff;
- a new e-recruitment system.

A third staff survey was carried out in early 2012, and 49 per cent of all staff – the highest number yet – responded. A full report together with an associated action plan is due to be published during the 2012/13 Autumn Term.

**Equality and diversity**

The main focus for the Equality and Diversity team in 2011/12 has been on improving the representation of women in academic leadership roles. As a result Council has agreed to a set of recommendations that are now being implemented across the University to increase gender diversity in senior academic roles. The team has also worked closely with colleagues in the Medical Faculty on preparing submissions for recognition under the Athena SWAN (Scientific Women’s Academic Network) Charter – a national scheme that recognises excellence in the employment of women in the fields of science, technology,
engineering, maths and medicine (STEMM). In 2012, two schools were formally recognised under the Charter for supporting the career development of their female staff: the School of Chemistry received a Bronze award and the School of Physiology and Pharmacology successfully renewed its Silver award.

Other activities include:

- developing policies, procedures and processes to ensure that the University can demonstrate due regard to equality of opportunity;
- developing, with the support of members of the University’s Individual Circumstances Group, a Code of Practice for submission as part of REF2014;
- continuing collaboration with the Russell Group Equality Forum on key issues connected to equality and diversity.

Influencing policy

Many Bristol academics achieve the distinction of being appointed to sit on the boards and decision-making committees of government and non-profit organisations, which in many cases enables them to contribute to shaping national and international policy. Some examples from the year include:

- Professor Patricia Broadfoot (DSc 2000, Honorary LLD 2010) from the University’s Graduate School of Education was appointed a member of a new Social Science Expert Panel for the Department for Environment and Rural Affairs (Defra) and the Department of Energy and Climate Change (DECC).
- Jonathan Sterne, Professor of Medical Statistics and Epidemiology, and Debbie Lawlor (MB ChB 1986), Professor of Epidemiology in the School of Social and Community Medicine, were two of 25 new Senior Investigators to represent the country’s most outstanding leaders of clinical and applied health and social care research by the National Institute for Health Research (NIHR).
- Gianni Angelini, British Heart Foundation (BHF) Professor of Cardiac Surgery in the School of Clinical Sciences and Bristol Heart Institute, was one of 29 NIHR Senior Investigators who were re-appointed.
- Dr Pat Kehoe, Reader in Translational Dementia Research in the School of Clinical Sciences was invited to join the Research Advisory Committee (RAC) of the Alzheimer’s Society.
- Varinder Aggarwal, Professor in the School of Chemistry, Alasdair Houston, Professor of Theoretical Biology in the School of Biological Sciences, Richard Kerswell, Professor of Applied Mathematics in the School of Mathematics, and John McNamara, Professor of Mathematics and Biology in the School of Mathematics, were all elected Fellows of the Royal Society.
- Dr Pat Kehoe, Reader in Translational Dementia Research in the School of Clinical Sciences was invited to join the Research Advisory Committee (RAC) of the Alzheimer’s Society.
- Professor Varinder Aggarwal RRS, Professor Debbie Lawlor

Fellowships and professional appointments

Many members of staff represent the University through prestigious Fellowships and membership of professional organisations. The year 2011/12 saw the following appointments, among others:

- Varinder Aggarwal, Professor in the School of Chemistry, Alasdair Houston, Professor of Theoretical Biology in the School of Biological Sciences, Richard Kerswell, Professor of Applied Mathematics in the School of Mathematics, and John McNamara, Professor of Mathematics and Biology in the School of Mathematics, were all elected Fellows of the Royal Society.
- Professor Gillian Clark of the Department of Classics and Ancient History was elected a Fellow of the British Academy.
- Debbie Lawlor (MB ChB 1986), Professor of Epidemiology at the University’s School of Social and Community Medicine, was elected to the Fellowship of the Academy of Medical Sciences.
- Mario di Bernardo (PhD 1998), Professor of Nonlinear Systems and Control in the Department of Engineering Mathematics and a member of the Bristol Centre for Complexity Sciences, was named a Fellow of the Institute of Electrical and Electronics Engineers (IEEE).
- Malcolm Evans, OBE, Professor of International Law, and one of the UK’s leading human rights experts, was awarded an Honorary Fellowship by Bangor University, Wales for his services to law.
- Haydn Mason, Emeritus Professor and Senior Research Fellow in the Department of French, was elected a Fellow of the Learned Society of Wales.
Mervyn Miles, Professor of Physics, Head of the Nanophysics and Soft Matter Group, and Director of the Centre for Nanoscience & Quantum Information at the University of Bristol, became the new Chief Scientific Advisor for IOP Publishing.

Staff continued

Awards and prizes

Staff continue to distinguish themselves through the receipt of awards and prizes. Accolades from the year include:

- Professor Kei Cho, Chair of Neuroscience in the University’s School of Clinical Sciences, received one of the Royal Society’s most prestigious awards, a Royal Society Wolfson Research Merit Award, for his work on synaptic plasticity and pathology in the brain.

- Three academics were awarded an Order of the British Empire (OBE): Professor Marianne Hester, Head of the Centre for Gender and Violence Research at the University’s School for Policy Studies, in recognition of her work to improve the quality of care given for women and children experiencing domestic violence and abuse; Professor Jean Golding (DSc 1994), Emeritus Professor of Paediatric and Perinatal Epidemiology, in recognition of the world-famous population study, Children of the 90s (also known as ALSPAC), which she founded in 1991; and Emeritus Professor Derek Offord, a specialist in 18th- and 19th-century Russian history, thought and literature, for services to Russian studies in language and culture.

- Four academics in Bristol’s School of Earth Sciences were awarded medals from the Geological Society: Dr Cherry Lewis (BSc 1994), an honorary Research Fellow, was awarded the Sue Tyler Friedman Medal; Willy Aspinall, Cabot Professor in Natural Hazards and Risk Science, received the William Smith Medal, for excellence in contributions to applied geoscience; Royal Society Research Fellow Dr Daniela Schmidt received the Lyell Fund, awarded to outstanding early career scientists; and Professor Christopher Hawkesworth, a Visiting Professor in the School of Earth Sciences, was awarded the Wollaston Medal, the highest award given by the Geological Society.

- Dr Heather Whitney (PhD 2002), Lecturer in Global Change in the School of Biological Sciences, has been awarded the 2012 President’s Medal in Plant Sciences by the Society for Experimental Biology, for her ground-breaking research on plant iridescence.

- Professor Katharine Cashman, AXA Professorial Research Fellow in the School of Earth Sciences, was elected to the American Academy of Arts and Sciences (AAAS).

- Professor Keith Stanton from the University’s Law School was elected President of the Society of Legal Scholars (SLS) for 2011/12.

- Professor Keith Edwards in the School of Biological Sciences was awarded the Royal Agricultural Society of England’s 2011 Research Medal.

- Mick Aston, Emeritus Professor of Landscape Archaeology, was given a Lifetime Achievement Award at the 2012 British Archaeological Awards.

- Clive Mason, a Teaching Fellow in the Centre for Deaf Studies, won Teacher of the Year for the South West region in the 2012 Signature Annual Awards.

- Libby Houston, Research Associate in Biological Sciences, was awarded the prestigious HH Bloomer medal by the Linnean Society for her contribution to natural history.
The engaged University

Public engagement at Bristol plays an important part in how we as a university connect and have dialogue with many of our key audiences.

The University’s priorities in this area are to:

• support and promote dialogue with staff/students and the public;
• play a leading role in setting the national agenda on public engagement in higher education;
• respond positively to community needs;
• play a positive role in the affairs of the city, region and nation;
• nurture relationships with alumni and other friends of the University;
• behave responsibly as an institution.

Playing a positive role in the city
The University’s Public Engagement strategy is set by the University’s Engaged University Steering Group and is managed by the Centre for Public Engagement (CPE) within the University’s Communications and Marketing Division. Over the past year CPE helped to organise a wide range of events, including:

• a festival, involving more than 200 academics and students, showcased research from across the University using 20 interactive exhibits. These ranged from life-sized model cows and images of trees carved by soldiers before going to war to giant structures showing the strength of nano materials. Over 1,500 members of the public and around 1,000 primary school children attended the event;
• ninety-one free public lectures and talks run by a variety of departments, which attracted over 20,000 people. Topics ranged from the psychology of language to using Twitter to assess public mood. A highlight was a public debate before the mayoral referendum, which attracted a capacity crowd;
• a new Festival of Arts, which included talks, concerts and workshops and showcased research from across the faculty;
• a collaboration with 16 other institutions to create an exhibit for the Royal Society’s Summer Science Exhibition to mark the anniversary of the discovery of cosmic rays and the subsequent progress in particle and astrophysics research. The exhibition also travelled to the Bristol Balloon Fiesta, where school children accompanied cosmic ray detectors on balloon flights;
• a new festival of history, made possible by a generous bequest to the School of Historical Studies;
• a University presence at the 2012 Festival of Nature, which attracted over 10,000 people. For the first time our contribution to the Festival was almost entirely student-led and included a game for youngsters on optimising pollination strategies.

Setting the national agenda
The University has agreed funding for the National Co-ordinating Centre for Public Engagement (NCCPE) beyond the end of its current funding period. Areas of close collaboration include working with the Higher Education Funding Council for England (HEFCE) on the inclusion of public engagement as a route to impact for Research Excellence Framework (REF) 2014. This year, CPE led two sessions at the NCCPE conference on engaged learning and partnership working.

Responding to community needs
Bristol’s Community Sport Programme has had another excellent year with more than 100 volunteer coaches and mentors from the University helping to promote sport and healthy living at the annual Festival of Sport. Over 1,300 school pupils took part in activities from football to Zumba classes. A series of CPE-led events brought together researchers in History, Archaeology, Drama and Computer Science to explore Bristol’s history and heritage. Members of the public brought some incredible memorabilia, including hand-drawn maps of the voyage of the Titanic and photographs depicting life in Bristol through the ages. The researchers are now working with community groups to develop follow-on projects, which should help bring Bristol’s history to life.
Nurturing relationships with alumni

The University of Bristol is proud of its 100,000-plus alumni, and works closely with its alumni association, Convocation, to keep the sense of alma mater strong. Although the focus is on alumni in greater Bristol (around 11,000) and greater London (around 40,000), the University reaches out to alumni in more than 170 nations around the world.

More than 11,000 people now use Bristol alumni LinkedIn and Facebook pages, tens of thousands read regular Bristol e-newsletters, and the award-winning Nonesuch magazine is posted to Bristol alumni twice a year.

With strong support from the Convocation Committee and other alumni volunteers around the world, the University holds a wide range of alumni events. In 2011/12, these included receptions at the House of Commons, a ‘new graduates London networking’ event, a Bristol lecture by Professor Chris Stringer FRS (PhD 1973, DSc 1990, Hon LLD 2000), a talk in New York by human rights expert Professor

Malcolm Evans, social events in Paris, Hong Kong, Victoria BC and Cambridge, and many more.

Perhaps the best evidence of the University’s strong engagement with alumni and other supporters is that Bristol has more alumni donors than any other UK university, apart from Oxford and Cambridge. More than 6,500 alumni gave gifts in 2011/12, with 301 of these giving at Pioneer level (see pp27-28).
Estate development

The University continued to make substantial investment in its academic and residential estate throughout 2011/12, while ensuring that it operated in a financially responsible and sustainable manner.

The University's priorities in this area are to:

- provide all parts of the University with flexible accommodation which is of a quality, size and functionality appropriate to the activities to be delivered and which supports the University's vision;
- ensure the most efficient use of existing space and the development of capacity within the central precinct area wherever appropriate;
- continue to work to reduce carbon emissions and improve the sustainability of the physical estate;
- provide residential accommodation which is attractive to students in form, service and location;
- deliver an ambitious capital programme in support of the renewal of accommodation and the creation of adaptive capacity;
- provide an attractive, safe, accessible and welcoming setting for University buildings that is sympathetic to the wider urban context;
- produce a new Estate Strategy to inform future strategic decisions about the size, nature and direction of the University's estate.

An ambitious building programme

The University is committed to the largest estate investment programme in its history, with £200-million of projects likely to be completed by 2016. Three major projects have been foremost on the University's estates agenda in this past year and all have made good progress.

The Bristol Life Sciences building moved into its construction phase and the tower cranes that have been erected on St Michael's Hill dominate the Bristol skyline. The £54-million development, which will provide new teaching facilities and research laboratories for Biological Sciences and a range of related disciplines, will take shape over the coming year, and is due for completion in late 2013. The associated landscape will open up new routes from the historic Royal Fort to St Michael's Hill and will provide a beautiful backdrop for a range of University buildings.

Renovation of the Queen's Road Building, to be renamed the Richmond Building, continued throughout the year. The building is home to the Students' Union as well as the University's swimming pool. When complete the 1960s landmark will be totally refurbished inside and out at a cost of £28 million. The pool area and new changing facilities, together with a brand new entrance and foyer, will open in January 2013 and new space for the International Foundation programme and the International Office will follow later that month. The renovation of Union facilities will then start in earnest with the revitalised Anson Rooms due to complete in October 2013 and a range of new studio, club and society spaces and an extended café bar to follow in 2014.

The third major project is a commitment to build 327 new student bedrooms adjacent to Hiatt Baker Hall in Stoke Bishop. The University has gained planning consent for this development, which will include a new public transport hub to serve the highly successful University bus service to the site. Demolition work has already started and the scheme will be completed in time for the 2014 intake.

All three projects have been designed to the highest environmental standards and should achieve the BREEAM Excellent status. The Richmond Building will feature a combined heat and power energy centre, with waste heat being used to warm the pool water. The new residences will have arrays of solar panels that should generate up to 20 per cent of the power requirement. The elevations of the Life Sciences Building will be constructed in part from stone recovered from the buildings that previously stood on the site.

Planning for the future

During the year, a range of estate investments were completed. Two new surgery facilities for the School of Veterinary Sciences were opened at Langford Campus, one for small animal treatment and one for equine acute care, the latter with funding contributions from the Alborada Trust and the Donkey Sanctuary. On the Precinct, a new £1.2-million centre for Cell Biology research and teaching opened in the Medical Science Building. Two Victorian villas on Priory Road have been fully renovated to provide high-quality accommodation for Social Sciences and Law students. Elsewhere, the renovation of existing halls of residences continued apace with the next phase of Churchill Hall and the full refurbishment of Manor Hall starting in summer 2012.

In addition to the Richmond Building and residential projects, enhanced capacity and improved facilities for our student body will
Reducing the University’s carbon footprint
In 2011/12 the University continued implementing an agreed £10-million worth of carbon-reducing projects including:

- installing LED lighting and controls, replacing boilers, heating controls, pumps and ventilation and loft insulation throughout the University;
- completing the voltage-optimisation project, which has reduced electricity use by an average of 6 per cent across the University;
- installing low-loss transformers at the Stoke Bishop halls of residence, which together with the refurbishments at Churchill hall and loft insulation/hot water measures at the electrically heated Badock hall, has contributed to a 9 per cent reduction in electricity for halls of residence.
- the part-refurbishment of the Drama department and Old Park hill has reduced gas consumption by 33 per cent and 42 per cent respectively and electricity by 9 per cent.
- in 2011/12 three solar installations came online, to bring the University’s total capacity to 169kW, with an output equivalent to the annual consumption of 46 average homes.

Setting the sustainability standard
The University’s commitment towards sustainability continued throughout 2011/12. It achieved re-certifications for the internationally regarded environmental standard ISO14001 and energy efficiency standard ISO16064. Bristol is one of only two Russell Group universities to have achieved ISO14001 and hopes to be the first this year to include its curriculum in that accreditation. These certifications reflect the University’s whole institution approach to sustainability and helped the University gain a first-class placing in the People and Planet Green League.

be provided by the creation of a range of social learning spaces in the Hawthorns at the heart of the campus, with similar new provision at Langford. The renovation of the Wills Memorial Library will continue the University’s rolling programme investment in its library provision and new facilities will be provided for Arts students in Woodland Road and Cotham House. Lecture theatres are being renovated and design work has commenced for a new 400-seat theatre in Priory Road. Additional studio and gymnasium space was created over the summer in both the precinct sports centre and at Langford.
Travelling in the right direction

The University’s free cycle surgery was highly commended in the West of England Travel Plan awards in October 2011. The surgery has been developed, in partnership with the student environmental society (BUSt), to offer free bike maintenance to cyclists and to transfer maintenance skills and knowledge. Now in its fourth year the surgery has two Mechanics, running 30 surgeries a year, and services 30 bicycles a session.

In June 2012 the University secured £330,000 from the Government to help implement staff and student sustainable travel initiatives as part of a regional West of England Sustainable Travel (WEST) bid.

In partnership with Wessex Connect and the University of the West of England, the University’s U6 bus service has been extremely popular during 2011/12, serving some 399,000 passengers throughout the year. There are plans to extend the route and frequency of the service in 2012/13.

Reducing waste

Student end-of-term reuse projects, including the Big Give project, saved five tonnes of reusable items from landfill benefitting 16 local charities and raising £30,000. A new reuse website Re-Store has helped to find new homes for 500 items of furniture within the University.

The University composted more than 250 tonnes of food waste from University sites, student halls of residences and catering outlets. This successfully diverted 10 per cent of the University’s waste from landfill.

In 2011/12 the University recycled more than 77 per cent of its office waste, up from 65 per cent last year.

Green learning

The Higher Education Academy’s Green Academy project, which began in 2010/11, has been extended in 2011/12 to include:

- mapping sustainability in all courses across the University;
- assisting departments in the teaching of sustainability;
- developing resources and training materials and setting out a future strategy.

The University also partnered the Bristol Student Hub – a student-led organisation helping ethical and environmental groups at the University – to provide training in sustainability skills, such as carbon and waste auditing, and to organise other learning opportunities. These included a ‘green’ version of Dragons’ Den and a series of talks, including one from environmentalist Jonathon Porritt. The University’s Green Impact Awards scheme – an accreditation scheme for environmental best practice based on more than 130 actions that help departments to reduce their negative impact on the environment – launched a hospital scheme piloted with the University Hospitals Bristol Trust. Next year the Green Impact Awards will be extended to other hospitals as well as to more than 50 universities in the UK.
Information technology and libraries

In August 2011 the University’s Information Services was replaced by two separate organisations: Library Services and IT Services. These two organisations continue to support the delivery of the University’s learning and teaching, and research and enterprise activities. Some of the achievements of both organisations are outlined below.

**The University’s priorities in this area are to:**
- provide IT and library facilities to support education, learning and teaching and to enhance the student experience;
- provide IT and library facilities to support research activities and enhance research impact;
- support the University’s business objectives by providing efficient and effective processes enabled by well-designed, integrated information systems;
- ensure that our IT Strategy is people-focused and that all members of the University are well supported, trained and equipped to fulfil their roles;
- provide excellent, responsive and resilient IT services for all members of the University;
- develop sustainable approaches to the provision of IT, in order to minimise the impact on the environment.

**Library services**
From its ten branches the University Library serves over 18,500 users, including academic staff, students and members of the wider research community. It offers a wide range of services, including the provision of printed and electronic information, lending services, a scanning service compliant with the Copyright Licensing Agency (CLA), inter-library loans and a variety of study spaces, as well as training and expert advice in finding and using information, and reciprocal borrowing schemes.

The Library’s key aims are to:
- provide a welcoming and accessible environment, with flexible spaces in which students can learn and interact;
- provide a wide range of published and unpublished material, including sufficient copies of, or access to, all items on student reading lists;
- manage physical, digital and staff resources in a consultative and cost-effective way.

**A welcoming and accessible environment**
The refurbishment of the first and second floors of the Arts and Social Sciences Library was completed over the summer of 2011. Student feedback about the remodelled library has been extremely positive, and use of the library has increased dramatically.

In the spring of 2012, the Library introduced a significant increase to opening hours at seven branch libraries, including the introduction of 24/7 opening at the Arts and Social Sciences Library during the summer term revision period, which included the Easter holiday and Bank holidays. At the other branches, weekend and evening opening hours were extended.

The design phase of the Wills Memorial Library refurbishment was completed in the spring of 2012, after consultation with academic staff and students whose feedback was incorporated into the design. The contractor Bray & Slaughter was appointed, and preparatory work began in June 2012. The refurbishment will be completed in two phases: the first, which began in summer 2012, will last until February 2013; the second will take place in summer 2013.

**Learning resources**
Significant increases in the Library’s book budget between 2009/10 and 2011/12 have brought the Library’s book expenditure into line with other Russell Group universities, and by the end of this academic year, £600,000 will have been spent on books.

The eReserves scanning service was rolled out in 78 subject areas (164 units) in the Arts, Social Sciences and Science faculties. The service provides scanned book chapters to students via Blackboard and has been used by 6,471 students. Academic staff and student feedback has been very positive, and the 2011 National Student Survey (NSS) scores for library services and resources improved in all of the subject areas which benefited from the service.

**Efficiency and cost effectiveness**
Initiatives to improve the efficiency and effectiveness of the service have included the merger of the Dental Library with the Medical Library, and the further roll out of ‘shelf-ready books’ in which book suppliers, rather than Library staff, carry out the processing of purchased items.
To address the issue of journal-price inflation, the Library participated in an initiative of Russell Group librarians that aimed to convince publishers to reduce their prices. Negotiations with two of the largest publishers whose subscriptions were due for renewal in January 2012 were concluded satisfactorily, and journal cancellations were avoided.

**IT Services**

In August 2011 a separate IT Services organisation was launched with the aim of improving the efficiency of the University’s IT processes and to reduce inefficient IT procurement and duplication of effort in developing IT solutions. IT Services is now a smaller, more focused organisation, managed centrally while maintaining local provision through geographical, zonal teams. Common policy, standards and operational processes are being defined, supported by the introduction of Service Level Agreements and a central Service Desk to handle all IT related requests.

**Support for education, learning and teaching**

IT Services is introducing a new email and calendar service for the University provided by Google. Google provides an easy-to-use email system, which is accessible anywhere, and has substantially increased storage space. Around 11,000 students are already using the student email-for-life service, and a staff pilot service is underway.

To support the growing use of mobile devices the wireless network has been extended to cover study bedrooms in student accommodation. The University has also worked with Bristol City Council to provide access to the eduroam service in council libraries and public areas, and has launched a mobile support website bristol.ac.uk/it-services/mobile to help students and staff access University services via their smartphones and tablets.

A new Technology Enhanced Learning Strategy has been approved, which will lead to further enhancements to services such as MyBristol portal, the Blackboard online learning environment and social learning spaces for students.

**Enabling research**

BlueCrystal, the University’s High Performance Computing (HPC) facility, continues to support research and teaching across the University. The University, in collaboration with e-Infrastructure South partners, was awarded £3.8 million from EPSRC to create the Centre for Innovation regional HPC facility. BluePeta, the Research Data Storage Facility, provides for secure, resilient long-term storage of research data.

IT Services is also working to establish a research data repository service, data.bris.ac.uk, which builds on the investment already made in research data. The service is being piloted within the Faculty of Arts with the aim of extending the model across the University. It is also implementing Atira Pure to provide a new repository for research outputs and staff CVs. This system will be critically important in assembling the University’s response to the next Research Excellence Framework (REF).

A number of projects led by IT Services’ research and development group illustrate how the University is meeting its commitment to enable easy, anytime, anywhere access to research materials. These include:

- the University of Bristol Collections as Linked Open Data (BRICOLAGE) project, which will make catalogue information for two of the University’s most significant collections – the Penguin Archive, a comprehensive collection of the publisher’s papers and books; and the Geology Museum, a 100,000-specimen collection housing many unique and irreplaceable resources – accessible for presentation online;
- PlantTracker, a smartphone app for the Environment Agency and NERC Centre for Ecology & Hydrology, which helps crowd-source the distribution of three particularly invasive, non-native species: Japanese Knotweed, Himalayan Balsam and Floating Pennywort.

**Developing business processes**

In 2011/12 a total of 13 systems projects were completed, including a new timetabling system and timesheet system for research projects. A further 18 projects are still in progress, including new coursebooking and e-recruitment systems for HR, new systems for the Theatre Collection, a new estates-management system and an online booking system for sports facilities.
Alumni distinctions and honorary degrees

Bristol alumni are an exceptional group of individuals. We highlight some of those whose contributions were recognised by external organisations in 2011/12:

**Professor Desmond Smith OBE** (BSc 1952, DSc 1966) was awarded the Royal Medal from the Royal Society of Edinburgh.

**Professor Kenneth Morgan** (BSc 1966, PhD 1969) became a Fellow of the Learned Society of Wales in 2011.

**Dr David Milne OBE** (MSc 1967, PhD 1969, Honorary DEng 2007) was awarded the Royal Medal from the Royal Society of Edinburgh.

**Stephen Howard Davies** (Cert 1968) collected the Olivier Award for Best Director for his production of *The White Guard*.

**Guy Fetherstonhaugh QC** (BSc 1977) became an Honorary Member of the Royal Institute of Chartered Surveyors in 2011.

**Jacqui Molyneux** (BSc 1979, BVSc 1981) was invested as the New President of the Royal College of Veterinary Surgeons in July 2012.

**Professor Sir Mark Welland** (MSc 1981, PhD 1984) was awarded the ‘Office of the Secretary of Defence Medal for Exceptional Public Service’ by the US Department of Defence, and the ‘The NNSA Gold Medal’ for ‘outstanding leadership and wise counsel as Chief Scientific Advisor to the United Kingdom’ by the US Department of Energy.

**Michelle McDowell** (BSc 1984) won the title of Veuve Clicquot Business Woman of the Year 2011.

**Stephen Howard Davies** (Cert 1968) collected the Olivier Award for Best Director for his production of *The White Guard*.

**Kate Adie OBE** Journalist, correspondent, author and presenter; former reporter at BBC Bristol, Doctor of Laws.

**Professor Mary Beard** Professor of Classics at the University of Cambridge; TV presenter and author, Doctor of Letters.

**Professor Graham Fleming** (BSc 1971) Distinguished physical chemist; Vice-Chancellor for Research at the University of California, Berkeley, Doctor of Science.

**Peter Hargreaves and Stephen Lansdown** Co-founders of financial advisers Hargreaves Lansdown, Doctor of Laws.

**Graham Harrison** Partnership Director of SETsquared; former Director of International Business at the South West of England Regional Development Agency, Doctor of Engineering.

**Alastair Sawday** Bristol-based publisher; Chair of the Green Capital Partnership, Doctor of Letters.

**Dr Julie Wright** (Cert 1975, MLLT 1978, PhD 1983) Theatre director; Director of the Wapping Project, Doctor of Letters.

**Angela Yeoman OBE** Non-executive director of Aggregate Industries; long-standing contributor to the community and charities in Somerset, Doctor of Laws.

Every year, the University awards its own distinctions. Below we list all those who received **honorary degrees** from Bristol in 2011/12 in recognition of outstanding achievement.

**Kate Adie OBE** Journalist, correspondent, author and presenter; former reporter at BBC Bristol, Doctor of Laws.

**Professor David Harvey** Leading geographer and one of the world’s most influential social scientists; former member of staff at the University of Bristol, Doctor of Science.


**Sir Stephen Laws** (LLB 1972) Former First Parliamentary Counsel, Doctor of Laws.

**Michelle McDowell MBE** (BSc 1984) Chair of the Building Design Partnership; award-winning civil engineer, Doctor of Engineering.

**Derek Pretty** Former Registrar and Secretary at the University of Bristol, Doctor of Laws.

**Professor Ray Priest** (BEd 1978) Principal of the City Academy, Doctor of Laws.

**Professor Sidney Ricketts** (BSc 1968, BVSc 1971) World-leading equine veterinary practitioner; lecturer at University of Bristol, Doctor of Science.

**Maxine Room CBE** (Ed 1979, MEd 1993) Principal of Lewisham College, Doctor of Laws.

**Alastair Sawday** Bristol-based publisher; Chair of the Green Capital Partnership, Doctor of Letters.

**Tim Stevenson** Former company director; former member of the University’s Council, Doctor of Laws.

**Dame Clare Tickell** (Cert 1986) Chief Executive of Action for Children, Doctor of Laws.

**Michael Winterbottom** (Cert 1983) Film director, Doctor of Letters.

**Dr Julie Wright** (Cert 1975, MLLT 1978, PhD 1983) Theatre director; Director of the Wapping Project, Doctor of Letters.
Philanthropy

Gifts to the University enable our researchers to address some of the world’s most important questions and help to enrich and support the experience we provide for our students during their time at Bristol. In 2011/12, a record 7,200 alumni and friends, staff and students, companies and charities contributed to Bristol. We thank each and every one of them, and list Bristol Pioneers here.

2011/12 Bristol Pioneers

£25,000+
Mr Richard M Campbell-Breeden (BSc 1984)
Mrs Samantha Campbell-Breeden (BSc 1984)
Dr John M Davis (BSc 1965)
Mr W Raymond S Hill (BSc 1934)
Mrs Kate Holmes (BSc 1981)
Mr Roger A Holmes (BSc 1981)
Dr Bhikhu C Patel (BSc 1993, Diploma 1995, Honorary LLB 2000)
Mr Andrew R Thomhill QC
Mrs Helen M Thomhill (Livingston) (LLB 1968)
Mr Alexander S Wilmot-Sitwell (BA 1983)

£5,000-£24,999
Dr John M H Andrews (BSc 1989, PhD 1973)
Mrs Linda J Andrews (Barber) (BA 1971)
Mr Simon D J Beddow (LLB 1968)
Mr Andrew E J Burton (BA 1988)
Mrs Anna-Marie Burston (Professor David Clarke)
Mr John E Coverdale (BSc 1977)
Dr A Peter Cox (BSc 1973)
Mr W Raymond S Hill (BSc 1934)
Dr John M H Andrews (BSc 1989, PhD 1973)

£1,000-£4,999
Mr Marc Abbey (Emanuel 1986)
Mr Simon T Aird (BSc 1993)
Mr Abdul H M H R Al Damaki (BA 1967)
Mrs Nicole J Alkouf (Ronson) (BA 1994)
Mrs Murat A Dalgic (BA 1979)
Dr David M J Atwood (BSoc 2008)
Dr Gerald Avison (BSoc 1962, PhD 1967)
Mr Allan Aw (BSc 1971)
Mr Gavin Bacon (LLB 1979)
Dr Adebola O Badia (MB ChB 1969)
Mr Richard J M Baker (BSoc 1983)
Ms Henrietta C Baldock (BSoc 1979)
Dr Celia E Bangham (MB ChB 1977)
Dr Armita Basak
Mrs Shyamali Basak
Mr John S M Beckwith-Smith (BSoc 1969)
Mr Mike Bedingfield (LLB 1996, LLM 1997)
Ms Monica R Bhogal (Patel) (LLB 1996, Diploma 1997)
Dr Gerald F Bigwood (MB ChB 1947)
Dame Carol Mary Black (Herbert) (BA 1962, MB ChB 1970, MD 1975, Honorary DSc 2003)
Mr Graham H Blyth (BSoc 1969)
Lady Booteng (Agyem)
The Lord Booteng (LLB 1973, Honorary LLD 2007)
Mr Alex S Brooks (BSoc 1998)
Ms Aileen Brownfield (BSoc 1984)
Dr Susan M Budge CBE (Adam)
(BSc 1971)
Mr Denis A S Burn (BSoc 1975)
Mr James Bundal (BA 1967)
Dr Jennifer I Burston (Lewis) (MB ChB 1962)
Mr Michael N Bussell (BSoc 1966)
Mrs Alison M Bye (Hill) (BA 1967)
Mr Peter G Bye (Scoc 1965)
Ms Jane A Carr DBE (Linkage) (BA 1973)
Professor Nishan Canagarajah
Mrs Lorraine M Casson
Mr Norman S D Casson (LLB 1968)
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Dr A Peter Cox (BSc 1973)
Mr W Raymond S Hill (BSc 1934)
Mr Peter K Estlin (BSc 1982)
Mr Steven L J Everett (BSc 1963)
Mrs Elinor Goldsmith (Dr Stuart A Goldsmith)
(BA 1969, Honorary LLB 2007)
Mr Mark D Greaves (BA 1984)
Harriet’s Trust
Professor Lucy A Henny (BSc 1986)
Mr Tim Harrington (LLB 1975)
Mr Anthony Hitchcliffe (MB ChB 1960, ChM 1971)
Mr John C Jenkins
Dr Ian J E Keil (BA 1955, PhD 1965)
Mrs Teresa Keil
Ely Jacques Khan III
Mr Anthony H W Luckhurst (BSc 1974, MSc 1975)
Mr Charles D Z Martin (LLB 1993)
Mr Alastair J M Martin (BSc 1983)
Ms Leslie G Silverstone (Jackson) (BA 1968)
Mr Nigel W Wray (BSoc 1970, Honorary LLD 2005)
Mr Nigel W Wray (BSoc 1970, Honorary LLD 2005)
Philanthropy continued

Dr Stephen P Goodwin (BSc 1979, PhD 1985)
Mrs Christine D Gorman (Wilson) (BA 1956)
Mr Michael J Gorman (BA 1960)
Mr Alan Gourley (LLB 1983)
Professor Tim J Grant (LLB 1969)
Mr Colin H Green CBE (BSc 1971, Honorary DEng 1997)
Mr Dominic R M Griffiths (BA 1994)
Dr George C Hack (BSc 1965)
Mr Adam C Hale (BSc 1987)
Mr Colin H Hall (LLB 1968)
Mr Daniel C J Hall (LLB 1984, honorary LLD 2010)
Mr Colin h Green CBe (BSc 1971, Cert ed 1972)
Mrs Patricia P Matthews (Simms) (BSc 1981)
Mr Ian J Maurice (BSc 1973)
Mr Daniel H R McCaustland (BA 1992)
Mr Mark W Mead (BEng 1988)
Mr Nigel S Mercer (MB ChB 1990, CHM 1994)
Mr Anthony D Metcalfe (BSc 1985)
Mr Andrew M Miller (LLB 1970)
Mr Andrew B Miligan (BSc 1979)
Mr Anthony S Minns (MB ChB 1969)
Mr Ferrier O Moeren (BSc 1994)
Mrs Dinah A Moore (Cartwright) (BA 1971)
Mr John R Moore (MBCh 1987)
Dr Janet E M Mordue (MB ChB 1960)
Mr David J Morgan (BSc 1985)
Mr David S Morgan (BA 1964)
Mr Thomas E Morrissey (MEng 2001)
Mr Thomas D Morton (BSc 1995)
Mrs Emma L Murray (Speight) (BA 1996)
Mr Thomas J Murray (BA 1995)
Mr Robert N Myers (BSc 1979)
Mr Adam A Naberebacquissi (BSc 2002, MB ChB 2005)
Dr Dominic Newcomb (BSc 1994)
Mrs Jayne Nickalls (Mentz) (BSc 1993)
Professor A Guy Ockey
Dr Mary-Clare Parker (Bromage) (MB ChB 1986)
Mr Steven Parker
Mr Bhupendra Patel
Mrs Harshita Patel
Mr Matthew D Paulson (BSc 2005, MSc 2007, PhD 2011)
Mr Andrew Paynter (BSc 1986)
Mrs Margaret R Peacock
Mr David R Phillips (LLB 1999)
Mr John Phillips (Birleith) (BSc 1980)
Dr Christopher D O Pickard (BSc 1994, MSc 1996, PhD 2000)
Mr Nicholas J Pike (BSc 1984)
Miss Maxine J Platman (LLB 1982)
Professor Charles E Polkey (BSc 1960, MB ChB 1963)
Mrs Maureen A Polkey (Beverstock) (BSc 1960, Cert ed 1961)
Mrs Jennifer A Price (BSc 1970)
Mr Jonathan D Punter (DPh 1978)
Mrs Julie C Punter (Stableford) (BSc 1960, Cert ed 1961)
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As a member of the GB hockey team, [student] went on to win a bronze medal. Students Georgie Twigg (BA 2012) and Teaching Fellow Shirley Hume are carrying the flame for the delivery of top-quality medical and surgical treatments for both large and small animal patients. The University of Bristol Theatre Collection celebrates 21 years of trilling success. The University’s Botanic Garden stands out in the 2011/2012 RHS Guide. Children of the 90s kicks off. Hundreds of people gathered in Bristol for a conference to discuss the remarkable scientific discoveries the Children of the 90s study at the University have made over the past 20 years. The study is a landmark in the field of human health and well-being and has influenced research and policies across the world.

Royal visit to Langford. Her Royal Highness The Duchess of Cornwall, on behalf of the Prince of Wales, officially opened two new facilities at the School of Animal Health and Welfare, officially named the St George building. The building is named in recognition of the support given by the Friends of the School. The Duchess was also invited to MBF. Brain for Christmas: Professor Bruce Hood, Director of the Bristol Intellectual Developmental Disabilites Research Centre, delivered the Bristol Cognitive Development Centre’s inaugural Christmas lecture. The lecture was also broadcast on BBC Four.

Year of the Dragon kicks off. Bristol students from China have kick started a range of performances and events at the RSC in association with their £250,000 grant for the Chinese New Year of the Dragon. The University’s Children’s Centre staged a world premiere of the musical ‘Unfurl Thornton as its first Artist in Residence. The University also celebrates 21 years of trilling success. The University’s Botanic Garden stands out in the 2011/2012 RHS Guide. Children of the 90s kicks off. Hundreds of people gathered in Bristol for a conference to discuss the remarkable scientific discoveries the Children of the 90s study at the University have made over the past 20 years. The study is a landmark in the field of human health and well-being and has influenced research and policies across the world.

June: Suit gives music a hand. Bristol physicists and philosophers were part of a panel to discuss the question ‘Is there a future for the music of the future?’ Keynote speaker was noted philosopher and author of Theodore: A Scientific Study in Performance and Culture, Professor Eric Thomas. Performance piece. Applied music music with hand gestures. Musician part of a team who developed a ‘musical suit’ that allows the wearer to manipulate the universe.

July: Higgs boson revealed? Bristol physicists working at the Large Hadron Collider in Switzerland have confirmed the existence of the Higgs boson, a long-sought piece of the puzzle of elementary particles. A part of the Standard Model of physics, the Higgs boson was predicted by Peter Higgs, and in 1964 colleagues Abdus Salam and Steven Weinberg. The discovery is the culmination of 21 years of experiments at CERN. The research was the direct result of the observation of thousands of particle collisions. Analysis of the data was based on statistical tests to determine which signals are genuine and which are due to background processes.
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