



THE UNIVERSITY *of* EDINBURGH
Annual Review 2012/2013

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“The most rewarding aspect of working within a university environment is the sense that the activities we undertake – across all disciplines – have the potential to influence and change things for the better. At the heart of what we do sit our students and staff yet, increasingly, they are not the only beneficiaries of the knowledge and appetite for discovery that we have within our community.”

Professor Sir Timothy O'Shea,

Principal and Vice Chancellor, the University of Edinburgh

Our vision

To recruit and develop the world's most promising students and most outstanding staff and be a truly global university benefiting society as a whole.

Our mission

The mission of our University is the creation, dissemination and curation of knowledge.

As a world-leading centre of academic excellence we aim to:

- enhance our position as one of the world's leading research and teaching universities and to measure our performance against the highest international standards
- provide the highest quality learning and teaching environment for the greater wellbeing of our students and deliver an outstanding educational portfolio
- produce graduates fully equipped to achieve the highest personal and professional standards
- make a significant, sustainable and socially responsible contribution to Scotland, the UK and the world, promoting health, economic growth and cultural wellbeing.





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Principal's foreword

If universities are to be measured by the extent to which they excel in innovation and education, then the past year has been an exceptional one for the University of Edinburgh.



The sector in which we operate is constantly facing change and challenge, yet our core mission of creating, disseminating and curating knowledge remains the same and we continue to push back boundaries in this endeavour. These achievements are thanks to the effort and dedication of our students and staff, our supporters and friends.

The most rewarding aspect of working within a university environment is the sense that the activities we undertake – across all disciplines – have the potential to influence and change things for the better. At the heart of what we do sit our students and staff yet, increasingly, they are not the only beneficiaries of the knowledge and appetite for discovery that we have within our community.

It was while I was on a visit to Stanford University in California in 2012 that I was struck by the capability that universities have in this regard. Their programme of online courses – open to all regardless of background and qualifications – was transforming the way people thought about higher education in the US and I realised we needed to offer a similar platform in Europe. That is why in January 2013, the University of Edinburgh became the first UK university to offer MOOCs – Massive Open Online Courses. I am proud to say that these free, openly accessible programmes have been a great success and have allowed access to our institution for a whole new audience around the world.

MOOCs, which we focus on in more detail in this edition of the *Annual Review*, are the latest chapter in the University's long and distinguished history of sharing knowledge and understanding in new and pioneering ways. The quality of the experience that we are able to provide for the students who choose to learn with us is critical and, in a highly competitive marketplace, we are constantly striving to deliver not only excellent teaching but also excellent career prospects.

On those themes, we also feature this year our advancements with initiatives such as Innovative Learning Week, which encourages imaginative approaches to learning, and the partnerships we are creating with employers for our postgraduate students to help prepare them for life after study. When opting to study at Edinburgh, students are

buying into an institution that has developed its reputation over hundreds of years and I am pleased to report that as that "brand" grows, so does the potential for success. There is no better example of that than Edinburgh College of Art (ECA) which merged with the University in 2011. Over the past year ECA has enjoyed a clutch of hugely impressive accolades from BAFTAs to Gold Awards at Graduate Fashion Week, gaining the respect and interest of leading professionals across the arts.

Edinburgh has always been an international university and from this we derive immense benefit. Because of our truly global outlook we attract the finest staff and students from around the world and we can offer in turn a vibrant, diverse and multicultural environment in which to learn and discover. Just as importantly, our international outreach allows us to develop academic partnerships abroad, through which we can study and offer solutions to some of the major problems facing us today – such as climate change and poverty. These partnerships have already seen us create our Global Academies to focus on health, international development and the environment and in 2013, we launched a fourth, the Global Justice Academy, the work of which we feature in detail in this publication.

Over the centuries we have gained renown for the research that is carried out at our University – research across medicine, science and the humanities and social sciences. This is not activity that is carried out in ivory towers – quite the reverse. There is a history and tradition at Edinburgh of sharing, debating and applying our research and that has resulted in some cases in giant leaps in our understanding of the world around us. Elsewhere in this year's *Review* you can read about the project we have led on which is bringing new hope to stroke sufferers around the world, and the research by an interdisciplinary team of academics that could result in radical changes to the treatment of cancer. The community contribution that research can make is highlighted in the fascinating story of how colleagues from our School of Informatics helped to bring superfast broadband to unconnected parts of the Scottish Highlands.

On the subject of our track record in research, the magnificent achievement of our colleague, Professor Peter Higgs is worthy of particular mention. The entire University community was delighted to learn in 2013 that he had been awarded a Nobel Prize in Physics, recognising his outstanding contribution to the theoretical work that led to the prediction of the Higgs boson particle. Professor Higgs had to wait almost 50 years before his visionary theory could be proved, a theory that has now completely opened up our understanding of some of the fundamental principles of the universe. He is the perfect manifestation of our ethos as a university and a shining beacon of scientific excellence, and personal modesty, who will inspire staff and students for generations to come.

Professor Sir Timothy O'Shea
BSc, PhD, FRSE

Education for everyone: broadening the appeal of higher education

In January 2013 the University of Edinburgh became the first university in the UK to offer Massive Open Online Courses (MOOCs).

The University's Vice Principal Knowledge Management, Professor Jeff Haywood, believes the development of MOOCs is a step change for the University.

"MOOCs are helping us to find new ways to design courses and to teach them, especially at large scale, which will help to transform our on-campus and online education," he explains. "They give us a great opportunity to extend our community outreach, and to ensure that the University of Edinburgh is more meaningful for more people around the world."

The University has long been committed to developing and investing in online learning. This mode has directly increased the number of learners from socially and economically challenging backgrounds, as well as from overseas. Through its Distance Education Initiative the University offers 50 online masters degrees, with the expectation to expand enrolment to 10,000 students in the next few years, equalling that of on-campus postgraduate teaching.

MOOCs differ significantly from online degrees in that they require no application process, prerequisite qualifications or fee but, just as with traditional online learning at Edinburgh, they offer access to world-leading academic teaching.

The University's Dr Jo-Anne Murray, Senior Lecturer in Animal Nutrition and Husbandry, and one of the academics involved in teaching the first round of MOOCs, says: "MOOCs complement degree programmes by allowing people to take a free course in a subject and decide if that's really what they want to study for their degree."

At five to seven weeks in duration, requiring input from students of between two and four hours a week, the courses are time-friendly. They also take full advantage of the latest developments in online video, slideshows, forums, quizzes and social interaction.

Each of the University's three academic Colleges offered two MOOCs in 2013: *Introduction to Philosophy*; *E-learning and Digital Cultures*; *Equine Nutrition*; *Critical Thinking in Global Challenges*; *Artificial Intelligence Planning*; and *Astrobiology and the Search for Life on Other Planets*. More than

309,000 learners signed up for these subjects, and as well as the UK, came from all over the world including Australia, Brazil, Canada, the Czech Republic, Germany, Greece, India, Russia, Spain, and the US.

The University's Dr Siân Bayne, based in Moray House School of Education, is an early adopter of online learning, and has also been involved in teaching the first set of MOOCs. Having taught the *E-Learning and Digital Cultures* MOOC, she sees many advantages.

The Edinburgh MOOC teams have been accepting offers to speak at events all over the UK, Europe and the US. Feedback has been excellent; people are really receptive and interested to learn about what we've achieved.

"We were one of the first universities in the UK to commit to MOOCs so it has been a priority for us to share what we know with the rest of the sector," she explains. "We've been doing research on our MOOCs and openly publishing our user statistics, and the Edinburgh MOOC teams have been accepting offers to speak at events all over the UK, Europe and the US. Feedback has been excellent; people are really receptive and interested to learn about what we've achieved."

Dr Murray agrees that the experience has been a positive one. "I greatly enjoyed running the *Equine Nutrition* MOOC and it has raised my profile across the University and in the equine nutrition sector world-wide," she explains. "I feel I have really learned how to engage with people from a variety of academic backgrounds."

MOOCs have brought advantages to current on-campus students too. The University's postgraduate students were encouraged to get involved as Teaching Assistants (TAs) and found it gave them an opportunity to add new, IT-based, supervisory skills to their CVs.

Joan Kulifay, a postgraduate student at the University, contacted Dr Murray, to volunteer as a TA on the *Equine Nutrition* MOOC. "Having studied MOOCs myself, I knew as a student that one of the biggest problems was lack of feedback and comments, so I wanted to participate and address this," Ms Kulifay explains. "I was prepared for the depth and breadth of questions that we experienced."

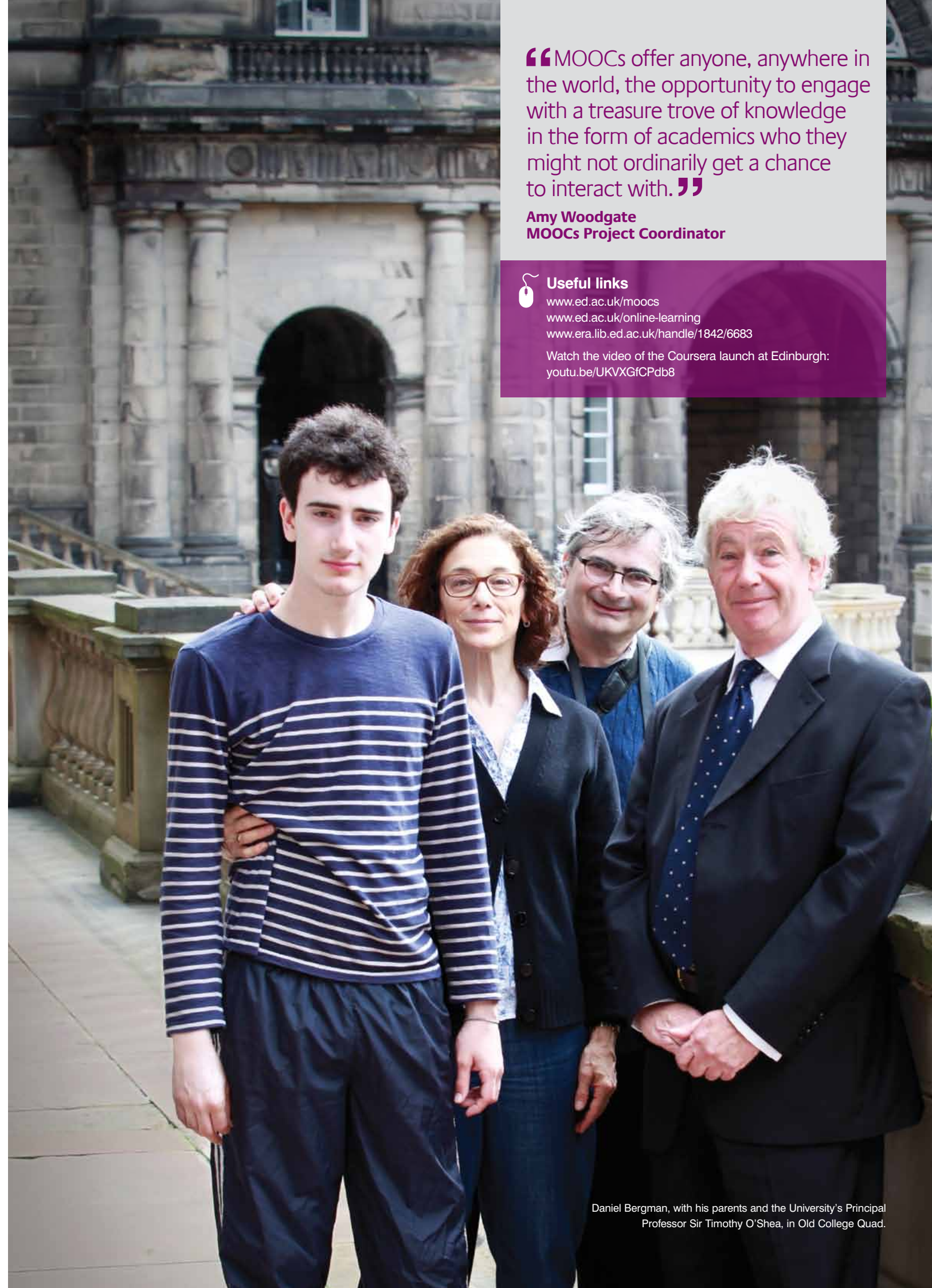
Recognising the differences between online and traditional classroom-based learning, Ms Kulifay adds: "The video design, designing the teaching pages and exams, and participating in forums can make it time consuming to develop and service a MOOC but it's a rich learning experience."

Perhaps the greatest advantage of MOOCs however, is their ecumenical nature. As MOOCs Project Coordinator Amy Woodgate explains: "MOOCs offer anyone, anywhere in the world, the opportunity to engage with a treasure trove of knowledge in the form of academics who they might not ordinarily get a chance to interact with."

This was brought home to the MOOCs teams by the actions of Daniel Bergman, a severely autistic 17-year-old from New York, for whom learning in a traditional classroom setting is extremely challenging. He undertook the *Philosophy and Critical Thinking* MOOC and, so enthused by his experience, he undertook to visit the University with his parents in the summer of 2013, so that he could meet and thank the people behind the online course.

"MOOCs initially enabled my parents to teach me things they did not know," Mr Bergman says. "But the real treasure for me has been the real-time contact with my professors and online interaction with other students."

MOOCs continue to develop. Professor Haywood estimates that by the end of 2014 Edinburgh will be running 24 MOOCs across a wide range of subject areas allowing the University to offer even more to learners around the globe.



“MOOCs offer anyone, anywhere in the world, the opportunity to engage with a treasure trove of knowledge in the form of academics who they might not ordinarily get a chance to interact with.”

Amy Woodgate
MOOCs Project Coordinator



Useful links

www.ed.ac.uk/moocs
www.ed.ac.uk/online-learning
www.era.lib.ed.ac.uk/handle/1842/6683

Watch the video of the Coursera launch at Edinburgh:
youtu.be/UKVXGfCPdb8

Daniel Bergman, with his parents and the University's Principal Professor Sir Timothy O'Shea, in Old College Quad.

“When you tell anyone in the fashion industry you studied at ECA they now immediately recognise it.”

Lauren Smith
ECA Fashion Graduate and Gold Award winner
at Graduate Fashion Week



Useful links

www.ed.ac.uk/eca

Watch the video of Will Anderson and Ainslie Henderson winning the BAFTA and being interviewed back stage by Zoe Ball.
youtu.be/mt-27tShCug



Lauren Smith (centre) accepting her Gold Award at Graduate Fashion Week.

Winners at Edinburgh College of Art: leading the way in the arts industry

In February 2013 Will Anderson and Ainslie Henderson took to the stage of London's Royal Opera House to accept a BAFTA for their film *The Making of Longbird*.

With matching kilts and smiles, the first thanks they offered were not to an individual, but to an institution. "I'd like to say a big thank you to Edinburgh College of Art, where this film was made," said Mr Anderson, clutching the award for best short animation. Several months later their victory remains "pretty surreal", but the sentiment remains the same: "I couldn't have done it without ECA," he says.

Since the film debuted at ECA's degree show in 2011 it has won awards at more than 20 film festivals around the world. Mr Anderson ascribes his BAFTA and subsequent commercial success (he has since created adverts for the TV Licence and won backing from Creative Scotland) to the flexibility ECA offered him.

"It's not a film school, it's an art school, and at art school you have much more freedom. That's what makes ECA stand out: their attention to helping you find your voice, their real attention to story."

The story of ECA in recent years is similar to Mr Anderson's. In the past 12 months students, recent graduates and staff have amassed an extraordinary collection of awards and recognition.

June 2013 saw fourth-year fashion student Lauren Smith hailed a rising star by the *New York Times* and *Vogue* magazine. Ms Smith had just won the Gold Award at Graduate Fashion Week, the top prize at the world's biggest showcase of emerging fashion talent. Ms Smith was not alone: ECA students swept the boards. Shauni Douglas and Olivia Creber won the best menswear award and Morwenna Darwell was runner-up in the textile category.

"We are the ones to watch," says Ms Smith. Since winning the £20,000 prize, she has designed a collection for George, the in-house label of retailer Asda, and worked with Swiss chocolatiers Lindt.

"When you tell anyone in the fashion industry you studied at ECA they now immediately recognise it. They know to expect something unusual from an ECA student," she says.

"Every student is allowed to be different. It means there is no 'ECA look', but ironically that is its look. If you can't see a school's stamp on it, it means it must be from ECA."

Owen Normand graduated from ECA in 2008. He now lives in Berlin. Last year he painted a portrait of his girlfriend sitting in her bedroom, the light throwing stark, dramatic shadows across her downturned face. In June 2013 this image, *Das Berliner Zimmer*, helped Mr Normand win the BP Young Artist Award, one of the world's most prestigious prizes for portraiture.

It's a project we're passionate about at ECA, so to be told by professionals that we are doing a good job has added a lot of vitality to the project. To get an award for how we teach is pretty special.

Like Will Anderson and Lauren Smith, Mr Normand sees a direct link between his time in Edinburgh and his success. "ECA exposed me to new ideas and art from which I still take inspiration," he explains. "Taking weekly life-drawing classes for four years really helped me to develop as a figurative artist. Illustration taught me about narrative in images, working to briefs, and problem-solving, all of which I was able to apply to my painting."

In February 2013 the *Guardian* University Awards recognised an ECA project as the best in the UK at preparing students for work in a difficult employment market.

The Design Agency Project in ECA began in earnest five years ago. At the start of each academic year, groups of students form their own agencies. Every graphic design undergraduate is involved, from fourth-years taking on the role of creative directors through to first-years positioned as interns. Designers from professional agencies mentor the students, who hire, fire, pitch, design and operate like a real agency. The results have been hugely satisfying for Zoe Patterson, Director of Undergraduate Studies in the School of Design.

"All our students are 100 per cent employable," she says. The *Guardian* University Awards panel agreed, awarding the project first prize in the Employability Initiative category.

"It's a project we're passionate about at ECA," says Ms Patterson. "To be told by professionals that we are doing a good job has added a lot of vitality to the project. To get an award for how we teach is pretty special."

Elsewhere in ECA, Edinburgh School of Architecture and Landscape Architecture lecturers, Liam Ross and Tolulope Onabolu were invited to take part in the 2013 Venice International Architectural Biennale, one of the foremost gatherings of architects.

Dr Angela Dimitrakaki, Senior Lecturer in Contemporary Art History and Theory, curated *Economy*, a critically acclaimed exhibition split between the Centre for Contemporary Art in Glasgow and the Stills Gallery in Edinburgh. Exploring how economic relations define us, it was widely praised.

Lecturer Dee Isaacs was awarded the Principal's Medal for the impact her Music in the Community programme has on her students, and the communities they work with. Fuelled by the belief that art and music can change and empower, Ms Isaacs, who has run the programme for 13 years, has enabled her students to work with school pupils in Scotland and rural Gambia. The growth in a child's confidence that comes with learning to sing, or play a musical instrument, has a great impact, not only on the children but their parents too. Like every other discipline within ECA, the merger between the College and the University has provided new opportunities.

"We have great potential to reach out across the institution and beyond," says Ms Isaacs. "Looking towards other art forms as partners in social engagement is a wonderful opportunity, which will no doubt create broader and more sustainable collaborative partnerships in the future."

Cancer patients set to benefit: developing treatments by interdisciplinary research

An interdisciplinary team of University academics is advancing research that could result in radical changes to the treatment of cancer.

The Implantable Microsystems for Personalised Anti-Cancer Therapy (IMPACT) project is developing an implant roughly the size of a grain of rice, that is designed to target, track, and help to destroy cancer cells in tumours.

IMPACT is a five-year, £5.2m project, which has been backed by a grant from the Engineering and Physical Sciences Research Council (EPSRC). It officially started at the University in May 2013, aiming to begin clinical trials in three years, and a marketable product by approximately 2018.

Central to the project is the creation of wireless sensor chips, produced by the Scottish Microelectronics Centre, based in the University's School of Engineering. These silicon chips will be implanted into patients' tumours to locate and target radiotherapy, to treat cancer cells at the optimum time and place. Understanding the behaviour of cells in solid cancers was a key starting point for the project.

Professor Alan Murray, the School of Engineering's project lead, explains: "Cancerous cells in tumours survive in microenvironments – cluster of normal cells, molecules and blood vessels. The blood supply of a tumour is chaotic and when it develops rapidly it can outgrow its oxygen supplies."

The oxygen-starved cancer cells that result from this, are still deadly, but are resistant to both radio- and chemotherapy. In addition these areas of cells in the body can change and move, making them more difficult to 'hit' in treatment.

IMPACT's miniature sensors will identify the treatment-resistant tumour regions and relay the information to a radiotherapist. Appropriate doses of radiotherapy would then be 'fired' at the most stubborn cancer cells to cause maximum damage. The sensors would be able to measure, not just oxygen levels, but more detailed biomarkers that indicate the status of the tumour and the success of the precisely localised radiotherapy. Professor Murray believes the implications for treatment are profound.

"We'll be able to offer personalised therapy for a particular tumour biology in a particular person at a particular time – and that's exciting," he says. "It means that if your tumour indicates 8pm on a Tuesday is when it's most vulnerable to radiotherapy, that's when you should be getting your radiotherapy, not at 4pm on a Thursday when you have a booked appointment. If it's as successful as we want it to be, it will issue a big challenge to the management of radiotherapy and how it's delivered."

The development would make therapy "very dynamic", he says. "Not only will we choose the time and the place according to what the sensors tell us, we'll be able to administer a dose of radiotherapy, then power down the radiotherapy machine, interrogate the sensors to measure the level of cancer-cell kill, and then repeat until we're satisfied that session has been as successful as it could be."

We'll be able to offer personalised therapy for a particular tumour biology in a particular person at a particular time – and that's exciting.

The potential clinical use of IMPACT has been carefully weighed from the outset. Professor Ian Kunkler of the Edinburgh Cancer Centre is a central figure in the cross-disciplinary team, who agrees that the project's proposal for highly targeted doses of radiotherapy could mean a complete rethink of patients' treatment regimes – and potentially lead to future improvements in cancer survival rates.

"Currently we give the same dose of radiation to the cancer each day during a course of radiotherapy over several weeks," Professor Kunkler explains. "IMPACT could enable us to adapt the total dose and distribution of dose on a daily basis. This would be a great advance in personalised medicine."

Although the core of IMPACT's research challenge is in engineering and chemistry, its driving force is medical. Professor Murray believes the reason a project of such breadth was funded is testament both to its scientific quality and the ethos of the University.

"Edinburgh is quite unusual in having a structure that means there are absolutely no significant institutional barriers to collaborating across Colleges and Schools," says Professor Murray. "It's very easy to put together a proposal relevant to a wide number of our Schools, because we're in an environment where interdisciplinary working is encouraged by the University's mission. We can do this and very few other universities can. We have all the components for putting it together and strong encouragement from senior management to do exactly this kind of thing. So we don't work in isolated bunkers."

Alongside Professor Murray, Professor Anthony Walton, Dr Stewart Smith, Dr Brian Flynn and Dr Martin Reekie represent the School of Engineering in the IMPACT team. IMPACT also includes the School of Chemistry's Professor Mark Bradley and Professor Andy Mount, the Royal (Dick) School of Veterinary Studies' Professor David Argyle and the Clinical Research Imaging Centre's Professor Edwin Van Beek. Professor Joyce Tait and Dr Gill Haddow of the ESRC Centre for Social and Economic Research on Innovation in Genomics (INNOGEN) join them. Alongside Professor Kunkler, the NHS and medical field is represented by clinical oncologist Dr Duncan McLaren and oncology physicist Dr Bill Nailon.

Professor Murray believes research funding, particularly within EPSRC, is becoming more receptive to the multidisciplinary approaches that emerge at an academic level and is hopeful of long-term funding for the project.

"We would like to develop IMPACT to track moving tumours and administer chemotherapy, as well as radiotherapy. Ultimately this is all about improving the rate of cancer cure – that's what we want to achieve."

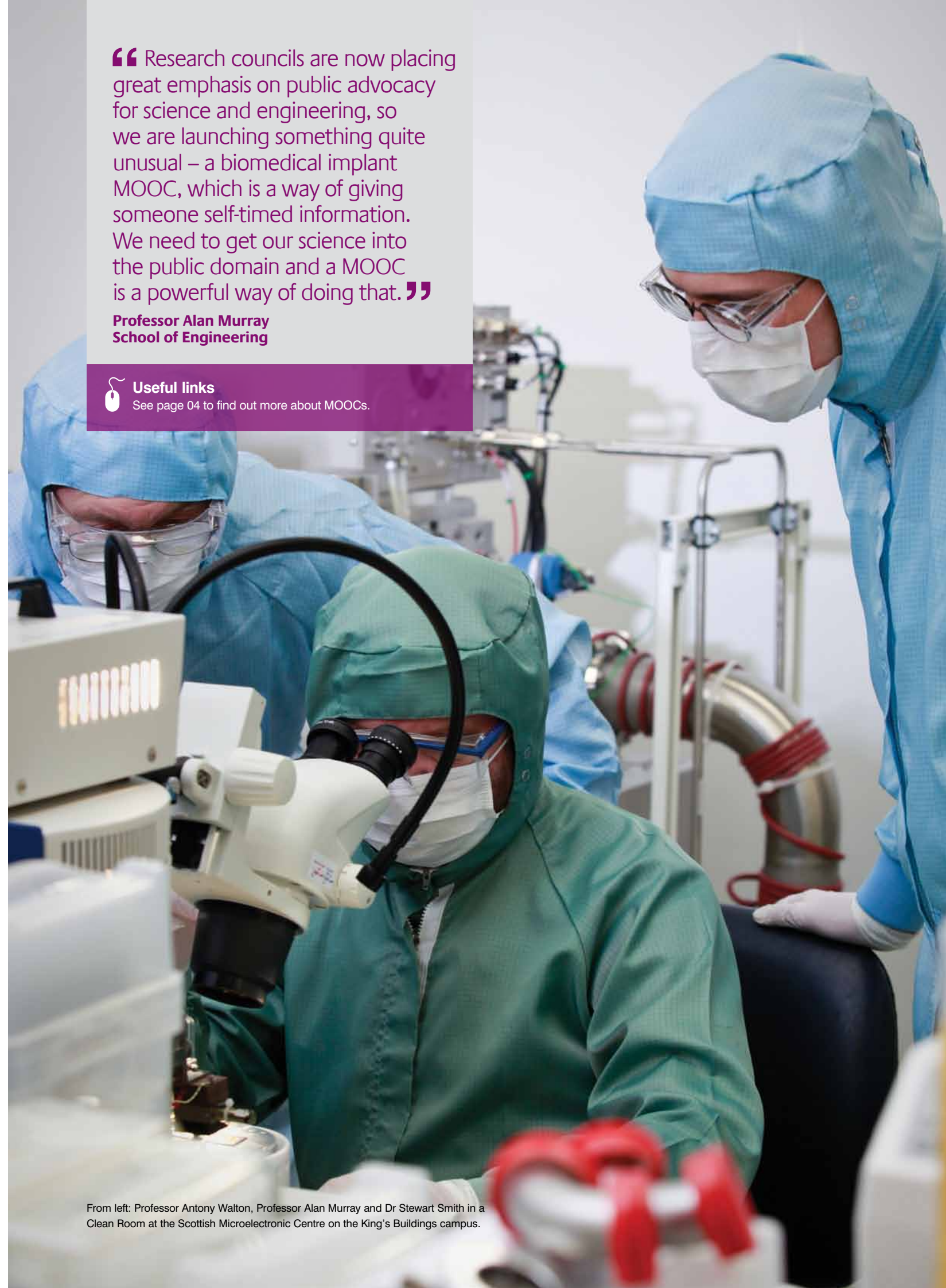
“ Research councils are now placing great emphasis on public advocacy for science and engineering, so we are launching something quite unusual – a biomedical implant MOOC, which is a way of giving someone self-timed information. We need to get our science into the public domain and a MOOC is a powerful way of doing that. ”

Professor Alan Murray
School of Engineering



Useful links

See page 04 to find out more about MOOCs.



From left: Professor Antony Walton, Professor Alan Murray and Dr Stewart Smith in a Clean Room at the Scottish Microelectronic Centre on the King's Buildings campus.

“Employers are very grateful because it has made it easier for them to engage with the University. Building those relationships has been a breakthrough.”

Diane Gill
Making the Most of Masters Coordinator

Useful links

www.mastersprojects.ac.uk

www.ed.ac.uk/schools-departments/careers/looking-for-work/internships/employed-on-campus



Graduates of the MSc Advanced Sustainable Design, enjoying the exhibition of their work at the Out of the Blue Arts and Education Trust.

Students add to their academic skills: enhancing career opportunities

The University has a long-held commitment to preparing its students for the transition from education to employment – and the past year has seen a range of new activities to support this.

One project, backed by the Scottish Funding Council and conducted in partnership with the universities of Aberdeen and St. Andrews, aims to increase collaboration between employers and universities by providing workplace experiences for postgraduates. The Making the Most of Masters project at Edinburgh encompassed everything from theatre performance to geosciences.

Within the University's Advanced Sustainable Design postgraduate degree, where students learn how to design environmentally responsive spaces, under the auspices of Making the Most of Masters, this year students undertook the Leith Interventions project, working with local residents to identify potential uses for buildings and landscape on sites in the Leith area of Edinburgh. Through dialogue and creative design work the students produced fresh visions for a more sustainable Leith.

One student, Elena Pana, explains: “The aim was to create an area that really welcomes non-Leith residents and locals alike. We suggested landscape reclamation that revitalised the river and we designed a winding, soft-edge path to try to give walkers the opportunity to be closer to nature.”

Engagement with local people was fundamental to Ms Pana's MSc experience. “When proposing a project like this it is essential to be in touch with stakeholders and try to understand the needs of the specific area we are dealing with,” she says. During the year the students ran workshops to brief community groups about their work proposals. The work experience culminated with an exhibition of the designs at the capital's Out of the Blue Arts and Education Trust.

John Brennan, Head of Edinburgh School of Architecture and Landscape Architecture, says the interaction with the local neighbourhood was liberating for his students: “The great thing about this programme is that their experience as students is going out dealing with people living and working in the city. The communication skills they gain help their academic experience and get to the heart of what sustainable design is all about.”

Diane Gill, who managed the Edinburgh Making the Most of Masters' projects from 2011 to 2013, believes Leith Interventions is a good example of how the project works.

“The initial idea was to provide opportunities for taught postgraduates to do work-based dissertations,” she explains. “But the scope became much broader when we realised the many different ways of engaging with outside organisations, and the positive influence this can have on employability.”

For the companies it was about introducing themselves and describing the type of skills they were looking for.

Part of the appeal of the Making the Most of Masters initiative was the ease with which it transferred across different disciplines. Ms Gill cites the Theatre Performance MSc, which established internships at venues including the Royal Lyceum in Edinburgh and Oran Mor in Glasgow, as an example of this flexibility. “The students involved talked about going from a purely academic environment to suddenly interacting with 13–16 year olds, and they really got a lot out of that,” she says.

Discussion between academics, students and potential employers is a vital element of the programme. A ‘Dissertation Mixer’ was organised for the School of GeoSciences, bringing together students, academics and companies. “For the companies it was about introducing themselves and describing the type of skills they were looking for. For academics it was a chance to articulate the kind of student they were looking to supervise,” says Ms Gill. “It was a very effective networking event.”

Ms Gill believes the programme is already having an impact on student employability. “Employers are very grateful because it has made it easier for them to engage with the University. Building those relationships has been a breakthrough.”

Alongside Making the Most of Masters, the University has created a number of its own initiatives that signal its commitment to graduate employability.

Employ.ed on Campus is one such initiative that supports undergraduates looking to gain valuable paid work experience over the summer. In 2013 interns were recruited to work across 20 University departments as part of the scheme. The University's Careers Service provided a programme of support, bringing participants together for a number of events throughout the summer, and provided a framework to develop their employability goals.

One student to take part in Employ.ed on Campus Emma Smith, now in her fifth year of a Fine Art MA, worked as an Exhibitions Intern at the University's Centre for Research Collections. Ms Smith felt the experience had many benefits. “I was able to get to know the University's Collections on an unprecedented level and it was exactly the sort of work I could see myself doing in the future,” she says. “It really was an invaluable experience.”

The project will soon be expanded by the Careers Service, to include Employ.ed in an SME, an initiative focusing on small and medium-sized enterprises, and Employ.ed Overseas, due to be piloted in summer 2014. Jenni Dixon, Internships Coordinator in the Careers Service, explains how Employ.ed Overseas will work: “The intention is to place a number of students on summer internships with organisations outside the UK who have a connection to the University, whether that be via alumni, partnerships or previous recruitment of our students. This will provide our students with fantastic international work experience.”

The University's commitment to student employability is ongoing, and has received national recognition, in the shape of a *Times Higher Education* 2013 award for Outstanding Employer Engagement Initiative. Vice Principal Learning and Teaching, Dr Sue Rigby comments: “It is an honour to receive this award, and an appropriate recognition for the hard work and expertise shown by our teams, and from our network of employers.”

These opportunities to gain experience in the workplace, as part of a degree programme, continue to help our graduates stand out in the global employment market.

A new Global Justice Academy: strengthening international networks

Reflecting the University's ongoing commitment to internationalisation, in 2013 it launched the Global Justice Academy, to explore global justice issues, bring people, centres and networks together, and to develop research that reflects global justice concerns.

The Global Justice Academy complements the University's Global Health Academy, combatting global health challenges; its Global Development Academy, harnessing international development teaching, research and partnerships; and its Global Environment and Society Academy, responding to global environmental challenges.

The need for this newest academy was clear, as its Director and Professor of Constitutional Law, Christine Bell, explains: "It is not always apparent what justice is or how to achieve it, and law appears to work within countries rather than globally. But there are structural justice issues that we can all see and recognise. We don't always have the answers, and these problems require multidisciplinary solutions. So we needed a mutual forum where we can identify broad themes and begin to address them."

These themes cover a vast range of areas, from urban justice and the use of cities, to organised crime and regional responses to it, and the role of human rights in times of conflict. The Academy will address what makes a good constitution; whether bankers or government should make economic decisions; issues of human security and citizenship; and social and distributive justice as it seeks to provide an intellectual framework to aid a better understanding of global issues.

"We offer a platform where people can get out of their disciplinary boxes and think about a *global* justice as opposed to just, for example, criminal justice or justice within a particular set of borders," says Professor Bell.

This platform has already enabled the University, in 2013, to host the inaugural meeting of the Global Citizenship Commission, addressed by education activist Malala Yousafzai and led by former Prime Minister Gordon Brown, to re-examine the 1948 Universal Declaration of Human Rights.

While the Academy brings together academics from a wide range of subject areas across the University – and beyond – there are direct benefits for Edinburgh Law School. Head of School Professor

Lesley McAra, who is a key advocate of the Academy, states: "As well as the applied research under way, there's a pedagogical element to the Academy. In developing grounded solutions to global problems we are able to expand our teaching and evolve our postgraduate programmes accordingly."

That a Global Justice Academy has been created in Edinburgh is particularly resonant. The city plays host to the highest civil and criminal courts in Scotland, as well as the administrative source of Scottish legislature. These factors combine to offer law students unique outreach opportunities.

In developing grounded solutions to global problems we are able to expand our teaching and evolve our postgraduate programmes accordingly.

The Law School's Senior Teaching Fellow Rebecca MacKenzie, who last year won the Principal's Medal for her outstanding contribution to the School and the wider community, has been pivotal in creating some of these opportunities in her role as Pro Bono Coordinator. The School's evolving portfolio of pro bono services includes the Free Legal Advice Centre (FLAC) and the Child Advocacy Project.

FLAC, run by students completing either their Diploma in Professional Legal Practice or a masters' degree programme, is a service for members of the public. Supervised by volunteer solicitors, students give advice on a wide range of issues including family and child law, debt management and landlord/tenant disputes, and work closely with external organisations including Shelter Scotland, the Citizen's Advice Bureau, Edinburgh & Lothian Regional Equality Council, Scottish Women's Aid and Victim Support Scotland.

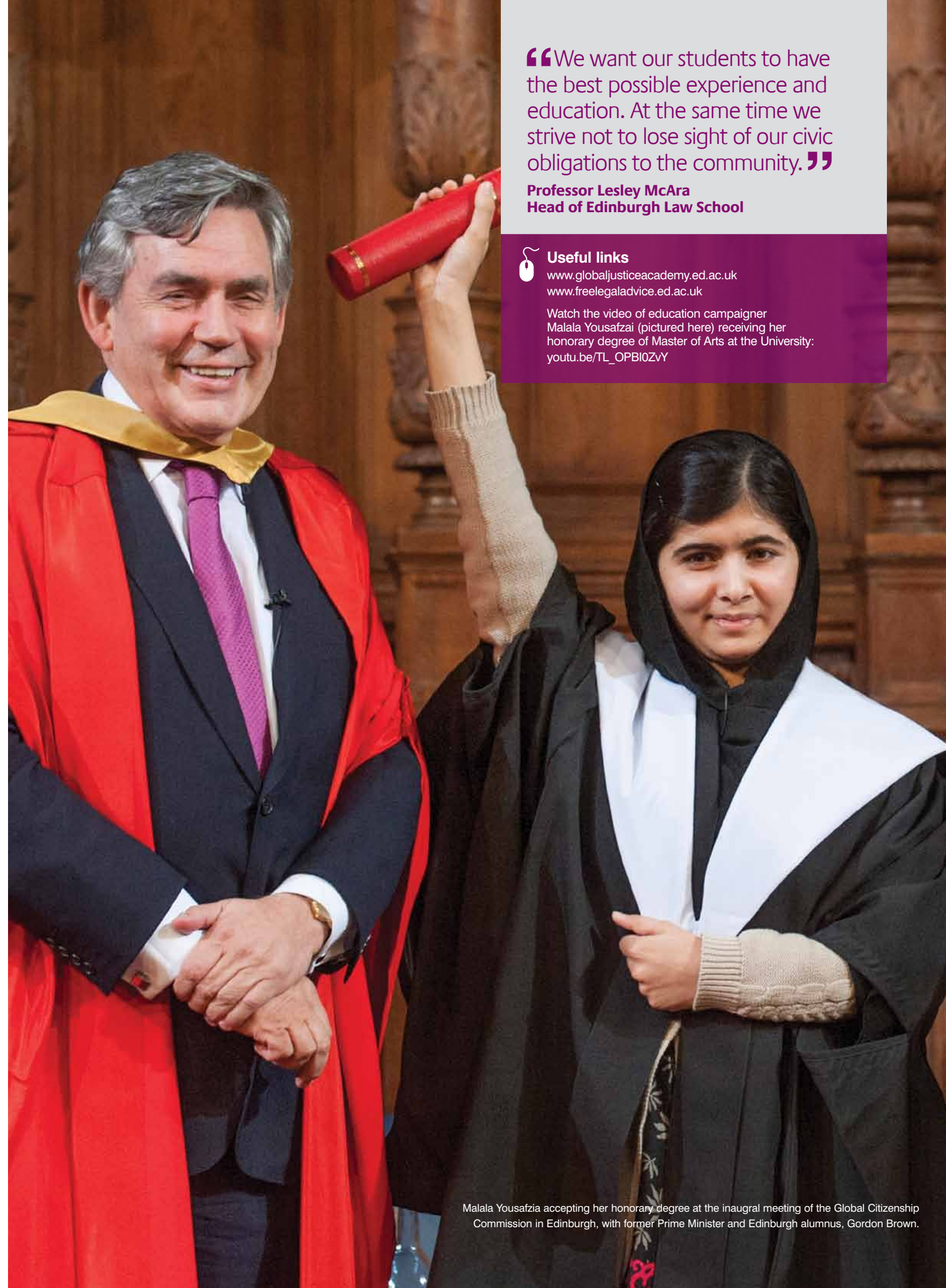
Ms MacKenzie explains: "This provides students with a great opportunity to get involved with the community and, because qualified solicitors oversee everything, their connections with the profession are strengthened. Internship opportunities can arise and their employability is greatly increased."

Graduate Alan Innes, now a trainee solicitor working in commercial property, advised a client on the financial implications of divorce while completing his Diploma in 2012–13. Mr Innes says: "It was very useful to have the opportunity to interview a real client and it gave me more confidence about meeting clients in practice. Researching an area I had not chosen to specialise in was particularly beneficial as it broadened the versatility needed as a lawyer."

Another former student, Lottie Flood, who took on a contract law case with a complicated background of defamation and harassment, comments: "It was valuable to learn how to manage a case, involving research and communication within strict deadlines." Ms Flood, also now a trainee solicitor, adds: "I'm actively looking for opportunities to be involved in pro bono work and, once qualified, I intend to offer assistance to FLAC myself."

The Child Advocacy Project, which works in conjunction with the Scottish Child Law Centre (SCLC), offers graduate LLB students the opportunity to take on real-life cases, supporting children caught up in family conflicts. Students are trained by the SCLC and Law School staff to listen to children in vulnerable situations and again benefit from being supervised by – and making connections with – qualified solicitors.

Edinburgh's historic status as a civic university makes current community engagement all the more significant. As Professor McAra points out: "The University is a force for social good and social transformation and has the resources to make changes for the better, improving lives outside the University, and influencing policy development in terms of services and support for the local community as well as internationally. We want our students to have the best possible experience and education. At the same time we strive not to lose sight of our civic obligations to the community in which we are located. We view global justice as beginning at home."



“We want our students to have the best possible experience and education. At the same time we strive not to lose sight of our civic obligations to the community.”

Professor Lesley McAra
Head of Edinburgh Law School

Useful links

www.globaljusticeacademy.ed.ac.uk
www.freelegaladvice.ed.ac.uk

Watch the video of education campaigner Malala Yousafzai (pictured here) receiving her honorary degree of Master of Arts at the University: youtu.be/TL_OPBIOZvY

Malala Yousafzai accepting her honorary degree at the inaugural meeting of the Global Citizenship Commission in Edinburgh, with former Prime Minister and Edinburgh alumnus, Gordon Brown.

“The MRC provided one of the main building blocks, which was the staff here in Edinburgh working on the trial.”

Professor Peter Sandercock
Honorary Consultant Neurologist



Useful links

Watch the video: youtu.be/H-JFqVUhXOE

A breakthrough for stroke victims: leading worldwide research

In May 2013 the results of the world's largest trial of a stroke-treatment drug brought new hope for sufferers around the globe.

Led by the University's Professor Peter Sandercock, the 11-year project, involving more than 3,000 patients, found that stroke sufferers are more likely to experience a long-lasting recovery if treated with a clot-busting drug, called rt-PA.

The study of the effects of rt-PA found that, 18 months on from being treated, more stroke survivors were able to look after themselves independently. The research was designed by, conceived and led from Edinburgh. Peter Sandercock, Professor of Medical Neurology and Honorary Consultant Neurologist in the University's Division of Clinical Neurosciences, has focused on the epidemiology, treatment and prevention of stroke for the past four decades.

“When a person suffers a stroke, an artery in the brain is blocked and the part of the brain that artery supplies stops working,” he explains. “It results in loss of speech, loss of vision and paralysis down one side of the body. If the artery is reopened with a drug, the clot causing the blockage can be dissolved and the disability can be markedly reduced or the patient can recover completely.”

The drug rt-PA was first tested in the early 1990s, with a small trial of just 600 patients conducted in America, followed by further similar-sized trials in Europe and elsewhere. These studies concluded that the drug was promising.

Professor Sandercock's research sought to assess a much larger pool of patients than previous studies, and to test the balance of risk and benefit in extending the drug treatment to the wider population, including people in their 80s and 90s.

“There are 15 million strokes a year worldwide and we felt you couldn't base global treatment policy on the results of just a few hundred patients in clinical trials,” he explains.

Funding was secured in 1999 and patients began to be recruited the following year. Recruitment was completed by 2011, with 3,000 stroke patients from 12 countries taking part. Half were treated with intravenous rt-PA and half were not.

“The novel thing about this study was that we wanted to produce results that were of the greatest general relevance,” says Professor Sandercock.

“The trials that had been going on until then had chosen very carefully selected patients, almost all of whom were aged less than 80. We wanted a trial that was of wider relevance that also included older people, because about a third of all strokes are in people aged over 80,” he explains.

The novel thing about this study was that we wanted to produce results that were of the greatest general relevance.

The results demonstrated that a wider spectrum of people benefit from the drug and, crucially, that treatment needs to be administered rapidly. “If you do that, for every 1,000 people you treat, within the first three hours of the stroke, irrespective of age, 90 more will be alive and independent as a result of treatment. That's a really big effect.”

Previous studies had produced very limited evidence as to whether the benefit of treatment with rt-PA endured, with patient follow-up ending after only three months, but the University's research was able to show that the reduction in disability persisted for at least 18 months. Professor Sandercock comments: “When we asked people at 18 months were patients able to do things independently, could they walk without help, did they have any major problems in their everyday living, those people who had had treatment 18 months previously reported significantly better health-related quality of life. So again that was a first, showing benefit on things that matter to people in their everyday lives.”

Professor Sandercock summarises the findings about the treatment simply: “Benefit in a wider group of patients, benefit for older patients and benefit that lasts.”

The study, supported by the Medical Research Council, the Stroke Association UK, the Health Foundation UK, the National Institute for Health Research Stroke Research Network and NHS Lothian Health Board, is testament to the University's ability to attract funding partnerships that can contribute to life-changing scientific discoveries. “The MRC provided one of the main building blocks, which was the staff here in Edinburgh working on the trial,” says Professor Sandercock, who champions the invaluable contributions of his colleagues, including Professor Joanna Wardlaw, who handled all the brain imaging studies that are the key part of the research, as well as Professor Martin Dennis, and Dr William Whiteley.

Professor Sandercock believes the research will have a societal as well as a medical impact, raising awareness of strokes, boosting confidence to use the treatment more widely, and reinforcing efforts to close the gap in time between a stroke occurring and arriving at hospital for treatment.

“People need to know what the symptoms of a stroke are,” he explains. “If your face drops, if your speech is suddenly affected, if there's weakness in your arm or leg, you must act quickly and get yourself to hospital. We also need to make sure that we gear up hospital systems so that patients who arrive with suspected strokes are treated promptly, given that treatment has to be given ideally within an hour of arrival at hospital.”

“Ultimately I would like to see more stroke units opening around the world so that more stroke patients can be treated – and Edinburgh has certainly played a significant part in identifying treatments that are important in acute stroke care.”

Community support in the Scottish Highlands: enabling broadband through innovation

The University's School of Informatics has helped to solve a growing problem in an outlying region of Scotland.

What began in 2007 as a research project, called Tegola, for the School's Professor Peter Buneman, Dr Giacomo Bernardi and Dr Mahesh Marina evolved over several years into a community endeavour that resulted in bringing superfast broadband to an otherwise 'unconnected' part of the Scottish Highlands.

In October 2012 an event on the Hebridean island of Skye was held to celebrate Tegola's significant milestones, which brought together those researchers involved in the project, from the Universities of Edinburgh and the Highlands and Islands, local government and the communities involved.

The project corresponds with the ambitions of the Scottish Government. Cabinet Secretary for Infrastructure, Investment and Cities Nicola Sturgeon stated: "Broadband should not be considered a luxury in places like the Highlands and Islands. It is essential to enhance the quality of life of communities and to stimulate the growth of the local economy."

The advent of superfast broadband has had a significant impact on businesses, organisations, education and home consumers alike and, with average broadband speeds doubling every 20 months or so, there is an ever-growing range of commerce and communication dependent on high-speed internet access. Much of rural Scotland is without high-quality web access. Many communities are too far from a telephone exchange for high-speed broadband to work and satellite broadband has been shown to be slow and expensive.

Professor Buneman and Drs Marina and Bernardi's initial research was concerned with the delivery of low-cost, reliable and high-speed broadband in rural areas. They focused on one of the most remote parts of Scotland, the area around Loch Hour, which takes in the villages of Corran and Arnisdale, as well as some of the most inaccessible parts of Knoydart. They erected a wireless link from Corran to the broadband connection of an accommodating resident on Skye and established the feasibility of long-distance wireless broadband in the area. However, that connection was not fast enough to support a whole community.

The involvement of the University of the Highlands and Islands was crucial. Their collaboration enabled access to the Joint Academic Network (JANET), an educational internet network, which allowed the remote communities access to a more powerful broadband connection through the Gaelic College Sabhal Mòr Ostaig on Skye.

There remained a problem of distance between this more powerful server at the College, and the location of rural residents. Professor Buneman explains: "We built relays, through which the wireless broadband could be distributed. These were required to be built along 'lines of sight' so that each relay could transmit the internet connection to the next."

In areas where coverage for other forms of communication such as landlines, televisions and mobiles are poor, people rapidly become dependent on their internet connection

"It was at this point that we realised the importance of community involvement in the project," he says. Relays were required to be built across challenging highland terrain, and the whole community got involved in their construction.

One local farmer in Knoydart, Iain Wilson, describes how the project continues to work in practice: "We put up all the relay masts ourselves initially," he says. "And now, occasionally they send me something up from Edinburgh and we go up and rearrange the box up there on the mountain, and we test it and report back."

The project has brought broadband to more than 1,000 homes throughout 12 communities of rural Scotland so far, and new community projects are starting up almost every month.

On the island of Eigg, where various attempts had been made to bring broadband to locals via satellite connections, with an unwavering lack of success, one resident, Simon Helliwell, approached the Tegola project for advice, whereupon equipment was made

available and a test link quickly erected. The success of this test resulted in the creation of the HebNet initiative, based on the Tegola template, which now sees the Small Isles of Eigg, Rum, Muck and Canna receiving speeds between 30 and 50 megabits per second, far in excess of what is generally available in most cities.

As Professor Buneman points out, "in areas where coverage for other forms of communication such as landlines, televisions and mobiles is poor, people rapidly become dependent on their internet connection and reliability is as important as speed".

The project has been recognised by the Royal Society of Edinburgh, and in 2011 received the Nextgen Challenge Award for Community broadband. It has brought new businesses and residents into the area it serves and has improved the efficiencies of existing businesses such as Marine Harvest Scotland, which has supported the project. Tegola now serves as a testbed for High-Speed Universal Broadband for Scotland (HUBS), a new joint enterprise by the Universities of Edinburgh, the Highlands and Islands and Stirling, funded by the Carnegie University Trust, which provides infrastructure and technical expertise to rural communities.

Edinburgh's School of Informatics has a rich history of innovation. Its research projects have impacted on millions of people around the globe, many of whom remain unaware of the origins of, for example, the first automated industrial assembly robots, now used in production lines the world over, or the first miniature digital camera, used by the majority of us everyday, both of which emerged from the School's commitment to innovative research.

Tegola has already proved its potential to join these innovations in touching, and more importantly improving, the lives of millions. The technology used to provide low-cost, high-speed, reliable broadband to Scotland's most challenging territories can be used anywhere in the world. As HebNet's Simon Helliwell says, "without good broadband people these days are effectively disenfranchised and unempowered but what we've achieved here is replicable anywhere."

“Broadband should not be considered a luxury in places like the Highlands and Islands. It is essential to enhance the quality of life of communities and to stimulate the growth of the local economy.”

Nicola Sturgeon
Cabinet Secretary



Useful links

www.tegola.org.uk
www.ed.ac.uk/schools-departments/informatics/

View the School's research-in-a-nutshell videos here:
www.ed.ac.uk/research/nutshell-videos

“Innovative Learning Week provides a marvellous opportunity for students to enhance their skills and for teachers to explore new ways of facilitating learning.”

Alison Treacy
Innovative Learning Week Coordinator



Useful links

www.ed.ac.uk/innovative-learning

Watch the video of students who took part in Innovative Learning Week 2013:
edin.ac/187TH4K

Innovative Learning Week: opening new doors to learning

A teaching initiative that encourages imaginative approaches to learning is proving to be an enriching experience for the University's students and staff.

Innovative Learning Week – a key component of Edinburgh's ongoing commitment to quality teaching – enables students to widen their academic horizons, learn new study skills and prepare for the world of work.

For five days in February 2013, regular timetables were put on hold and replaced with a lively mix of more than 200 creative learning events across the University. Instead of attending lectures, labs and tutorials, students took study options not open to them at other times. Through this atypical learning, they had time to reflect on their academic skills and think about the attributes that might help them compete in the jobs market.

The University's Vice Principal Learning and Teaching, Dr Sue Rigby believes that Innovative Learning Week can help to make studying at Edinburgh a more rounded experience.

“We can learn so much by stepping outside of our comfort zone,” says Dr Rigby. “Students, quite understandably, are focused on gaining their degree, but Innovative Learning Week gives them an opportunity to take risks and make some unexpected discoveries.”

Among other things, students studied Uruguayan poetry, took up Syriac for beginners, created their own entry for a soapbox car race, weighed up the cultural significance of vampires, and discovered the mathematics behind magic tricks. Others left the classroom behind, honing their engineering skills at a steam railway, joining a community project to design a school playground, undertaking a philosophical walking tour of Edinburgh, and enjoying a Japanese tea ceremony at the National Museum of Scotland.

There were also visits during the week, from Edinburgh alumna and former Head of M15 Stella Rimington, who talked about her career. Former star of reality television show *The Apprentice*, Margaret Mountford presented students with tips on how to land their dream job.

Students played a leading role too. Edinburgh University Student's Association (EUSA) – which already acknowledges classroom innovation through its annual Teaching Awards – ran a series of popular TEDx events.

TEDx is an interactive platform for exchanging ideas that has become a global phenomenon in recent years. Edinburgh students showed their appetite for TEDx when the EUSA events sold out in 15 minutes. EUSA ran an inspiring series of talks on the theme of Global Challenges, Grounded Solutions, tackling a range of issues, including happiness, homelessness and marathon running.

Our activities were deliberately structured as learning opportunities, rather than taught exercises. There is no substitute for seeing the detail that you have designed fail unexpectedly, or for realising that a design simply cannot be built.

The response to TEDx suggests an appetite among students for inventive ways of learning; staff too have been enthusiastic about the benefits of new approaches.

Edinburgh College of Art's Director of Externality, Robert Gillan helped to organise a successful life-drawing event called Best in Show. Local dog owners brought their pets to the College's Sculpture Court to pose for drawings. Students from a range of disciplines as well as local school pupils and interested members of the wider public took part. Mr Gillan was thrilled by the cross-collaboration that Best in Show encouraged and by the event's inclusive approach.

“The event helped open our doors to the wider community,” he says. “The place was buzzing and, by focusing on a subject matter that most people can connect with, we showed that everybody can draw if they have the chance to participate in something that's engaging and fun.”

The University's Dr Martin Gillie, based in the School of Engineering, found that Innovative Learning Week helped students of science-based subjects develop their practical skills. The week saw his students challenged to build bridges with a four-metre span, capable of carrying a one-tonne load, on a budget of £150.

“Ensuring that real-world engineering skills are part of the modern degree programme is a constant challenge,” he says. “If left unchecked, the creative and practical aspects of the discipline rapidly become formal and prescribed.”

“Our activities were deliberately structured as learning opportunities, rather than taught exercises. There is no substitute for seeing the detail that you have designed fail unexpectedly, or for realising that a design simply cannot be built.”

For Social Anthropology lecturer Dr Jamie Cross, time out from regular classes offered fresh perspectives. He and his colleagues organised Anthropology in 100 Objects – an online exhibition that prompted a welcome exchange of ideas between staff and students. Participants were invited to nominate objects that they felt represented their interest in anthropology. Responses ranged from the exquisite – a display of rare butterflies from Madagascar – to the everyday – a Coca-Cola can from Istanbul.

“People were keen to get involved,” says Dr Cross. “By the end of the process, everyone felt a real sense of ownership.”

“The exhibition enabled our students to make links between the content of their courses and the material world. All the objects were nominated anonymously, so people had fun guessing who had donated what. It really helped students to connect with their teachers.”

Innovative Learning Week Coordinator Alison Treacy says the initiative demonstrates what can be achieved when motivated staff, students and partner organisations work together. “The quality and breadth of events has been inspiring,” she says. “Innovative Learning Week provides a marvellous opportunity for students to enhance their skills and for teachers to explore new ways of facilitating learning.”


We are the University of Edinburgh: what it means to be a part of our community

The University employs 12,722 members of staff and hosts 32,868 students. Here are a few of their stories.



Corrie Scott is British Universities breaststroke champion and will be swimming in the 2014 Commonwealth Games. She is in her third year of an MChem Chemistry undergraduate degree.

"I was drawn to Edinburgh because it has such a great swimming programme. Combining my degree with swimming is quite busy but I've been very well supported in making sure I can balance my commitment to swimming with my academic work. I'd encourage any student interested in sport to come to Edinburgh. When I got here I was instantly training with the best in Scotland and I've improved massively. It's been awesome."




Harsh Vaidya is a research student completing his PhD in Stem Cell Biology at the University's Centre for Regenerative Medicine.

"There's a lot of help available at Edinburgh if someone wants to pursue a career in industry or start their own business. When I finish my PhD I plan to get a job in industry, maybe a pharmaceutical company – not in R&D but more in business development. I think I'd be pretty competitive because employers also look for what you do alongside your qualification, and I can demonstrate skills from business and finance workshops I've done here."




Kathleen Hood is the University's Head of Widening Participation (WP).

"We're incredibly fortunate at Edinburgh. We have great support for our work in widening participation from a huge number of colleagues across the University's support groups and in its Colleges. The success of our WP initiatives depends on true team work."




Martin Lam is in his second year of an MA (Hons) Sociology and Psychology undergraduate degree.

"There are lots of layers of support at Edinburgh. There's always someone you can go to who understands how things work and how the University operates as well as what's expected of you as a student at every point of your studies."




Jenny Fagan has recently joined the University as Writer-in-Residence, a post that sits within the School of Literatures, Languages & Cultures' English Literature department but serves the entire University community by seeking to forge links with the city of Edinburgh and beyond.

"I enjoy writing on location and getting access to places that may not normally be open to the public. And Edinburgh is a city rich in inspiration, so I'm sure I'll find ways to keep things interesting. It's an amazing opportunity."




Tim Pemberton is a Lloyds Scholar in his second year of an MA (Hons) Philosophy and Italian undergraduate degree.

"The financial support I've received at Edinburgh is incomparable with what any other top university in the UK is offering. The support the University has given me and the help through the Lloyds Scholarship mean I don't have to get a job while I'm studying, which is a real bonus. Being able to support myself is one of the real advantages that Edinburgh offers. The great thing about being a Lloyds Scholar is the volunteering involved. We volunteer on a weekly basis within a specific community – we've done nature walks, visited a farm to do some painting and hosted a Christmas party for elderly people."



Jessica Perez Santivanez travelled from Peru to study for her MSc in Integrative Neuroscience at Edinburgh.

"I wanted to improve the quality of life of patients, so I chose Edinburgh for its extensive disease-related research. I think this University has not only prepared me academically and scientifically, but has helped me to develop as a person. I've pursued passions outside neuroscience and have been involved in activities and discussions regarding global issues. I feel that coming to the University of Edinburgh was one of the best decisions I've ever made – it's had such a positive impact on my life."



Professor Lesley Yellowlees is Vice Principal and Head of the College of Science and Engineering at the University. She is also President of the Royal Society of Chemistry.

"My philosophy has always been about making people believe in themselves and to ensure we give them the surroundings and the opportunities to nurture them. Confidence is vital. If people believe in themselves and believe the institution is going to support them then they tend to do better – and to that end this University is in a good position."

News in brief: a year of exciting opportunities

A selection of the highlights of the University year 2012/13.



August 2012 Pelé receives honorary degree

Legendary Brazilian footballer Pelé received an honorary degree in recognition of his contribution to humanitarian and environmental causes as well as his unparalleled sporting achievements.

Since his retirement from football, three-times World Cup winner Pelé has been Brazil's Extraordinary Minister for Sport and was appointed a United Nations ambassador for ecology and the

environment in 1992. This award came ahead of the opening of a University of Edinburgh Office of the Americas in São Paulo, which will simplify communication and collaboration between the University and regional partners in education, business and government.

Watch the video:
youtu.be/M3LD5nyUZVU



September 2012 Academy of Government launches

The Academy of Government, which will train the next generation of leaders in public service, and is Scotland's first professional school of public policy and administration, opened its doors to students.

At the same time the Academy launched its Executive Master of Public Policy to follow its Master of Public Policy.

The Academy builds upon the University's strengths in research and education, preparing students for careers meeting the key challenges in the public and non-profit sectors, or high-performing professionals in the private sector, who wish to move into the public or non-profit sector.



October 2012 Launch.ed wins national recognition

LAUNCH.ed, the University's highly acclaimed programme for student entrepreneurs, received national recognition for its role in transforming the enterprise curriculum at Edinburgh. There was also high commendation for the team behind the programme, at the 2012 National Enterprise Educator Awards (NEEA).

Year on year, LAUNCH.ed has consistently helped more students start up new businesses and holds the record for the highest number of student business start-ups from any Scottish university in a single year. The team provides one-to-one business mentoring and support to students with business ideas, invests in seed-funding in high-growth potential technology start-ups, and helps students to obtain external funding, all of which was recognised in the 2012 NEEA.



November 2012 Astronaut Piers Sellers revisits space adventures

Dr Piers Sellers, who studied ecological science at Edinburgh in the 1970s, returned to the University to address an audience on his experiences of space travel.

The former NASA astronaut, who has accomplished three space missions and six space walks, used images and film to illustrate his talk, *Piers Sellers – Flying in Space*, at the Appleton Tower. Incorporating his experience as a scientist, Dr Sellers explained the training and preparation necessary to become an astronaut, and spoke of his experiences of space launch and being in space, before opening the floor to the capacity audience for a questions and answers session.



January 2013 Our Changing World lecture series reaches an audience of 10,000

Our Changing World celebrated the completion of its third year with a closing lecture from former President of Ireland and UN High Commissioner for Human Rights Professor Mary Robinson.

Professor Robinson spoke to 1,200 people in the McEwan Hall about placing human rights at the heart of dealing with climate change. The innovative University lecture series, which brings together today's brightest thinkers to tackle some of the world's most pressing questions, has distributed 9,900 free tickets and has had more than half a million lecture downloads. With all 27 lectures sold out over three years, it has quickly established itself as one of the University's most popular public events.

Watch Professor Robinson's lecture:
youtu.be/BEfE97ZmhV8
The Our Changing World lecture series can be viewed here: edin.ac/187VarK



December 2012 Best of the James Tait Black Award

To celebrate 250 years of English literature at Edinburgh, the shortlist for a one-off Best of the James Tait Black award was revealed.

Made up of previous winners of the James Tait Black Best Novel award, the list comprised: Angela Carter, *Nights at the Circus*; Graham Greene, *The Heart of the Matter*; James Kelman, *A Disaffection*; Cormac McCarthy, *The Road*; Caryl Phillips, *Crossing the River*; and Muriel Spark, *The Mandlebaum Gate*. A distinguished judging panel including broadcaster Kirsty Wark, former MI5 Director General and author Dame Stella Rimington, and award-winning author and former Edinburgh Writer-in-Residence, Alan Warner, later selected Angela Carter's *Nights at the Circus*, saying it showed a "fabulous exuberance" with "wonderfully drawn characters" and writing which showed "vitality, lightness, passion and fun".

News in brief: a year of exciting opportunities



February 2013 Muir Maxwell Epilepsy Centre opened by Princess Royal

In her capacity as the University's Chancellor, HRH The Princess Royal officially opened the Muir Maxwell Epilepsy Centre, which will directly benefit the lives of children with epilepsy and their immediate families.

The £1 million research centre will develop medical and educational treatments for epileptic children and seeks to better

understand the psychosocial impact of the condition, which affects more than 70,000 UK children. The Centre hopes to ensure diagnosis at a younger age, allowing for greater use of preventative measures to control seizures. The Muir Maxwell Foundation supports the Centre, established by Ann and Jonny Maxwell, following their son's diagnosis with a severe form of epilepsy in 2003.



March 2013 A new National Avian Centre at Roslin

Work began at the University's Easter Bush campus, on a £14 million National Avian Research Facility (NARF), which will provide a significant boost to poultry health and welfare, key factors in a multi-billion pound food industry.

The Biotechnology and Biological Sciences Research Council, the Roslin

Foundation and the University are funding construction. The initiative involves close collaboration between the Roslin Institute and the Pirbright Institute in Surrey, both renowned for their research into animal diseases. Through studies in avian immunology, vaccine development and the role played by genes in disease resistance, the facility will benefit human health by reducing food-borne diseases.



April 2013 Medieval remains uncovered at the Edinburgh Centre for Carbon Innovation

The remains of a medieval nobleman and the foundations of Blackfriars Monastery, both dating back to the 13th century, were among dozens of finds made in an archaeological dig at the construction site of the Edinburgh Centre for Carbon Innovation.

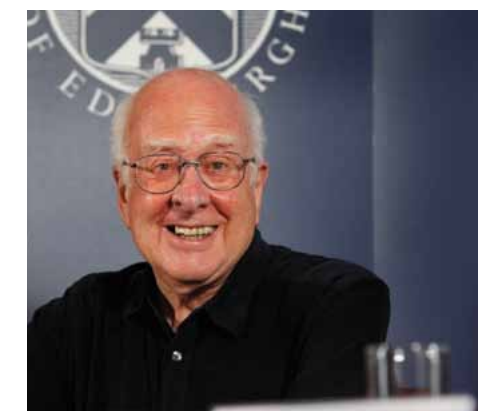
The nobleman was discovered when archaeologists uncovered the corner of an elaborately decorated sandstone slab covering a grave, which bore telltale carved markings of a member of the nobility, including an ornate sword and a Calvary Cross. The excavation revealed the exact location of the monastery, which was founded in 1230 and destroyed during the Protestant Reformation in 1558.



May 2013 The University wins awards for equality

The University has again been formally recognised for its commitment to equality, securing a further three Athena SWAN awards, which recognise policies and practices that strive to eliminate gender bias in the workplace.

The Royal (Dick) School of Veterinary Studies became the UK's first vet school to earn Athena SWAN accreditation by being awarded Bronze and the School of Biological Sciences achieved a Silver award in recognition of a significant record of activity and achievement. The University successfully met the criteria to have its Bronze award renewed. This recognition adds to the awards already achieved. The University's Schools of Chemistry (Gold) and Biomedical Sciences (Silver) and the Roslin Institute (Bronze) have all previously been recognised.



June 2013 Sell-out audience with Peter Higgs at McEwan Hall

Edinburgh alumnus and Emeritus Professor Peter Higgs joined a panel discussion at the University, about the Higgs boson.

Professor Higgs first came up with a theory for the boson as a young researcher at Edinburgh in the 1960s. Its discovery at CERN nearly 50 years later is regarded as one of the greatest milestones in modern physics, and won him a 2013 Nobel Prize. Professor Higgs was joined by four generations of scientists from the University's School of Physics & Astronomy in setting out the importance of the discovery and discussing the inspiration behind the theory and the extraordinary technology and human endeavour that enabled it to be made. The public event was filmed and is available to watch online.

Watch the video:
youtu.be/QtudIGHoBQ8



July 2013 Edinburgh Sutton Trust Summer School opens doors

The Edinburgh Sutton Trust Summer School, an initiative to introduce university life to school pupils took place, its success paving the way for further summer schools in 2014 and 2015.

The Sutton Trust, which identifies and pilots programmes to improve educational opportunities for children from low- and middle-income homes, seeks to increase social mobility, with the week-long summer schools helping to demystify higher education, and equip potential students with the knowledge and insight required to make better quality applications to selective universities. Pupils came to Edinburgh to attend a range of academic classes and heard talks from current University staff and students about the application process, budgeting and what to expect from student life.

Financial review

The past year has proved to be a very successful one with the University delivering another strong financial performance which is the result of continued success in teaching, research and commercialisation, significant investment in our estate, and strong support from our alumni and partners.

Highlights include:

Alumni	<ul style="list-style-type: none"> £13 million of cash donations from alumni.
Endowment performance	<ul style="list-style-type: none"> The return on the University's endowment in the financial year 2012/13 was 21 per cent with a year-end market value of the fund of £284 million. The ten-year average return on the University's endowment fund is 9.3 per cent.
Operating surplus	<ul style="list-style-type: none"> The ratio of operating surplus to total income was on target at five per cent.
Total income and expenditure	<ul style="list-style-type: none"> The total expenditure in 2012/13 was £700 million compared to £660 million in 2011/12. The total income in 2012/13 was £738 million compared to £701 million in 2011/12. There was strong income growth across almost all areas.
Research grants and contracts	<ul style="list-style-type: none"> Research income increased by £7 million to £200 million (£193 million in 2011/12) and represents 27 per cent of total income.
Commercialisation	<ul style="list-style-type: none"> In this financial year 35 new companies were created and 50 commercial licences awarded.
Staff	<ul style="list-style-type: none"> Staff costs were 51 per cent of total income.
Pensions	<ul style="list-style-type: none"> The funding level of the Universities Superannuation Scheme (USS) was 77 per cent and the deficit on the Staff Benefits Scheme (SBS) was £59 million.
Procurement	<ul style="list-style-type: none"> More than £10 million savings were delivered by the procurement team.
Debt	<ul style="list-style-type: none"> Less than £21 million of loans are repayable in five years.
Capital expenditure	<ul style="list-style-type: none"> Nearly £1 billion of capital projects were identified. £124 million has been committed to capital projects that are underway, with an additional £226 million allocated for capital projects in design stage.
Balance sheet	<ul style="list-style-type: none"> The group balance sheet remains strong, with the net assets increasing by £123.7 million from 2011/12. The major components of this include tangible fixed assets of £1.4 billion (including negative goodwill of £27 million); endowment assets of £284 million; net current assets of £200 million; long-term creditors of £109 million; and the net pension liability of £64 million.

Group income and expenditure account for the year ended 31 July

	2013 £'000	2012 £'000
Income		
Funding council grants	204,282	189,438
Tuition fees and education contracts	174,079	150,298
Research grants and contracts	200,123	193,119
Other income	141,732	155,378
Endowment and investment income	17,570	12,654
Total income	737,786	700,887
Expenditure		
Staff costs	377,265	354,673
Other operating expenses	284,765	268,853
Depreciation	32,699	31,569
Interest payable	5,604	4,818
Total expenditure	700,333	659,913
Surplus on continuing operations after depreciation of assets at valuation and before taxation	37,453	40,974
Gain on disposal of fixed assets	547	206
Taxation	(5)	(31)
Minority interest	(9)	(30)
Transfers from accumulated income in endowment funds	265	546
Surplus for the year retained within general reserves	38,251	41,665

Group balance sheet as at 31 July

	2013 £'000	2012 £'000
Fixed assets	1,398,874	1,379,564
Endowment asset investments	283,525	238,329
Net current assets	200,062	178,794
Total assets less current liabilities	1,882,461	1,796,687
Creditors: amounts falling due after more than one year	(108,579)	(109,970)
Provisions for liabilities and charges	(9,570)	(11,005)
Pension liability	(64,181)	(99,274)
Total net assets	1,700,131	1,576,438
Represented by:		
Deferred capital grants	366,077	349,371
Endowments:		
Expendable	183,510	158,476
Permanent	100,015	79,853
Total endowments	283,525	238,329
Reserves		
Revaluation reserve	697,682	714,883
General reserves excluding pension liability	416,989	373,099
Pension reserve	(64,181)	(99,274)
Total reserves	1,050,490	988,708
Minority interest	39	30
Total funds	1,700,131	1,576,438

The above information reflects the audited accounts for the year to July 2013, published in December 2013. Anyone wishing further information is invited to contact the University's Director of Finance.

Honorary graduations and other distinctions

Those awarded honorary degrees between
1 August 2012 and 31 July 2013.



**Professor Bertil Henry
Herbert Andersson**
President, Nanyang
Technological
University, Singapore
Doctor of Science



Dr Bruce Stuart Davie
UK Chief Scientific
Advisor and Honorary
Principal Research
Fellow in Applied
Population Biology,
Imperial College
London
Doctor of Science



**Professor Eric
Pratt Hamp**
Emeritus Professor of
Linguistics, University of
Chicago
Doctor of Letters



**Mrs Nosheena
Mobarik**
Joint Chief Executive
M Computer
Technologies and CBI
Scotland Chair
Doctor *honoris causa*



**Ms Sadenia (Eddi)
Reader**
Musician and Singer
Doctor of Music



Mr Mel Young
President and Chief
Executive Officer, The
Homeless World Cup
Doctor *honoris causa*



**Professor Andrew
Blake**
Managing Director,
Microsoft Research Ltd
Doctor of Science



**Professor Evelyn
Algernon Valentine
Ebsworth**
Former Vice-Chancellor
of Durham University and
Crum Brown Professor
of Chemistry at the
University of Edinburgh
Doctor of Science



Mr Scott Hastings
Former international
Rugby Player and
Sports Commentator
Doctor *honoris causa*



**Mr Edson Arantes do
Nascimento (Pelé)**
Former Footballer and
Brazil's Extraordinary
Minister for Sport
Doctor *honoris causa*



**Dr Gordon
Charles Rintoul**
Director of National
Museums Scotland
Doctor *honoris causa*



**Revd Professor
Carver Tat-Sum Yu**
President and
Abundant Grace
Professor in
Dogmatic Theology,
China Graduate School
of Theology
Doctor of Divinity



**Mr Sylvain René
Gerald Chomet**
Animator and
Film Producer
Doctor *honoris causa*



**Professor Ian
Hector Frazer**
Director, Diamantina
Institute, University
of Queensland
Doctor of Science



**Mr James Essex
Holloway**
Former Director of
the Scottish National
Portrait Gallery
Doctor *honoris causa*



**Professor Ann
Rosamund Oakley**
Professor of Sociology
and Social Policy,
Institute of Education,
University of London
Doctor of Science in
Social Science



**Mr Thomas William
Ellis Smith**
Jazz Musician and
Composer
Doctor of Music



**President William
Jefferson Clinton**
Former US President
and founder of the
Clinton Foundation
Doctor *honoris causa*



Dr Simon Martin Gage
Director of Edinburgh
International Science
Festival
Doctor of Science



**Professor Sir Harold
Walter Kroto**
Francis Eppes
Professor of Chemistry,
Florida State University
Doctor of Science



**Professor
Caryl Phillips**
Professor of English,
Yale University
Doctor of Letters



**Professor Daniel
Petrus Visser**
Professor of Private
Law and Deputy
Vice-Chancellor,
University of Cape Town
Doctor of Laws



**Dame Stephanie
Shirley**
Head of the
Shirley Foundation
University Benefactor



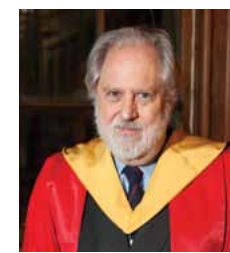
Mr Quentin Cooper
Writer and Broadcaster
Doctor of Science



**Professor Anne
Glover**
Chief Scientific Advisor
to the European
Commission
Doctor of Science



Mrs Ellen J Kullman
Chair of the Board and
Chief Executive Officer
of DuPont
Doctor of Science



**Lord Putnam
of Queensgate**
Independent Film
Producer and Public
Policy Campaigner
Doctor *honoris causa*



**Professor Laurens
Clarus Winkel**
Professor of Legal
History, Erasmus
University of Rotterdam
Doctor of Laws

University Benefactors



**Dame Stephanie
Shirley**
Head of the
Shirley Foundation
University Benefactor



Useful links

[www.ed.ac.uk/about/people/
honorary-degrees](http://www.ed.ac.uk/about/people/honorary-degrees)

Awards and achievements

A selection of accolades bestowed upon members of staff and associates of the University of Edinburgh between 1 August 2012 and 31 July 2013.

Queen's Honours

New Year Honours List

Professor Peter Higgs, Emeritus Professor of Theoretical Physics, was appointed to the Order of the Companions of Honour in recognition of his services to physics.

Professor Peter Buneman, Professor of Database Systems, was appointed MBE for services to data systems and computing.

Professor David Porteous, Professor of Human Molecular Genetics and Medicine, was appointed OBE for services to science.

Mr Alan Walker, Honorary Fellow in the School of Physics and Astronomy, was appointed MBE for services to science engagement and science education in Scotland.

www.ed.ac.uk/news/2012/honours-070113

Birthday Honours List

Professor Mike Dixon, Professor of Surgery and Consultant Surgeon at the Western General Hospital's Edinburgh Breast Unit, was appointed OBE for services to the treatment of breast cancer and for charitable services.

www.ed.ac.uk/news/staff/mike-dixon-250613

University awards

2012 Chancellor's Awards

These annual awards, presented by the University's Chancellor, are given in recognition of innovation, relevance, creativity and personal dedication in teaching and research.

Professor Igor Rudan, Chair in International Health and Molecular Medicine, the Centre for Population Health Sciences, received the award for research.

Professor Jamie Davies, Professor of Experimental Anatomy, the Centre for Integrative Physiology, received the award for teaching.

Dr Eve Hepburn, Senior Lecturer in Politics and Depute Director of the Academy of Government, received the Rising Star Award.

www.ed.ac.uk/news/staff/award-winners-141112

EUSA Teaching Awards 2012

The EUSA Teaching Awards recognise teaching excellence.

Best Feedback Award: Dr Allan Clark (Informatics)

Developing Students' Employability Award: Professor Andrew Curtis (GeoSciences)

Best Personal Tutor Award: Dr Daniel Carr (Law)

Postgraduates Who Tutor Award: Ms Sarah Humayun (Literatures, Languages & Cultures)

Best Research or Dissertation Supervisor: Professor Niamh Nic Shuibhne (Law)

Teaching With Technology Award: Dr Jan Eichhorn (Social & Political Science)

Teaching in the International Classroom Award: Professor Graeme Laurie (Law)

Robert Kendell Award for Teaching in Medicine: Dr Eleri Williams (Molecular & Clinical Medicine)

Award for Teaching in the Veterinary Sciences: Mr Kevin Eatwell (Royal (Dick) School of Veterinary Studies)

Award for Teaching in the College of Science & Engineering: Dr Sue Sierra (Mathematics)

Award for Teaching in the College of Humanities & Social Science: Dr Lauren Hall-Lew (Philosophy, Psychology & Language Sciences)

Supporting Students' Learning Award: Mr Connar Mawer (President, Biomedical Society)

Best School or Subject Area Award: Celtic & Scottish Studies

Best Course Award: Japanese 2 – Joint Japanese 2A & 2B (Literature, Languages & Cultures)

www.eusa.ed.ac.uk/teachingawards

2012 Principal's Medals

These medals are awarded to recognise staff who have made a significant contribution to the University and those who have made an impact in the wider community outside the University.

The Medal for Outstanding Service was awarded to **Dr Jane Haley**, Edinburgh Neuroscience Scientific Coordinator.

The Medal for Service to the Community was jointly awarded to **Ms Sharon Douglas**, Education Programme Assistant for the Wellcome Trust Clinical Research Facility Education Programme, and **Ms Dee Isaacs**, Lecturer in Music at Edinburgh College of Art.

2012 Tam Dalyell Prize for Excellence in Engaging the Public with Science

This annual prize rewards an individual or group for work with a focus on science communication.

The award was given to **Professor José Torero**, BRE Trust/Royal Academy of Engineering Professor of Fire Safety Engineering.

Fellowships

Academy of Medical Sciences

Professor David Hume, Director of the Roslin Institute and Professor of Mammalian Functional Genomics, was made a Fellow of the Academy of Medical Sciences.

British Academy

Professor David Fergusson, Professor of Divinity, and **Professor Lindsay Paterson**, Professor of Education Policy, were elected Fellows of the British Academy for the Humanities and Social Sciences.

Royal Academy of Engineering

Professor Chris Hall, Professor Emeritus and Senior Professorial Fellow, was made a Fellow of the Royal Academy of Engineering.

Royal College of Physicians of Edinburgh

Professor Graeme Laurie, Professor of Medical Jurisprudence, was made a Fellow of the Royal College of Physicians of Edinburgh.

Royal Historical Society

Dr Paul du Plessis, Senior Lecturer in Legal History, was made a Fellow of the Royal Historical Society.

Royal Society

Professor Bill Earnshaw, Professor of Chromosome Dynamics, **Professor Sir John Savill**, Professor of Experimental Medicine, Vice-Principal and Head of the College of Medicine & Veterinary Medicine, **Professor Paul M Sharp**, Professor of Genetics, and **Professor Alan Robertson** Chair of Genetics in the Institute of Evolutionary Biology, were made Fellows of the Royal Society.

University of Edinburgh academics appointed Royal Society University Research Fellows were: **Dr Andrew Buckley**, School of Physics & Astronomy, **Dr Sarah Reece**, the Reece Group, School of Biological Sciences, **Dr Jennifer Smillie**, School of Physics & Astronomy, and **Dr Gerben van Ooijen**, School of Biological Sciences.

Royal Society of Edinburgh

University of Edinburgh academics elected to the Fellowship of the Royal Society of Edinburgh were: **Professor Euan Brechin**, Professor of Coordination Chemistry, **Professor John Frank**, Director of the Scottish Collaboration for Public Health Research and Policy, **Professor James Garden**, Regius Professor of Clinical Surgery, **Professor Iain Gillespie**, Innogen Visiting Professor, **Professor Gabriele Hegerl**, Professor of Climate System Science, **Professor Andrew Millar**, Professor of Systems Biology, **Professor Elspeth Reid**, Professor of Scottish Private Law, **Professor Sethu Vijayakumar**, Professor of Robotics and Microsoft-RAEng Senior Research Fellow.

Making an impact

Fondation Ipsen Prize

Professor Richard Morris, Royal Society/Wolfson Professor of Neuroscience, was co-recipient of the 2013 Fondation Ipsen Prize for Neuronal Plasticity, a prize awarded annually for work on brain development, synaptogenesis, ageing, neural regeneration, cognition and brain growth.

Howard League for Penal Reform Research Medal

School of Law **Professors Lesley McAra** and **Susan McVie** were recognised for their work on the *Edinburgh Study of Youth Transitions and Crime*.

The Scottish Government's Saltire Prize Medal **Professor Peter Fraenkel**, MBE, Visiting Professor at the University, was awarded the Saltire Prize Medal in recognition of his significant contribution to the development of tidal energy.

Local heroes

Saltire Society Literary Awards

- Professor Charles Withers**, Ogilvie Chair of Geography, won Scottish Research Book of the Year for *Scotland: Mapping the Nation* (Birlinn).
- Dr Jeremy Crang**, Senior Lecturer in History, was awarded Scottish History Book of the Year with Edward Spiers and Matthew Strickland for *A Military History of Scotland* (Edinburgh University Press).
- Mr Corey Gibson**, fourth-year PhD candidate and Postgraduate Tutorial Assistant in Scottish Literature, was awarded the Ross Roy Medal for excellence in research in Scottish literature.

Ms Emma Davie and **Ms Morag McKinnon**, Edinburgh College of Art, won the RiverRun International Film Festival award for Best Documentary Feature for their film *I Am Breathing*.

Excellent service

Mr John Nimmo, the University's First Aid Trainer, won the inaugural Scottish First Aid Award for the Public/Non-Profit Sector in recognition of excellence in first aid.

Rising stars

Newton International Fellowships

Early career researchers **Dr Olga Feher**, **Dr Alberto Godioli**, **Ms Annie Priyadarshini Louis** and **Ms Yuliya Zabyelina** were made fellows in this awards scheme that identifies and supports talented international academics at the early stages of their careers.

Science Engineering & Technology Student of the Year Awards

Undergraduate students **James Truesdale** and **Amy Monaghan** won the AWE Award for the Best Chemical Engineering Student and the Award for the Best Pharmacology Student respectively.

Sir William Darling Memorial Prize

Postgraduate student **Sarah Thomas** was awarded for her work in engaging the public with research within the School of Chemistry.

Outstanding research

The Arnold Berliner Award

Dr Mark Young, of the University's School of Biological Sciences, was awarded the first annual Arnold Berliner Award, recognising the best research article published in the journal *Naturwissenschaften – The Science of Nature*.

Lister Institute Research Prize

Dr David Lyons, BBSRC David Phillips Fellow in the Centre for Neuroregeneration, was awarded the Lister Institute Research Prize Fellowship.

Prince of Asturias Award for Technical and Scientific Research

Emeritus Professor Peter Higgs, with Professor François Englert and CERN, won the 2013 Prince of Asturias Award for Technical and Scientific Research for the prediction and detection of the Higgs boson.

Royal Astronomical Society

Kathryn Whaler, Professor of Geophysics, was awarded the Royal Astronomical Society's Price Medal, which recognises investigation of outstanding merit in solid earth geophysics, oceanography or planetary sciences.

Royal Society of Chemistry

Eleanor Campbell, Head of the School of Chemistry and Professor of Physical Chemistry, was awarded the Royal Society of Chemistry Tilden Prize.

International acclaim

American Physical Society

Dr Philip Camp, Reader in Chemical Physics in the School of Chemistry, was designated as an Outstanding Referee.

Trevor Blackburn Award

Professor Brian Perry won the 2012 Trevor Blackburn Award in recognition of his contribution to animal health and welfare in Africa, Asia and Latin America, the impact of his work in fostering the integration of veterinary epidemiology with agricultural economics, and his personal commitment to poverty alleviation by tackling diseases of global significance.

Venice Biennale

Mr Liam Ross and **Dr Tolulope Onabolu**, Lecturers in Architecture at Edinburgh College of Art, were invited to exhibit at the 2012 Venice Biennale as part of the British Council's *Venice Takeaway* project.

French honours

Awarded by the French Ministry of Culture in recognition of significant contributions to the arts or literature, or the propagation of these fields.

Professor Emeritus Sir David Edward of Edinburgh Law School was made an Officier de l'Ordre de la Légion d'Honneur, the highest honour conferred by France. He was also made Chevalier dans l'Ordre des Arts et des Lettres, in recognition of his contribution to arts and literature.

Professor Belinda Thomson, an Honorary Professor in History of Art, was made Chevalier dans l'Ordre des Arts et des Lettres.

Professor Richard Thomson, Watson Gordon Professor of Fine Art, was made Officier dans l'Ordre des Arts et des Lettres.

Weissenberg Award of the European Society of Rheology

Professor Mike Cates, of the School of Physics & Astronomy, was awarded the highest honour of the Society, which addresses the science of how materials flow.



Useful links

www.eusa.ed.ac.uk/teachingawards
www.ed.ac.uk/news/staff/honours-040111
www.ed.ac.uk/news/staff/honours-180612

Appointments

Appointments commenced between 1 August 2012 and 31 July 2013

College of Humanities & Social Science

Personal Chairs

Professor Elizabeth Austin

Personal Chair of Individual Differences and Psychometrics

Professor Ronnie Cann

Personal Chair of Linguistic Semantics

Professor Jeff Collin

Personal Chair of Global Health Policy

Professor Sarah Cooper

Personal Chair of Entrepreneurship and Enterprise Development

Professor John M Davis

Personal Chair of Childhood Inclusion

Professor Josephine Fawcett

Personal Chair of Student Learning (Nurse Education)

Professor Simon Harris

Personal Chair of International Strategy

Professor Ailsa Henderson

Personal Chair of Political Science

Professor Ingrid Jeacle

Personal Chair of Accounting and Popular Culture

Professor James Loxley

Personal Chair of Early Modern Literature

Professor Fiona Mackay

Personal Chair of Politics

Professor Robert MacKay

Personal Chair of Strategic Management

Professor Stephanie O'Donohoe

Personal Chair of Advertising and Consumer Culture

Professor Neil Pollock

Personal Chair of Innovation and Social Informatics

Professor Marion Schmid

Personal Chair of French Literature and Film

Professor Matthias Schwannauer

Personal Chair of Clinical Psychology

Professor Christopher Speed

Personal Chair of Design Informatics

Professorships

Professor John Amis

Chair of Strategic Management and Organisation

Professor Michèle Belot

Chair of Economics

Professor Neil Cox

Chair of History of Art

Professor Laura Cram

Chair of European Politics

Professor Graham Crow

Chair of Sociology and Methodology

Professor Jo Danbolt

The Baillie Gifford Chair of Financial Markets

Professor Robert Dunbar

Chair of Celtic Languages, Literatures, History and Antiquities

Professor Lani Florian

The Bell Chair of Education

Professor Vernon Gayle

Chair of Sociology and Social Statistics

Professor Philipp Kircher

Chair of Economics

Professor Bettelou Los

The Forbes Chair of English Language

Professor Raymond MacDonald

Chair of Music Psychology and Improvisation

Professor Wilson Mcleod

Chair of Gaelic

Professor James Mitchell

Chair of Public Policy

Professor Paolo Quattrone

Chair of Accounting Governance and Social Innovation

Professor Julie Taylor

The NSPCC Chair of Child Protection

Professor Stephen Walker

Chair of Accounting

Honorary Professorships

Professor James Boyle

Moray House School of Education

Professor Antony Duff

School of Law

Professor Paul Meara

Moray House School of Education

Professor Brian Taylor

School of Social & Political Science

College of Medicine & Veterinary Medicine

Personal Chairs

Professor Javier Caceres

Personal Chair of RNA and Gene Expression

Professor Baljean Dhillon

NES Personal Chair of Clinical Ophthalmology

Professor Gordon Findlater

Personal Chair of Translational Anatomy

Professor Lesley Forrester

Personal Chair of Stem Cell Differentiation

Professor Nick Gilbert

Personal Chair of Chromatin Biology

Professor Charlie Gourley

Personal Chair of Medical Oncology

Professor Nicola Gray

Personal Chair of Gene Regulation and RNA Biology

Professor Karen Horsburgh

Personal Chair of Neuroscience

Professor Peter Hoskins

Personal Chair of Medical Physics and Biomechanics

Professor Jeremy Hughes

Personal Chair of Experimental Nephrology

Professor Kamil Kranc

Personal Chair of Molecular Haematology

Professor Julia Lawton

Personal Chair of Health and Social Science

Professor Malcolm MacLeod

Personal Chair of Neurology and Translational Neuroscience

Professor Gillian Mead

Personal Chair of Stroke and Elderly Care Medicine

Professor Anna Meredith

Personal Chair of Zoological and Conservation Medicine

Professor Elspeth Milne

Personal Chair of Veterinary Clinical Pathology

Professor Lee Smith

Personal Chair of Genetic Endocrinology

Professor Michael Thrusfield

Personal Chair of Veterinary Epidemiology

Professor Bruce Whitelaw

Genus Personal Chair of Animal Biotechnology

Professor Sarah Wild

Personal Chair of Epidemiology

Professorships

Professor Mark Arends

Chair of Pathology

Professor Nicholas Barker

Chair of Tissue Regeneration

Professor Michael Cheeseman

Chair of Veterinary and Comparative Pathology

Professor Jeffrey Pollard

Chair of Resilience Biology

Professor Angus Walls

Chair of Restorative Dentistry

Honorary Professorships

Professor Malcolm Alison

School of Clinical Sciences

Professor Yurii Aulchenko

School of Clinical Sciences

Professor Mickey Chopra

School of Clinical Sciences

Professor Christopher Gillberg

School of Clinical Sciences

Professor Laurence Gruer

School of Clinical Sciences

Professor Jeremy Hall

School of Clinical Sciences

Professor Gordon Lauc

School of Clinical Sciences

Professor Ana Marusic

School of Clinical Sciences

Professor Allison McCallum

School of Clinical Sciences

Professor John McKnight

School of Clinical Sciences

Professor Andrea Nolan

Royal (Dick) School of Veterinary Studies

Professor Ben Stenson

School of Clinical Sciences

Professor Veronica van Heyningen

School of Molecular, Genetic & Population Health Sciences

College of Science & Engineering

Personal Chairs

Professor Luke Bisby

Arup Professor of Fire and Structures

Professor Ivan Cheltsov

Personal Chair of Birational Geometry

Professor Philip Clark

Personal Chair of Experimental Particle Physics

Professor Alistair Elfick

Personal Chair of Synthetic Biological Engineering

Professor Eugene Gregoryanz

Personal Chair of High Pressure Physics

Professor Philipp Koehn

Personal Chair of Machine Translation

Professor Mirella Lapata

Personal Chair of Natural Language Processing

Professor Andrew Liddle

Personal Chair of Theoretical Astrophysics

Professor Thomas Little

Personal Chair of Evolutionary Biology

Professor Andrew Mount

Personal Chair of Physical Electrochemistry

Professor Markus Mueller

Personal Chair of Electrical Generation Systems

Professor Kenneth Sawin

Personal Chair of Cell Biology

Professor Khellil Sefiane

Personal Chair of Thermophysical Engineering

Professor Rachel Wood

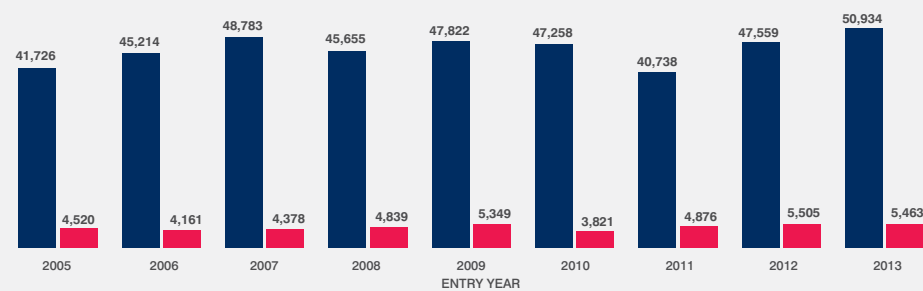
Personal Chair of Carbonate Geoscience

Appendix 1

Undergraduate applications and acceptances

	Men	Women	Total
2005			
Applications*	18,767	22,959	41,726
Acceptances	2,043	2,477	4,520
2006			
Applications*	20,578	24,636	45,214
Acceptances	1,842	2,319	4,161
2007			
Applications*	22,174	26,609	48,783
Acceptances	1,936	2,442	4,378
2008**			
Applications*	21,193	24,462	45,655
Acceptances	2,221	2,618	4,839
2009**			
Applications*	22,523	25,299	47,822
Acceptances	2,479	2,870	5,349
2010**			
Applications*	21,601	25,657	47,258
Acceptances	1,631	2,190	3,821
2011**			
Applications*	18,549	22,189	40,738
Acceptances	1,981	2,895	4,876
2012**			
Applications*	20,371	27,188	47,559
Acceptances	2,281	3,224	5,505
2013**			
Applications*	21,707	29,227	50,934
Acceptances	2,286	3,177	5,463

Please note:
 *Number of applications received in each cycle for entry in the same year or deferred entry the following year.
 **UCAS reduced the number of applications per applicant from six to five from the 2008 entry cycle.



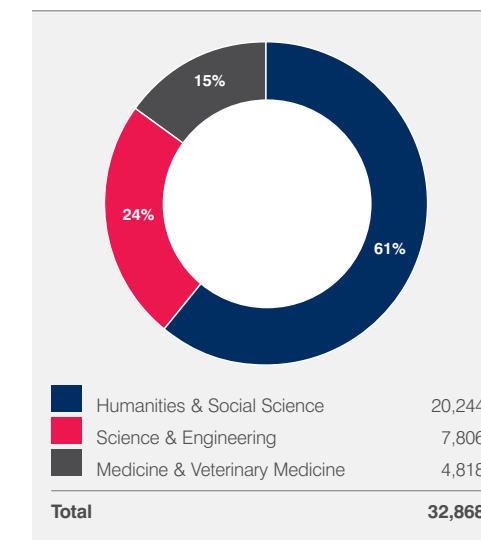
Please note:
 Figures for 2011 include Edinburgh College of Art (ECA) acceptances but exclude ECA applications. Figures from 2012 onwards include both ECA applications and acceptances.

■ Applications
 ■ Acceptances

Appendix 2

Student numbers

Student body by College

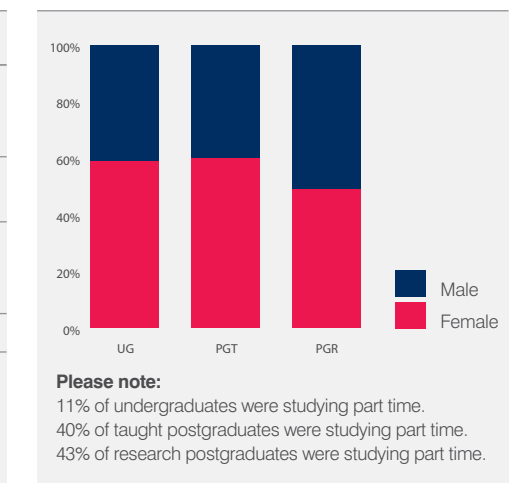


Level of study by College

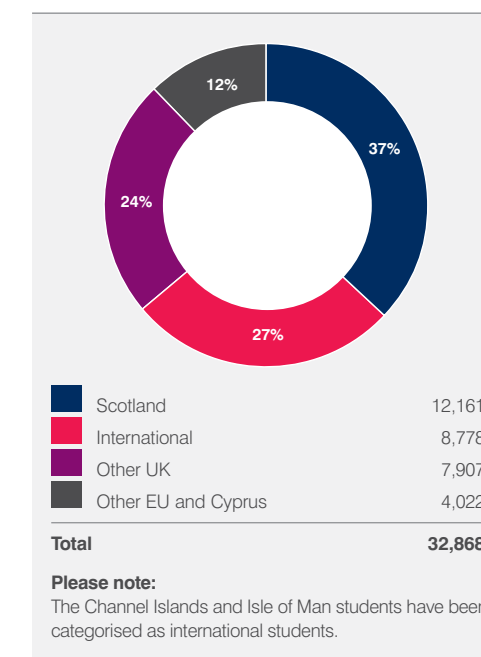
	UG	PGT	PGR	Total
Humanities & Social Science	13,786	4,456	2,002	20,244
Science & Engineering	5,324	853	1,629	7,806
Medicine & Veterinary Medicine	2,567	1,215	1,036	4,818
Total	21,677	6,524	4,667	32,868

UG: undergraduate
 PGT: postgraduate taught
 PGR: postgraduate research

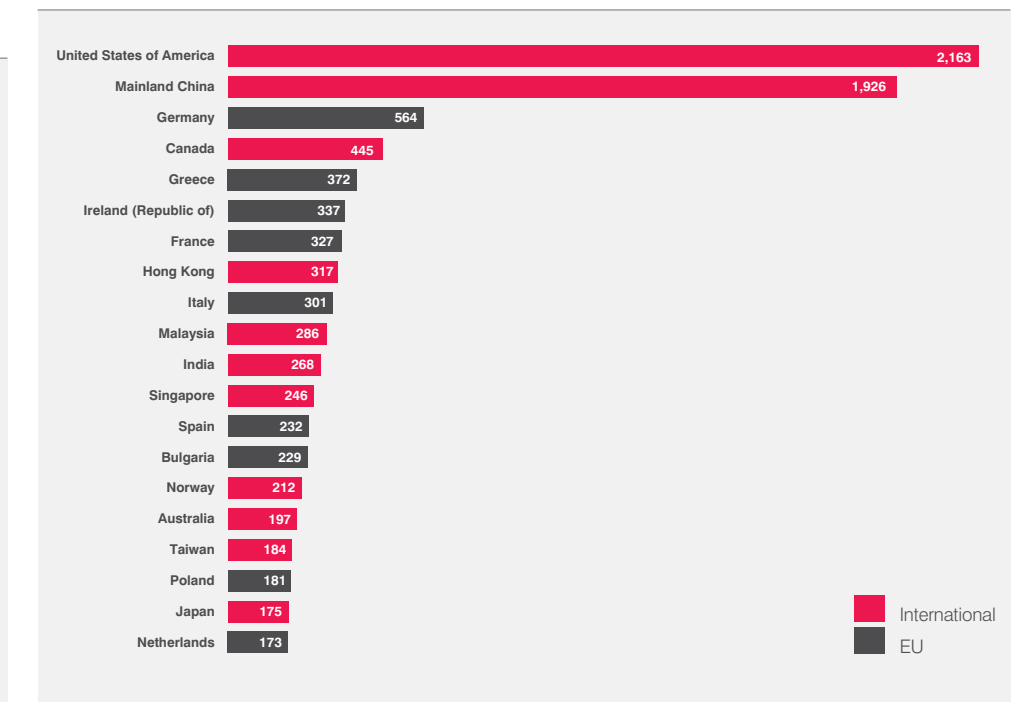
Student body by level of study and gender



Student body by domicile region on entry



Top 20 non-UK domicile on entry



Please note:
 The figures above represent all students matriculated during the session, with the exception of those exiting or interrupting their studies within five weeks of the first semester start date. Visiting students, part-time and distance learning students, and students on collaborative programmes are included. Domicile on entry is declared by the student when first matriculating onto their programme.

Appendix 3

Benefactions

Giving from 1 August 2012 to 31 July 2013

*Donors to the University of Edinburgh USA Development Trust Inc, an organisation formed to advance the purpose of the University of Edinburgh.

£1,000–£4,999

2nd Dunbar Brownies
A Sinclair Henderson Trust
Mr Andrew Agnew
Dr William Allan
Analogue Devices Limited
Mrs Gillian Anderson
Mr Robert J Anderson
Dr Edward Arens*
Mr Mark D Astaire
Sir Michael F Atiyah FRS and Lady Atiyah
Mrs Cynthia Atkinson
Bank of America Merrill Lynch
Mr and Mrs Bell
Dr Stuart Blackie
Mr Robin Blair
Miss Dorothy Boardman
Mr Stephen and Mrs Stephanie Bourne
Mrs Kimberley Bradley
Professor Christopher Breward
Hon H Broughton
Mr Robert Brown
Mrs Maude Brownlie MBE
Mr Alexander Brownlie
Professor Ian Budge and Mrs Judith Budge
Mrs Ann Burleigh
Mrs Mary C Cadbury
Cairn Energy plc
Mr And Mrs Ian W Callan
Mrs Sheila E Cannell
Ms Louise Carse
Professor Sir David Carter FRSE
Professor John W Cassels FRS FRSE
Castansa Trust
Mr D B M Cavaye CA
Mr Alan Chainey
Professor William T Clark and Mrs Jean Clark
Mrs Jean P Colquhoun
Mr Stephen Cowden
Dr Robert Craig
Cummins Generator Technologies
Dr Simon Cunningham
Mr Stuart J Davies
Lady Frances Davis
Mrs Joyce Denny
Mr William G Desson
Deutsche Bank
Mr Simon R Di Rollo QC
Mr Stewart Dick
Mr Adam Dixon
Mr Nicholas Donofrio*
The late Mr Ian Douglall
Mrs Nancy Drucker
Mr Dugald and Mrs Eleanor Eadie
Ede and Ravenscroft Limited
Mr Robert Eden
Edinburgh University 1962 Medical Graduates
Edinburgh University Club of Toronto
Edinburgh University Glee Club Reunion 2012
Mr and Mrs Goetz Eggelhoefer
Dr Roualeyn Fenton-May*
Professor David Fergusson
Dr Grace Fergusson
Dr Marianne Fletcher
Professor Archibald Forrest
Ms Claire Forrest
Mrs Margaret M Garvie
Dr Angus Gibson
Ms Marlene H Gilchrist
Gloag Foundation
Google UK Limited
Mr Morton Gould
Mr Alan Gray
Professor James Gray OBE and Mrs Catherine Gray
Dr Mary Hall
Dr Graham Hamilton*
Mrs Mabel Harkess
Dr Roy Harris OBE
Dr Erik Hauge
Mr Alan and Mrs Elizabeth Herd
Professor William Hill OBE, FRS, FRSE
Dr Edward Ho
Ms Edith Holiday*
Mrs Fleur Hoole
Inner Wheel Club of Alloway
Mrs Felicity A Ivory
Mr Andrew Jamieson
Dr Brian Jamieson
Mr David Jeenes
Dr Michael Jesudason*
Professor Eve Johnstone CBE
Mr Chris Judge
Miss Aileen Ker
Mr David Kerr
Mrs Joan D Kidd
Dr Stuart Laing
Sir Robert Langlands FRSE Hon FMedSci
Dr Pamela Laurie
Mr John Leahy
Mr Alexander Leslie
Mr Alan P Liebing
Mr John N Lloyd
Dr Christopher Lord
Miss Sharon Lorimer
Dr Jim Love*
Mrs D Macafee
Dr Alastair Macdonald
Mr W K Maciver CBE and Mrs Virginia Maciver
Mr Angus K Mackay
Dr John Mackay and Dr Judith Mackay OBE
The Rt Hon The Lord Mackay of Clashfern
Mr George Mackintosh
Dr Mary McLeod

Manchester Edinburgh University Club
Mr Ross Marshall
Friends and Family of Roy Massie
Mr David Massingham and Ms Bridin O'Connor
Mr Richard Maudslay CBE and Mrs Rosalind Maudslay
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The Lanistown Trust
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Mr Derek and Mrs Maureen Moss
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The late Mr Thomas Rarity
Ms Anne and Mr Matthew Richards
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The Scottish Catholic International Aid Foundation
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PiggyBankKids
The late Dr Elizabeth Rose
Row Fogo Charitable Trust
Dr Frank Rushbrook CBE
The late Mrs V Salmon
Santander Plc
Scottish Journal of Theology
Scottish Power
The late Dr Rosemary Smith
The Doreen Maguire Trust for Cancer Research
The Dr Mortimer and Theresa Sackler 1988 Foundation
The Muir Maxwell Trust

The RS Macdonald Charitable Trust
The Shirley Foundation
The Wolfson Foundation
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Dr Alfred Wild
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Mr Thom Tuck
Dr Jason Turner
Mr Mark Vescovi
Rev Dr Robert Walker
Professor Sir David Wallace CBE
Lady Elizabeth Wallace
Mr Xiangcheng Wang
Mr Rodney Wasserson

Appendix 4

Research grants and other sources of funding

From charities, industry and other institutions

UK – Charity

Sponsor	Project total £'000
Alzheimers Research UK	156
Alzheimers Society	225
Anonymous Donor	90
Arthritis Research UK	140
ARUK East Central Scotland Network Centre	2
Asthma UK	324
Breakthrough Breast Cancer	85
Breast Cancer Campaign	10
British Exploring Society	4
British Heart Foundation	7,302
British Lung Foundation	25
British Orthopaedic Association	3
British Society for Cell Biology	2
British Society for Neuroendocrinology	5
Caledonian Research Foundation	6
Cancer Research UK	5,008
Carnegie Trust for the Universities of Scotland	220
Chest, Heart and Stroke Scotland	258
CICRA – Crohns in Childhood Research Association	116
Coeliac UK	81
Commonwealth Scholarships	3
Cure Parkinson's Trust	36
Cystic Fibrosis Trust	42
Darwin Trust	195
Diabetes Research and Wellness Foundation	16
Dr Hadwen Trust	164
Edinburgh and Lothian Health Foundation	441
Edinburgh World Heritage	1
Edinburgh, Lothians, Fife and Borders Regional Articulation Hub	15
Esmee Fairbairn Charitable Trust	38
Fergus MacLay Leukaemia Trust	19
Global Dialogue	2
Great Britain Sasakawa Foundation	1
Houghton Trust	4
Independent Social Research Foundation	45
Institute of Physics	100
International Institute for Environment and Development	78
Kay Kendall Leukaemia Fund	275

Kidney Research UK	35
Lady Tata Memorial Trust	36
Letter Box Club	3
Leukaemia and Lymphoma Research	1,337
Leverhulme Trust	1,555
Lister Institute of Preventive Medicine	6
Marie Curie Cancer Care	156
Mason Medical Research Trust	61
Medical Research Foundation	70
Medical Research Scotland (SHERT)	119
Melville Trust	165
Merck, Sharp, and Dohme (MSD) Research Foundation	14
MoreDun Research Institute	46
Motor Neurone Disease Association	20
National Institute for Academic Anaesthesia	24
National Osteoporosis Society	105
National Society for the Prevention of Cruelty to Children	5
Nuffield Foundation	49
Palaeontological Association	2
Pancreatic Cancer Scotland	10
Parkinsons UK	182
Paul Mellon Centre for Studies in British Art	8
People's Trust for Endangered Species	9
Perrott-Warwick Fund	33
Pet Plan Charitable Trust	10
Rosetrees Trust	10
Sarcoma UK	17
Scottish Intensive Care Society	20
Sir Halley Stewart Trust	40
SMA Trust	90
Society for Latin American Studies	1
Strathmartine Trust	1
Stroke Association	94
Tenovus – Scotland	30
The Queen's Nursing Institute Scotland	2
Tommy's Campaign	424
Tres Cantos Open Lab Foundation	2
UK Biobank	83
Universities China Committee-London	1
Universities Scotland	10
Wellbeing of Women	144
Wellcome Trust	13,942
Woodland Trust	3
34,511	

EU – Industry

Sponsor	Project total £'000
AstraZeneca	201
Digintana	35
Evonik	166
GE Healthcare, Finland	200
LKAB	200
Petroleum Geo-Services ASA	144
Pfizer International Operations	100
Realización de Iniciativas Alternativas	7
Virbac	8
Zentrum für Baltische und Skandinavische Archäologie	28
1,089	

EU – Other

Sponsor	Project total £'000
Bial Foundation	68
Breast International Group	60
ELA Research Foundation	44
ETH Zurich	49
European Space Agency	14
Forschungszentrum Telekommunikation Wien GmbH	13
Gerda Henkel Foundation	69
Human Frontier Science Program Organization	209
Netherlands Organisation for Scientific Research	58
Stichting MS Research	38
622	

Learned Society

Sponsor	Project total £'000
Academy of Medical Sciences	30
Anatomical Society	53
British Academy	592
Royal Academy of Engineering	844
Royal Astronomical Society	1
Royal College of Surgeons Edinburgh	82
Royal Society	4,694
Royal Society of Chemistry	147
Royal Society of Edinburgh	911
Society for Endocrinology	39
Society for Reproduction and Fertility	20
7,413	

UK – Industry

Sponsor	Project total £'000
Agilent	41
Airborne Energy Ltd	10
Antoxis Limited	6
ARUP	22
Astellas Pharma Europe Ltd	35
AstraZeneca – UK	5
Aviagen	62
AWE	34
Axis-Shield	8
Bioparametrics Ltd	8
British Broadcasting Corporation	18
Carl Zeiss Ltd	12
Castrol Limited	100
CelluComp Ltd	15
Conoco Phillips (UK) Ltd	47
Costain Oil Gas & Process Ltd	173
Crown Estate	70
Diageo Scotland Ltd	12
Dengie Crops Limited	6
Edinburgh Biosciences Ltd	27
Energy Technologies Institute	129
ForestRe Ltd	8
GE Power Conversion UK Ltd	50
Genus plc	966
GlaxoSmithKline	60
Hayward Taylor Ltd	13
Johnson Matthey Plc	53
Joint Industrial Project	203
LTS International Limited	38
Maxymiser Limited	49
MicroMass UK Ltd	24
Microsoft Research Ltd	142
MSD	100
Mundipharma	484
Napp Pharmaceuticals Limited	23
Novartis Pharmaceuticals UK Ltd	60
Ove Arup	250
Pfizer Ltd	982
Psymetrix	25
Quality Meat Scotland	10
Quintessa Limited	126
Roche Diagnostics Ltd	15

Roslin Foundation Ltd	498
Schlumberger Cambridge Research Limited	47
Scotbeef Ltd	123
Scottish and Southern Energy PLC	25
Scottish Bioenergy Cooperative Ventures Limited	12
Scottish Food Quality Certification Limited	4
Selex Ltd	116
Shell Research Limited	106
Statoil Petroleum AS	47
STMicroelectronics	156
Stryker International	35
Sunamp Ltd	27
Syngenta	15
Toshiba Medical Visualisation Systems Europe Ltd	8
Toshiba Research Europe Ltd	115
Total E&P UK PLC	47
UCB Celltech	80
Vitol Services Ltd	53
Winton Capital Management	10
6,045	

Overseas – Charities

Sponsor	Project total £'000
American Council of Learned Societies	24
Andrew Mellon Foundation	317
Bill and Melinda Gates Foundation	444
CHDI Foundation Inc	38
Deutscher Akademischer Austauschdienst	3
Found Animal Charity	369
Guggenheim Foundation	19
Institute for BioTechnology Futures (IBTF)	106
John Templeton Foundation	67
Kenneth Rainin Foundation	61
Mayo Clinic	14
Morris Animal Foundation	106
Multiple Sclerosis Society of Canada	24
National Alliance for Research on Schizophrenia and Depression	38
National Philanthropic Trust	109
Unicef	10
William and Elizabeth Davies Charitable Foundation	68
1,817	

Overseas – Government

Sponsor	Project total £'000
British Council – India	198
British Council – Israel	199
European Office of Aerospace Research & Development	75
National Institute of Standards and Technology	34
National Institutes of Health	386
Office of Naval Research	333
Qatar National Research Fund	117
UK-India Education and Research Initiative	137
1,479	

Overseas – Industry

Sponsor	Project total £'000
ACTEW Water	19
Biogen Idec	1,875
Cytec Industries Inc	36
Intel Corporation	58
Janssen Alzheimer Immunotherapy	72
Karyopharm Therapeutics	9
Marza Animation Planet Inc	121
Samsung Electronics Co. Ltd	78
Sulzer Chemtech Ltd	50
Sulzer Innotec	50
Unhwa Biotech	764
Wm Wrigley Jr. Company	41
3,173	

Overseas – Other

Sponsor	Project total £'000
International Fine Particle Research Institute, Inc.	22
Japan Science and Technology Agency	217
Mpingo Conservation & Development Initiative	39
Texas Engineering Experiment Station	27
305	

Appendix 4

Research grants and other sources of funding (continued)

Overseas – Universities etc

Sponsor	Project total £'000
European University Institute	7
National University of Sciences and Technology	12
New York University	215
Norwegian University of Science and Technology	181
Regents of the University of California	5
Tufts University	7
University of California	6
University of Goettingen	300
University of Köln	29
University of Michigan	4
University of Minnesota	29
University of Texas Health Science Center at Houston	36
	831

Total from charities, industry and other institutions £'000 **57,285**

Research Councils and other Government agencies

UK – Research Council

Sponsor	Project total £'000
Arts and Humanities Research Council	2,802
Biotechnology and Biological Sciences Research Council	20,983
Economic and Social Research Council	11,145
Engineering and Physical Sciences Research Council	23,817
Medical Research Council	99,327
MRC National Institute for Medical Research	15
National Centre for the Replacement, Refinement and Reduction of Animals in Research	945
Natural Environment Research Council	8,416
Research Councils United Kingdom	1,440
Science and Technology Facilities Council	7,948
	176,838

EU – Government

Sponsor	Project total £'000
European Commission	30,792

UK – Government

Sponsor	Project total £'000
Chief Scientist Office – Scotland	2,422

City of Edinburgh Council	9
Defence Science and Technology Laboratory	338
Department for Environment, Food and Rural Affairs	692
Department of Culture, Arts and Leisure	48
Forest Research	6
Forestry Commission	20
Health Protection Scotland	61
Horseshoe Betting Levy Board	220
Imperial War Museum	13
Joint Information Systems Committee	20
Knowledge Transfer Network Biosciences	5
Knowledge Transfer Partnership	77
National Records of Scotland	10
Scottish Development International	1
Scottish Enterprise	1,153
Scottish Environment Protection Agency	3
Scottish Funding Council	10,085
Scottish Government	1,273
SNIFFER	48
Technology Strategy Board	540
UK Space Agency	4
	17,048

UK – Health Authorities

Sponsor	Project total £'000
Freeman Hospital	23
Greater Glasgow NHS Board	52
National Institute for Health Research	2,426
NHS Health Scotland	37
NHS Lothian	87
NHS North Tyneside Primary Care Trust	6
	2,631

UK – Universities etc

Sponsor	Project total £'000
Cardiff University	330
Coventry University	9
Edinburgh Napier University	66
Energy Technology Partnership (ETP)	25
Glasgow Caledonian University	14
Heriot-Watt University	1,499
Imperial College	1,102
James Hutton Institute	3
King's College London	28
Loughborough University	18
Queen Mary University of London	143

Queen's University of Belfast	10
Scottish Agricultural College	54
Scottish Institute for Policing Research	129
Scottish Sensor Systems Centre	79
Scottish Universities Life Science Alliance	192
Scottish Universities Physics Alliance	10
University College London	232
University of Aberdeen	8
University of Abertay	14
University of Bath	89
University of Birmingham	81
University of Bristol	810
University of Cambridge	1,300
University of Dundee	1,441
University of East Anglia	65
University of Exeter	530
University of Glasgow	1,454
University of Hull	19
University of Kent	3
University of Leeds	616
University of Leicester	122
University of Liverpool	628
University of London	35
University of Manchester	1,540
University of Newcastle	262
University of Northumbria	8
University of Oxford	12
University of Reading	181
University of Sheffield	127
University of Southampton	107
University of St Andrews	1,039
University of Stirling	7
University of Strathclyde	651
University of Sussex	21
University of the Highlands and Islands	140
University of Warwick	812
	16,065

Total from research councils and other government agencies £'000 **243,374**

Grand Total £'000 **300,659**

Please note:

The above list sets out the total project value of research grants funded from these sponsors. The sponsor will have contributed this whole amount, with the exception of some governmental sources (including research councils) and charitable sources, which fund the majority, with the balance being received indirectly via the Scottish Funding Council.



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