

# *in* Conversation

THE MAGAZINE FOR ALUMNI AND FRIENDS OF HERIOT-WATT UNIVERSITY

## High Impact

Lisa Kearney on how alumni helped her to the Commonwealth Games

P12

## Lyell Centre

Next Generation Research

P25

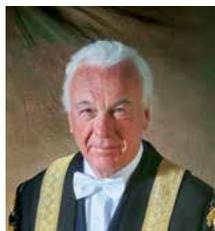
## Russian Reunion

25 Years Later

P5

# Welcome

Welcome to *In Conversation*, the magazine for Heriot-Watt's alumni and friends.



Heriot-Watt is undergoing an unprecedented period of growth and development, nationally and internationally. Not only have we recently expanded our campus in Dubai, we have welcomed the first students to our purpose built Malaysian Campus (pg 18). At our Edinburgh campus, we have been chosen as the home of the National Performance Centre for Sport (pg 23), and we are excited to plan for the arrival of the British Geological Survey in Scotland, which will form part of the Lyell Centre for Earth and Marine Science and Technology (pg 25).

We have continued to support students, to achieve both their academic and extra-curricular goals, through our range of bursaries and scholarships, and through our Commonwealth medal winners we have seen three very clear examples of how these support success outside academic achievement. (pg 12)

From our graduations, we've welcomed a further 6,000 members to our alumni community (pg 28), and through the work of our Development and Alumni office, have updated over 25,000 alumni records, meaning we can reconnect and stay in touch with even more of our graduates.

It is important that you keep us up to date with changes of contact details, so we can continue to share the University's news with you, and invite you to our alumni events throughout the year. Additionally, we know there are many "lost alumni" out there who we have lost touch with over the years, and it would be wonderful to bring them back into the fold. If you know a Heriot-Watt graduate who hasn't received this magazine, please pass it on to them so they can update their details at the website below.

I hope you enjoy the magazine, and look forward to meeting you at a future Heriot-Watt event!

## Dr Robert Buchan

Chancellor  
DEng, MSc, BSc

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Heriot-Watt University **In Conversation** Spring 2015

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## The Edinburgh Centre for Robotics Launches

The Edinburgh Centre for Robotics is a joint venture between Heriot-Watt University and the University of Edinburgh. It involves two main elements, the Robotarium, a state-of-the-art equipment facility for research and knowledge exchange, and the Engineering & Physical Sciences Research Council (EPSRC) Centre for Doctoral Training in Robotics and Autonomous Systems. In total, the Edinburgh Centre for Robotics is supported by over 40 industrial partners.

Visit [www.edinburgh-robotics.org](http://www.edinburgh-robotics.org) to find out more.



## University Rankings & REF Results

Our results from the National Student Survey 2014 placed us 1st in the UK for Chemical Engineering and Electrical Engineering. Our student satisfaction score places us 3rd in Scotland and 39th in the UK, out of a total of 124 institutions taking part.

The Guardian University Guide 2015 ranked us overall 13th in the UK and 2nd in Scotland, and top in the UK for Chemistry and Civil Engineering. For a breakdown of results, please visit [www.hw.ac.uk/about/reputation/our-rankings.htm](http://www.hw.ac.uk/about/reputation/our-rankings.htm)

Heriot-Watt University has risen to 33rd position in the UK in the new Research Excellence Framework (REF) outcomes, compared with 45th last time. For more information visit <http://thewattclub.hw.ac.uk/magazine/>

## Scottish Confucius Institute established at Heriot-Watt University

Scotland's educational links with China have been taken to the next level, after an agreement was struck to establish a Confucius Institute at Heriot-Watt University, the first to specialise in business and communication.

The Institute, the fifth in Scotland, will aim to help Scottish companies to engage with China and increase the provision of Chinese language learning for business purposes.

<http://thewattclub.hw.ac.uk/magazine/>

## Change at the Top



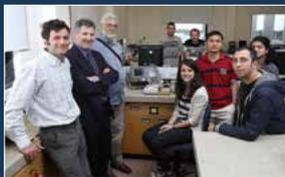
In 2014, Vice-Chancellor Professor Steve Chapman announced his intention to leave Heriot-Watt in March 2015, in order to take up the post of Vice-Chancellor at Edith Cowan University in Australia.

Professor Chapman said

"During my time at Heriot-Watt I have been extremely fortunate to be part of a period that has seen the University go from strength to strength. I am extremely proud to be able to say that the Heriot-Watt I will leave in 2015 is in an excellent position to face the challenges of the coming years."

We would like to wish Professor Chapman all the very best for his future career in Australia.

## Satellite project fit for the fast track



Broadband satellite communication systems on planes, trains and other fast-moving platforms are being advanced

by Heriot-Watt University, working alongside Space Engineering - Europe's largest space company.

The project, led by Professor George Goussetis from the Research Institute of Signals, Sensors and Systems in the School of Engineering and Physical Sciences, has attracted €1.5million funding from the European Commission. Of this, €1 million has been allocated to Heriot-Watt University to test and develop new, smaller mobile Very Small Aperture Terminals (mVSAT), which will provide higher data rates and improved quality of service to users on mobile platforms exploiting the next generation of satellite signals.

<http://thewattclub.hw.ac.uk/magazine/>

## Overly polite drivers, not roadworks, cause traffic jams



British motorists are too polite or timid in their driving style and are the cause of lengthy traffic jams across the UK, according to a leading

Heriot-Watt research scientist. Dr Guy Walker, Associate Professor in Human Factors with Heriot-Watt's Institute for Infrastructure and Environment, found traffic jams can be up to 20 per cent worse than engineers plan for, due to drivers being overly polite on the road.

<http://thewattclub.hw.ac.uk/magazine/>

## New corals discovered on UK's highest underwater mountain



A team of Heriot-Watt scientists led by Professor J Murray Roberts of the School of Life Sciences have discovered new

populations of deep-sea corals growing on the slopes of the UK's highest underwater mountain, a site recently added to the list of Scotland's new Marine Protected Areas.

Standing at 1400 m above the surrounding seafloor, the Hebrides Terrace Seamount is the UK's highest underwater mountain (Ben Nevis is 1344 m above sea level). The deep-sea corals were discovered by a robot sub during the first-ever visual survey of the steep, sloping flanks of the Hebrides Terrace Seamount, an extinct, subsea volcano.

<http://thewattclub.hw.ac.uk/magazine/>



# The limits of my language mean the limits of my world

*The last time Alison Suttie and Jim Halliday met, she was a student, he was her lecturer, and the Soviet Union was about to undertake its biggest reform in recent history. In Conversation brought them back together on our Edinburgh campus to catch up after 25 years.*

Studying for a degree in Languages (Interpreting and Translating) specialising in French and Russian, Alison spent her year abroad in the Soviet Union and France during 1988-89, where there was a revolutionary feeling of excitement and change in the air. "It was the height of Glasnost and Perestroika in Russia, and yet there was an ever-present feeling of cold war paranoia. We all thought the radios were bugged – you could turn them down, but not off."

This contrasted with the late 1960s, when Jim was a British Council exchange scholar in the USSR. Leonid Brezhnev was the General Secretary of the Communist Party, the average age of the Politburo was over 70, the period known as the 'era of stagnation' was already in full swing and "You would get woken up by the Soviet National Anthem at 6am, every morning!"

Continued >

They both spent time in the same region of Russia. Voronezh, some 300 miles to the south of Moscow, is an area they remember fondly, despite the hardships of life in the area at the time.

It was a far cry from the life in Edinburgh that Jim remembers fondly, during a period when Heriot-Watt was transitioning from Chambers Street to its current home in Riccarton. "The Secretary of the University played the piano at lunch time, and the strains of the music could be heard around the Chambers Street building. I doubt that's something that the current Secretary has! Staff and students would also regularly go out for a drink together in the Grassmarket at lunchtime."

The Multilingual Debate, which still takes place today, would always finish with a visit to the Last Drop pub. "But we would never discuss how students did at the debate there. They had already been through enough, and it was time to relax."

The late eighties and early nineties was a fascinating time to be studying Russian, as Mikhail Gorbachev sought to reform the country into a more democratic state. Alison chose the language because she was interested in politics, and this gave her an opportunity to go to Russia and understand a culture alien to most in the West.

Jim started learning Russian at Secondary School in Edinburgh, before continuing at St Andrew's University. After graduation he worked for two years as a researcher in the Foreign and Commonwealth Office. "The work was fascinating," he said, "but after a couple of years I wanted a change. In 1973 I had the good fortune to be taken on to the staff at Heriot-Watt and immediately felt at home." The Russian Department at Heriot-Watt was the last in the UK to start teaching language from scratch. "We did not believe that we could take students from zero to interpreting in a booth within four years. However, not only

was it possible but some of the best graduates in Russian started out as *ab initio* students, that is, learning the language from scratch. After an abortive attempt to use existing course books, which went much too slowly, the staff of the Russian section decided to write their own materials. Some of the early ones were based on the life of Jim himself; they eventually grew into a door-stop of a textbook entitled 'Russian for Undergraduate Students,' published by CUP.

Alison is still proud of the pioneering spirit in the language courses at Heriot-Watt. "The University is the first in Scotland to offer a degree in British Sign Language, and the number of international students studying here is fantastic, along with the young and innovative lecturers that have been brought in. It's great to come and visit again, and see how far the campus has developed in the last quarter of a century." Jim pointed out that at that time the Heriot-Watt languages course was regarded as radical, because it was fundamentally different from the traditional language-and-literature courses offered as standard in universities, "There was a pioneering spirit in the department, and we were always looking for new and different ways of teaching language not as a series of grammar rules but as a working tool to be actively used."

Graduates from Jim's course have gone on to build hugely successful careers in politics, human rights and journalism, to name but a few fields, but he is reluctant to take the credit. "The success of a student isn't down to me, it's down to their own hard work. There is a great deal of memory work involved, especially for *ab initio* learners, and constant practice and repetition. Learning a language like Russian isn't easy, but it is hugely rewarding if you put the time and effort in throughout the four years, and Alison is a perfect example of this."

# A LANGUAGE IS MORE THAN THE SUM OF ITS LEXICAL STOCK AND GRAMMATICAL RULES AND CONVENTIONS; IT IS THE CARRIER OF CULTURE AND ACQUIRING A KNOWLEDGE OF THIS IS ALSO VITAL

JIM HALLIDAY

## Jargon Buster

### USSR

The Union of Soviet Socialist Republics, founded in 1921 and dissolved in 1991

### GLASNOST

translates to "openness" in English, and was General Secretary Mikhail Gorbachev's policy for a new, open policy in the Soviet Union where people could freely express their opinions.

### PERESTROIKA

translates to "restructuring," and was General Secretary Mikhail Gorbachev's program to restructure the Soviet economy in an attempt to revitalise it.

### COLD WAR

The Cold War was a clash of very different beliefs and ideology - capitalism versus communism - which formed the basis of an international power struggle primarily between the USA and USSR, and lasted from approximately 1947-1991.

### POLITBURO

the highest policy-making government authority under the Communist Party of the Soviet Union



Alison's career has been on a skywards trajectory since graduating. She used her translation skills intensively whilst working in the European Parliament. Since then, she has gone on to become Deputy Chief of Staff in the Office of the Deputy Prime Minister under Nick Clegg, and in 2013 was appointed a Liberal Democrat Working Peer, and now sits in the House of Lords. "I remember one of my former lecturers using the quote, "The limits of my language mean the limits of my world ", and I couldn't agree with that more. Learning a new language opens up a new way of thinking, which has certainly helped me develop an international career."

After Russian stopped being taught at the University, Jim focused on the use of technological aids for translators such as computer assisted translation and the application of machine translation. With the growth of the internet, there is now more material needing to be translated than ever before. As this technology grows, will we still need translators in the future? Their conclusion was unanimous and forceful.

"Yes. Without a doubt" said Alison. "You will always need people who understand the culture of a country. Machines may be able to translate books word for word, but will they ever be able to translate literature, with all the nuances, the humour, and the essence? They certainly can't now, and maybe they won't ever be able to."

Jim agrees with equally enthusiastic support for the future of learning languages. "A language is more than the sum of its lexical stock and grammatical rules and conventions; it is the carrier of culture and acquiring a knowledge of this is vital. It's also vital that there is a sufficient number of people who know and understand the way of life and thought-processes of other cultures. Understanding why things are said is just as important as how to say them, and we'll always need human translators for that."

01 Alison and Jim try out the new equipment in the language labs.



02 Meeting current language students.



03 Alison during her student days in Voronezh Student Hall of a Residence



04 It's never too late to learn a language!



# Giving Forward



*The Annual Fund has been impacting upon the lives of our students since 1995 thanks to generous donations from alumni and supporters. The fund's purpose has been to enhance the student experience, reward excellence or encourage innovation. Here's a taste of some projects that are helped by the Fund.*

## Formula Student

The Fund helps support Heriot-Watt's team in Formula Student. Heriot-Watt Racing is the student-led team which takes part in the annual Formula Student competition. The competition, run by the Institution of Mechanical Engineers, provides students with a platform to apply the theory and skills learned in their degree to a real-life engineering environment. Being a part of the competition is much more than just designing and building a car - it's all about running a successful race team, with a range of non-technical roles including accounting, media, events and communication.

Find out more at <http://www.hwracing.co.uk/>

## First Aid Africa

First aid Africa is a charity which began in 2008 when a group of students got together with the intention of travelling to East Africa to teach first aid. Founder Sam Abrahams said "We know that injuries cause more deaths every year than Tuberculosis, Malaria and HIV combined so learning the skills to help in an emergency can be the difference between life and death. Funding from Heriot-Watt's alumni has been crucial in developing the charity. This year, for example, students trained more than 15,000 men, women and children across sub-Saharan Africa. Heriot-Watt has helped us give people a fighting chance, and we owe it to the generous donors to this fund."

To find out more, visit <http://thewattclub.hw.ac.uk/magazine>



01



02



03

## Research Funding

The Annual Fund also helps proactive students undertake research experience they often would not be able to afford. Sarah Fitzek, undertaking an MSc in Climate Change undertook a five-week cruise on the RRS James Cook, studying the impact of climate change on deep water corals in the Mingulay Reef off the west coast of Scotland.

"It has provided me with worldwide international scientific connections and understanding of globally connected research projects such as the 'Changing Oceans'. The experience helped me to outline my own professional future, and am still in contact with international scientists which allows me to take part in an international scientific network" said Sarah.

## Edinburgh Business Weekend

Edinburgh Business Weekend is an annual student-run business competition organised by the Economics Society at Heriot-Watt University, and the Annual Fund is a regular supporter of this event.

"This is a rare opportunity to meet fellow like-minded students from across Europe and discover their perspectives and ideas, not to mention the invaluable chance to hear directly from BP about their graduate scheme and operations as a whole.

We are extremely grateful for the support that we receive from both BP and the Heriot-Watt Annual Fund, who make the entire weekend possible." - Mwelwa Mukwashi, EBW Marketing Officer & Economics student.

Find out more at <http://ebw2014.com/>

1. HW Student Scott Hutcheson teaching in Malawi first aid africa
2. EBW winners on the night
3. Formula Student

# Flowing Upstream



*Chevron's Support Exceeds £1million*



**Since 2009, the support that Heriot-Watt has received from Chevron Upstream Europe (CUE) has exceeded £1million. The University is one of only sixteen non-US universities in Chevron's University Partnership Programme (UPP). The other UK University is the University of Aberdeen.**

The UPP is now entering its sixth year at Heriot-Watt and since its inception, it has supported 50 students as part of its comprehensive Scholarship Scheme. The Scholarships, awarded competitively each year, are much sought after by students in Mechanical, Chemical and Electrical Engineering, providing financial support and a raft of professional benefits in years three, four and five of the Masters courses. Over the years, Chevron's UPP relationship has also provided a number of internship opportunities to Heriot-Watt students allowing them access to invaluable work experience. This summer a further seven students from Heriot-Watt experienced a 10 week placement in Chevron's Aberdeen office.

"Technology is a strategic differentiator for Chevron and we need talented individuals with strong teamwork and technical capabilities. Our investment through the UPP supports this by building academic excellence and research capacity, which is helping to ensure we have a global workforce equipped with the right skills for the future," said Craig May, managing director at CUE.

In addition Chevron's programme supports two fully-paid Scholarships on the Institute of Petroleum Engineering's MSc course. These MSc scholars get the opportunity to complete their Master's thesis under the supervision of a Chevron petroleum engineer.

Heriot-Watt students have an excellent track record of securing employment with Chevron, building up a sizeable alumni group with strong links with the University.

To complement the impact the UPP has on the lives of individual students, Chevron also donates hundreds of essential course textbooks to 3rd year students in each discipline and provides support for membership of professional bodies (for example, the Institute of Chemical Engineers). Students, both continuing and graduating, also benefit from a series of Chevron academic prizes – rewarding excellence and ability – both individually and in group projects.

UPP makes its mark on the infrastructure of other departments too, by funding capital projects in the Schools. This has included major refurbishments of labs and workshops, the purchasing of course-related equipment and other improvements to facilities.

Cameron Rennie, a recent MEng Chemical Engineering graduate and former Scholar, is a success story of the programme. He commented, "I was thrilled to become a Chevron Scholar when I applied back in 2011 and benefitted so much both with the financial support and the relationship I built up with the company. 2014 was my final year and I'm pleased to say I have started working with Chevron after graduation and I'm very much enjoying it."

The relationship between Chevron and Heriot-Watt University stretches back over 30 years and covers recruitment, research and knowledge transfer. Chevron Upstream Europe, based in Aberdeen, is part of Chevron Europe, Eurasia and Middle East Exploration and Production Operating Company, one of four operating companies that comprise Global Upstream and Gas.

CUE employs over 1,000 staff and long-term contractors and has assets and exploration acreage in the UK, Denmark, Norway, Netherlands and Greenland.



*"Technology is a strategic differentiator for Chevron and we need talented individuals with strong teamwork and technical capabilities."*



'In Conversation' interview with

# Randa Hakim

***Heriot-Watt graduate Randa Hakim (MSc Construction Project Management, 2008) is the first female construction manager in Saudi Arabia. She talks to 'In Conversation' about the experience***

"I'm a civil engineer based in the UAE, working as a senior construction manager with General Electric (GE). The company has had a long presence in Saudi Arabia, so it was exciting to create the country's first Innovation Centre."

Randa is the first woman to project manage a major build in the country: "It came with a lot of pressure because the project was very fast tracked - we started execution when the design was only 60% complete! I oversaw all aspects of the project, managing everything inside Saudi. It was a challenging, fascinating and truly rewarding experience for me."

As she's worked on a variety of complex builds, in Egypt, USA and the UAE, Randa was prepared for the demands of such a major construction project: "I'm lucky that I work well under pressure and tend to see challenges as opportunities. The construction sector can be tough, and being a woman brings further challenges, especially in terms of on-site management."

She admits it felt pioneering to be the first woman project manager to operate in Saudi Arabia, but that it wasn't the central issue for her: "When you are single-mindedly devoted to a project, while there may be obstacles in your path, you find ways to overcome them, regardless of whether you are breaking new ground as a woman or not. I learned a lot of lessons and grew my expertise. Saudi Arabia is a developing construction market and many processes and procedures had to be established before we could move the project forward. I was organising workflows, determining the risks, and mitigating them, while we were executing the build, and it all took place within a particularly tight time schedule. I discovered capabilities in myself that I wasn't even aware of! It's completing a project of this scale that makes me particularly proud, and I would be very happy to work in Saudi Arabia again."

Randa completed her Bachelor's Degree in Construction Engineering at the American University in Cairo, gaining practical experience in engineering before taking her Masters at Heriot-Watt: "I chose Heriot-Watt because it was ranked 5th in the world for engineering, and was opening a branch in the UAE where I was based. I researched the University and realised I wanted to be a graduate of one of Edinburgh's famous schools!" Interestingly she had initially thought she would pursue a career as a doctor: "My parents are physicians but I realised I didn't have the stomach for it! Some of my relatives felt I had the right personality to go into engineering and encouraged me to pursue it as a career. I'm glad I followed their advice."



***When you are single-mindedly devoted to a project, while there may be obstacles in your path, you find ways to overcome them, regardless of whether you are breaking new ground as a woman or not.***



Scottish Judo's National High Performance Coach, David Sommerville, graduated from Heriot-Watt with a BA in Management after receiving a Sports Scholarship. He went on to win silver at the 2002 Commonwealth Games in Manchester, and helped plan Scottish Judo's assault on Glasgow in 2014. To find out more about the man behind the team, visit <http://thewattclub.hw.ac.uk/magazine/>

# A Hit for the Sensei

*After the first day of the Commonwealth Games in Glasgow, had Heriot-Watt University been a country it would have sat 7th in the medals table, ahead of Wales, Northern Ireland and South Africa. This was down exclusively to three of our Sports Scholarship students taking Judo by storm.*

Lisa Kearney, studying Psychology and competing for Northern Ireland took Bronze, Kelly Edwards, also studying psychology took silver for England, and Stephanie Inglis, studying International Business took silver for Scotland.

"The Commonwealth Games was a fantastic experience and I'm delighted to have been a part of it" said Lisa. "To come away with Team NI's first medal of the games and be a part of Heriot-Watt's medal haul of 3 on day one was an honour."

The thrill was also present for Stephanie "It was so loud I couldn't even hear my name being called out. My close friends had a banner reading 'Judo n't know who you're messing with!' which made me laugh."

The Sports Scholarship scheme is supported by our graduates, along with the Sports Union and the Centre for Sport and Exercise. Designed to support students reading any subject at Heriot-Watt, it allows promising athletes to split their time between studying and training, giving them the best of both worlds.

Kelly said "Winning my silver medal at the CWG in Glasgow was a great experience and a memory I will always treasure. I would like to thank everyone at Heriot-Watt for their support and a special thank you to the Sports Scholar support programme - without the academic flexibility prior to competing, my training schedule would have been nowhere near as effective."

Lisa is thrilled with her experience on the programme so far. "To the Sports Scholarship programme at Heriot-Watt, a special thank you for their support over the years allowing me the flexibility to combine my studies with my sporting career that helped me reach the Commonwealth Games and achieve on the day."

The Games also saw a success from former Sports & Exercise Science student and Sports Scholar swimmer Michael Jamieson, who took home a silver in the men's 200m breaststroke.

*Congratulations to all our Sports Scholars and graduates who took part in the games:*

**Patrick Dawson,**  
*Accountancy*  
finished fourth in the Under 73KG Judo

**Craig McNally,**  
*Accountancy*  
finished fifth in the 200m Backstroke and seventh in the 100m Backstroke

**Kathryn Johnstone,**  
*BSc Sport & Exercise Science*  
finished sixth in the 50m Breaststroke and reached the semi-finals in the 100m Breaststroke

**James Johnstone,**  
*MA Business Management*  
was in the Scottish Rugby Sevens team which reached the quarter finals before losing to the winners South Africa

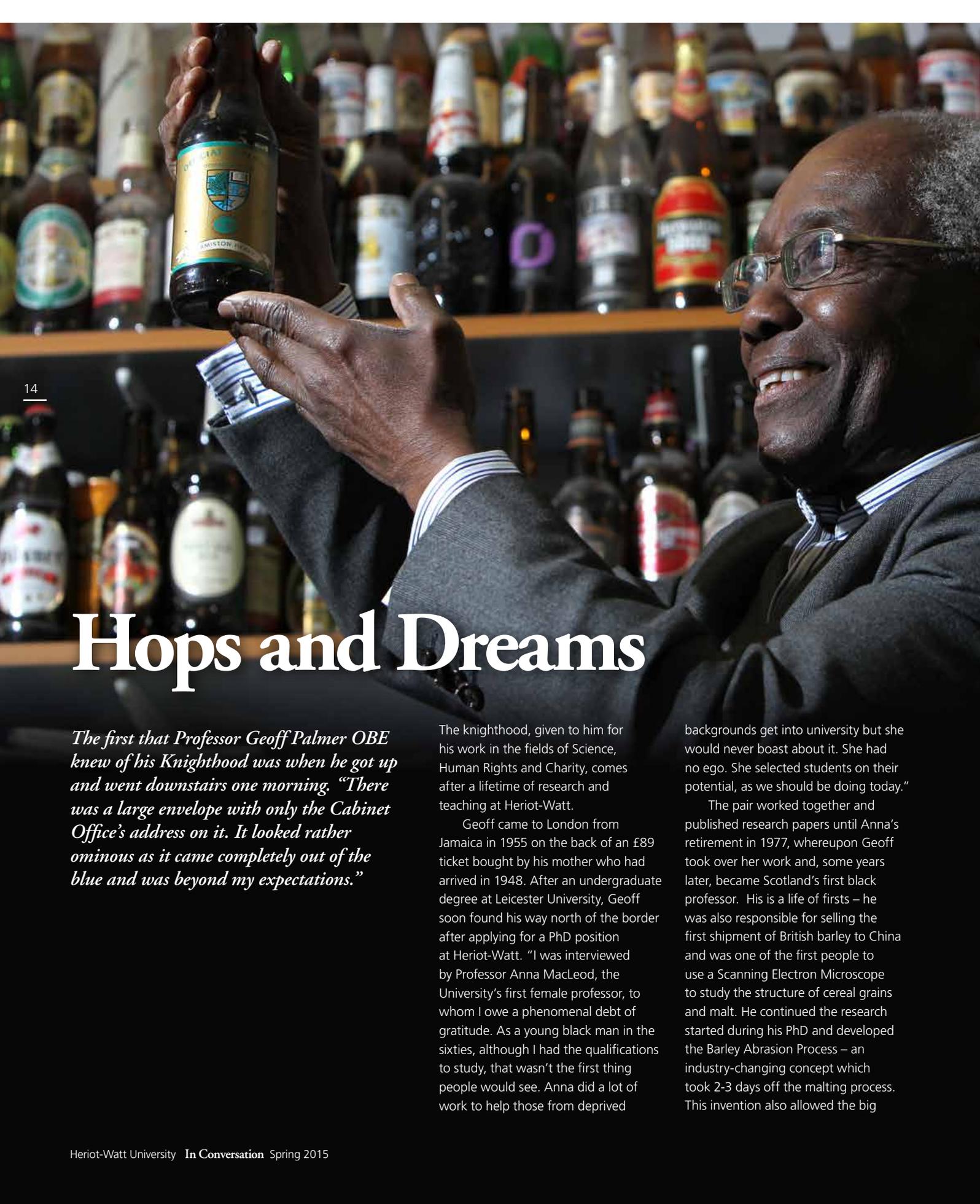
**Craig Benson,**  
*MEng Chemical Engineering*  
finished fourth in the 100m Breaststroke and seventh in the 4x100m Medley

**Colin Gregor,**  
*MPhil (Management)*  
was in the Scottish Rugby Sevens team which reached the quarter finals before losing to the winners South Africa

**Seonaid McIntosh,**  
*MEng Mechanical Engineering*  
finished nineteenth in her qualification round in the Small Bore Rifle – 10m Air Rifle

**Lee Jones,**  
*BEng Mechanical Engineering, 2011*  
was in the Scottish Rugby Sevens team which reached the quarter finals before losing to the winners South Africa

**Jamie Bowie,**  
*MA International Management & Languages, 2011*  
finished fifth in the final of the 4x400m breaking the Scottish record



# Hops and Dreams

*The first that Professor Geoff Palmer OBE knew of his Knighthood was when he got up and went downstairs one morning. “There was a large envelope with only the Cabinet Office’s address on it. It looked rather ominous as it came completely out of the blue and was beyond my expectations.”*

The knighthood, given to him for his work in the fields of Science, Human Rights and Charity, comes after a lifetime of research and teaching at Heriot-Watt.

Geoff came to London from Jamaica in 1955 on the back of an £89 ticket bought by his mother who had arrived in 1948. After an undergraduate degree at Leicester University, Geoff soon found his way north of the border after applying for a PhD position at Heriot-Watt. “I was interviewed by Professor Anna MacLeod, the University’s first female professor, to whom I owe a phenomenal debt of gratitude. As a young black man in the sixties, although I had the qualifications to study, that wasn’t the first thing people would see. Anna did a lot of work to help those from deprived

backgrounds get into university but she would never boast about it. She had no ego. She selected students on their potential, as we should be doing today.”

The pair worked together and published research papers until Anna’s retirement in 1977, whereupon Geoff took over her work and, some years later, became Scotland’s first black professor. His is a life of firsts – he was also responsible for selling the first shipment of British barley to China and was one of the first people to use a Scanning Electron Microscope to study the structure of cereal grains and malt. He continued the research started during his PhD and developed the Barley Abrasion Process – an industry-changing concept which took 2-3 days off the malting process. This invention also allowed the big



brewers to produce most of their own malt. He was the first European, and the fourth person ever, to be awarded the distinguished research award of the American Association of Brewing Chemists in 1998.

However, in the late 1980s, the threat of closure of the brewing department loomed and this was an axe Geoff did not want to see fall. "So one morning, without telling anyone, I went to meet Ronnie Martin, the Production Director of United Distillers (now Diageo Scotland) to see if he could help. He felt the department was a Scottish institution with an international history and eventually persuaded the Scotch Whisky Association to donate £1million to develop the brewing department and, off the back of that, we secured another £300,000 from the brewing industry. With marketing input from industry, an undergraduate degree in brewing emerged, associated with strong post-graduate degrees. Since that time brewing at Heriot-Watt has developed significantly with the help of many people." The International Centre for Brewing and Distilling, as it was named, is now celebrating its 25th Anniversary.

Since retirement, Geoff has been busier than ever, especially through delving into the fascinating history of Scotland's involvement in British slavery and how it created links with

Jamaica. "Scotland played a significant part in this slavery. It's a subject that isn't well taught in schools, but Scots were the owners of some of the biggest sugar and coffee plantations in Jamaica and prospered during this slavery. Indeed, had Robert Burns' book of poems not met with immediate acclaim, he had plans to travel to Jamaica in 1786 to become a manager on a slave plantation."

To further emphasise these historical links, Geoff said he received two phone-calls at Christmas from Glasgow. "One Glasgow was in Scotland, fifty miles away, the other in Jamaica, 5,000 miles away. It was raining and cold in both!"

Geoff's life has been one of overcoming racism, prejudice and barriers to progression. His unique work to further knowledge in cereal science and brewing, his efforts to strengthen Scottish/Caribbean links and his dedicated community work stand as inspiration to all students and alumni of Heriot-Watt to continue breaking new ground. His view is that, "Innovation is what we need to progress. We must know what we can and use what we know to innovate."



**Innovation is what we need to progress. We must know what we can and use what we know to innovate.**



# Donald Brothers: *Conserving the Design*



*Heriot-Watt's Heritage and Information Governance team has now completed the first stage of a large project to conserve, rehouse and photograph the large fabric samples from Dundee firm Donald Brothers.*

Donald Brothers was one of the leading Scottish firms designing and manufacturing furnishing fabrics in the 20th century. Growing out of the jute industry, the firm initially produced canvases for sacks and sails but by the 1890s had moved into making textured canvases and figured linens for furnishings. The firm was highly regarded for the quality of their fabric and used leading designers such as Marion Dorn, Robert Stewart, Eva Crofts and Marian Mahler.

The collection is held as part of the wider Textile Collection at the Scottish Borders Campus in Galashiels and includes pattern books, woven and printed fabric samples, photographs and publicity material from 1896-2010.

The large loose fabric samples had been stored folded on open shelves for many years and as a result had deeply embedded dirt and creases, damaging the fabric. With grant funding from the Esmée Fairbairn Trust and Museums and Galleries Scotland, over half the 700 samples have been cleaned and flattened by a conservator.

The samples show a great range of genre such as arts and crafts, modern, futuristic and traditional designs, and provide students with design inspiration.

The Textile Collection, which also include designs by Bernat Klein, are available for research at the Scottish Borders Campus by appointment.

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Email [heritage@hw.ac.uk](mailto:heritage@hw.ac.uk) or call 0131 451 3218, look at the on-line catalogue <http://www1.hw.ac.uk/archive/index.htm> or follow us on Facebook or Flickr.

# Heriot-Watt University Malaysia

18 *Heriot-Watt's new Malaysian campus is now open for business.*

**Set in picturesque surroundings in Putrajaya, Malaysia's federal administrative centre just south of Kuala Lumpur, the first new students were welcomed to the campus in September 2014.**

The £35 million development is the first purpose-built, green campus to be created in the country. It consists of a state-of-the-art teaching and learning environment on 4.8 acres in a stunning lakeside location, part of Putrajaya Lake's 'green continuum'.

A notable feature is the green roof: the first living grass roof of its kind in Malaysia it shades the naturally ventilated spaces below, reduces thermal transmittance, and acts as an observation deck, accessible by glass lift. Other environmentally friendly design features include campus lighting 'powered' by the maximum use of natural daylight, a rainwater harvesting system and optimised air-conditioning and thermal control systems.

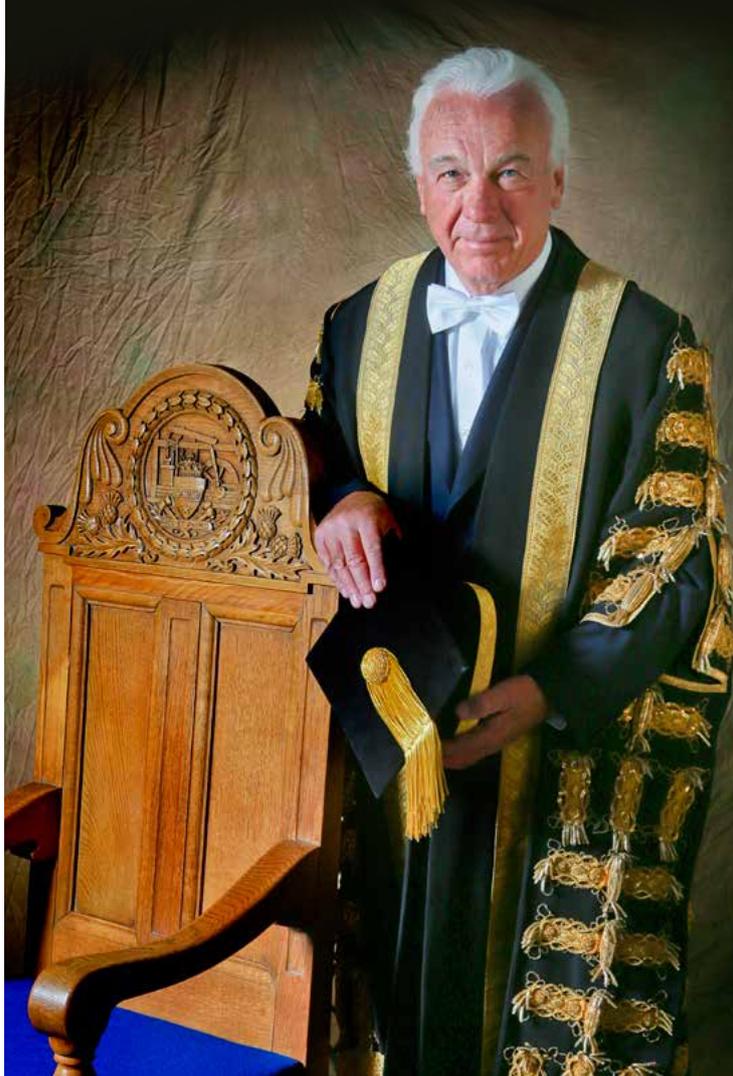
Programmes of study include undergraduate courses in Petroleum Engineering, Actuarial Science and Construction Project Management. Postgraduate courses include Business Psychology, Quantity Surveying and MBAs.



TO FIND OUT MORE, PLEASE VISIT  
[www.hw.ac.uk/malaysia](http://www.hw.ac.uk/malaysia)

# Getting to know Heriot-Watt's Chancellor

*Dr Robert Buchan is an international businessman, entrepreneur and philanthropist. After graduating from Heriot-Watt in Mining Engineering in 1969, he went on to found a number of highly successful mining companies. In 2013 he became the University's new Chancellor.*



## Q&A

### **Q Where does your entrepreneurial spirit come from?**

**A** "I think so much in life is serendipitous. You don't choose to be an entrepreneur: rather you reach a point when you realise you are one. I met people; I chanced across opportunities; I had moments of insight; and they pulled me along a path that led to my success but I never thought about becoming an entrepreneur. But once you've started to make things happen you're always wondering what you might be able to achieve next and setting yourself another mountain to climb. I guess that is the entrepreneurial spirit - it continually drives you to do more, to see what's possible."

### **Q Did you have a mentor?**

**A** "Yes, two people stand out for me who changed my outlook. Colin Whitlock - who was at the forefront of the electronics revolution in the 1960s and devoted much of his business life to improving vocational opportunities for young people, serving on the board of Carnegie, then Lauder Technical College, for over fifteen years. He showed me what was possible if you were prepared to work hard. And Ned Goodman, President and Chief Executive Officer of Dundee Corporation, from whom I learnt the art of the deal, how to finance projects, and the importance of giving back."

**Continued >**

**Q Who inspires you?**

**A** "Canadian businessman, Seymour Schulich, has been a key inspiration. He is among Canada's greatest philanthropists having donated in excess of \$200 million to universities, libraries, medical health centres, and the arts. How Seymour thinks about education, obligation and what wealth is for, has been really important for me."

**Q Tell us more about the idea of "giving forward rather than giving back"?**

**A** "Seymour's approach has fed into my own beliefs about the obligations that come with success. The idea of 'giving forward' is about empowering the next generation and creating opportunities for others to succeed. Financing education and research is part of this, but inspiring graduates to be informed leaders in whatever they do is also really important. That's why I gave out over 1,000 copies of Malcolm Gladwell's book 'Outliers' at my Heriot-Watt Honorary graduation and at the graduation ceremony at Carnegie College because I think he has so many useful insights."

**Q How can the next generation of graduates change the world?**

**A** "I think it's important to develop an understanding of the impact your business makes across all levels: industrial, environmental, societal. Building awareness, developing insight and understanding the global picture, all underpin success. You need to be responsive and think about the three 'Ts': Time, Talent, Treasure – you have an obligation to share and give back one or all of these."

**Q How do you relax (do you even have time to relax)?**

**A** "One of the benefits of a lot of experience is that you can make decisions quickly. I can review a business proposal and make a speedy decision about its viability. So that gives me greater control over my own time. Wood turning is one of the ways I like to relax: it is a wonderful, calming counterpoint to my work. The life of a CEO can be very frustrating – it's constant crisis management with no beginning or end, just movement from one problem to the next. With wood turning I can go into the workshop and produce something tangible, a finished product, and that's very satisfying."

**Q What's your favourite place in the world?**

**A** "I've travelled a lot and been fortunate to visit many countries but without a doubt my favourite place in the world is the Muskoka Lakes in Canada. A really beautiful area, remote and wild, there's nowhere else quite like it."

**Q What's the difference you would really like to make?**

**A** "As Chancellor for Heriot-Watt I want to help the University to succeed in every way it can. I see my role as supportive rather than strategic: to help it maintain its high rankings, to achieve its financial goals, to build relationships with donors and governments. But I also want to inspire students and to support them to be effective and successful in their chosen career paths."

**Learn how serendipity played a role in Dr Robert Buchan's career journey at <http://thewattclub.hw.ac.uk/magazine/>**

# Making a significant contribution to energy sustainability



Confirming his belief that giving forward is preferable to giving back, Dr Buchan set up a Chair in Sustainable Energy Engineering to, in his own words, "Focus attention on research and study in an area which, it is my hope, will keep Scotland at the forefront of this rapidly evolving discipline". Professor Mercedes Maroto-Valer is the University's appointment.

*Professor Mercedes Maroto-Valer, the University's first holder of the Robert M Buchan Chair in Sustainable Energy Engineering, is pioneering innovative technology to tackle climate change: "We're looking at the whole problem of carbon capture, transport, storage and further use, and developing a total solution that can be integrated into existing energy generation facilities. Our technology aims to turn a climate-changing gas into a climate-saving fuel."*

Working at the challenging interface between energy and the environment, Professor Maroto-Valer is unequivocal about the importance of team work: "We are a very diverse and multinational team and represent a wide range of disciplines including chemical engineering, chemistry, environmental science, and petroleum engineering. The team comes from Scotland, the US, Canada, Nigeria, Spain, Italy, Greece, Malaysia, China and Taiwan. It's this mix which makes it possible to tackle the complexities that exist across the entire carbon capture and storage chain, from the isolation of the carbon dioxide from other gases, to its transportation and safe storage in geological formations.

Together we have the expertise and capability to approach this major problem holistically, and to even look at how to convert CO<sup>2</sup> into something useful, such as a new, carbon-neutral fuel. It's very exciting that we can work in this way."

Leading this team to make ground breaking discoveries, Professor Maroto-Valer explains that it's essential to develop an environment where people feel empowered to explore ideas: "Researchers need to have the time to build towards eureka moments, and once achieved, to receive the support to follow a discovery up. It's also important that we bounce ideas off one another and share our different perspectives on the problem because that's how we will continue to make breakthroughs."

The creation of the Centre for Innovation in Carbon Capture and Storage at the University will play a key role in helping her and the team achieve that goal: "Through the resources of the Centre we can make a significant impact. The wide range of support we have from research councils and other funders means we can work to accelerate the technological innovation needed for the wider take-up and use of carbon capture and storage. By 2030 we're going to need 50% more energy than we're using

now, and the Centre will help us to find a solution. What we want to achieve is a way to meet both our energy demands and our environmental targets."

Professor Maroto-Valer's commitment and contribution to this challenging goal, and to the chemical sciences and engineering more generally, has already been recognised with numerous international prizes and awards. In 2014 she received further recognition with a prestigious Fellowship to the Institute of Chemical Engineers (IChemE).

**Dr Buchan gave £1.3 million to Heriot-Watt University to fund a Chair in Sustainable Energy Engineering. He hopes it will keep Scotland at the forefront of this rapidly evolving discipline and enhance the University's already strong position in energy research and teaching.**

# Heriot-Watt's new Chair of Court on her aspirations for the future

*I am delighted to have taken over the post of Chair of the Court of Heriot-Watt. It is a challenge: I am not an academic by training - most of my career has been in journalism, mainly on The Guardian and The Economist. In a career switch ten years ago, I became head of Exeter College, founded in 1314 and part of Oxford University. As Oxford colleges are effectively workers' cooperatives, owned and managed mainly by their Fellows, I have worked closely and consultatively with academics for the past decade. I stepped down from the job in September 2014.*

It's great to be involved with such a successful Scottish institution. I spent most of my childhood in Glasgow, where my father was an economics professor at Glasgow University. My husband, the economic journalist Hamish McRae, was educated in Edinburgh, and we have a house in Galloway, though our main home is in London. I will spend many nights on the Caledonian sleeper!

The Court of the University is perhaps not a body widely understood by our alumni. Its members are drawn partly from the ranks of the University's senior academics, and partly from distinguished outsiders, many of them with experience in fields such as law and finance. There are two student members and representatives of the alumni community on the Court. The Court's role is similar to a board of directors in the commercial world, discussing and agreeing matters of governance and strategy. It approves the University's academic vision and mission, and acts to ensure that Heriot-Watt remains financially sustainable.

In approaching this demanding role, I am lucky to be taking over from Lord Penrose, who has been a shrewd

and sensitive Chair of Court for the past seven years. But I am unlucky to come as the University loses the skills and dynamism of the current Principal, Professor Steve Chapman. He has put Heriot-Watt on the map in many ways, including the establishment of the new campus in Malaysia and the successful bid for the National Performance Centre for Sport. We all wish him well as he moves to a new challenge in Australia.

So what can the head of a mediaeval Oxford college contribute to a successful University such as Heriot-Watt? I hope to achieve two things in the role. First, I would like to see the University continue to build its impressive research portfolio, raising its ranking in global league tables and attracting more top-quality academics to teach undergraduates and graduates. Secondly, I hope to expand the financial support that Heriot-Watt already receives from its warm and enthusiastic body of alumni, to create more student scholarships and even better student accommodation and study facilities. But first, I look forward to meeting as many alumni as possible in the years ahead!





# National Performance Centre for Sport



*In association with the City of Edinburgh Council, the £30 million National Performance Centre for Sport (NPCS) will bring world-class sporting facilities to our Edinburgh campus, including a Hampden replica pitch and a nine court sports hall.*

“The NPCS will support athletes to develop their full potential, growing the number of homegrown athletes, officials and sporting experts at the highest level of sports,” says Catriona McAlister, Head of Sport & Exercise at Heriot-Watt and Director of the NPCS. “By creating inspirational performance facilities and supporting this with excellent support services we will establish a cutting edge environment where performance becomes the sole focus of the athlete.”

The right to host the centre was won with the support of many of our graduates and honorary graduates who backed the bid, including Olympians Sir Chris Hoy and Sir Steve Redgrave, rugby legend Gavin Hastings, footballer Michael Stewart, Formula One supremo Jock Clear, businessman Sir Stuart Rose and Paralympian Baroness Tanni Grey-Thompson. Additionally, nearly five thousand members of the public backed the bid online.

“I would like to thank everyone who has been involved in our bid, at Heriot-Watt, at the City of Edinburgh Council and all of our external partners, consultants and backers. Our real reward, however, isn't winning the bid, but will come when the Centre is up and running and we can see it making a real difference to Scotland's sporting future.” Professor Steve Chapman.

**The NPCS will support athletes to develop their full potential, growing the number of homegrown athletes, officials and sporting experts at the highest level of sports.**

To find out more about the National Performance Centre for Sport, please visit [www.goedinburgh2016.com](http://www.goedinburgh2016.com)



## New Professor of Exploration Geoscience talks about exciting developments at Heriot-Watt

*Professor John Underhill has been fascinated by geology for as long as he can remember. "It all started in school when I developed a consuming interest in maps and my parents gave me a geological map of the Isle of Wight. I took myself off to walk part of its eastern coast line and as I did so, I saw how the island's landscape reflected what rock type lay buried below. It ignited my passion for geology and a desire to understand how the Earth's subsurface geology molds its land surface."*

From that early interest Professor Underhill has developed into a world leading geoscientist. After a PhD integrating Geology and Geophysics, he joined Shell before moving to the University of Edinburgh as a lecturer. "I progressed to Professor of Seismic and Sequence Stratigraphy at the Grant Institute of Geology and was fortunate to have secondments at BP and Norsk Hydro, through which I experienced the latest applied technologies in geoscience. I developed a particular expertise in the field of seismic interpretation and this has brought me to the Institute of Petroleum Engineering at Heriot-Watt, where I am working to build up its Geoscience capability."

Though he only joined the University in 2013, Professor Underhill is already demonstrating the aspirations of the University's 'Global Platform' initiative, which brings leaders in their field to spearhead ground-breaking research. He has played a leading role in major new initiatives including the Centre for Exploration Geoscience Research, funded by Shell, and the Sir Charles Lyell Centre for Earth and Marine Science and Technology in partnership with the British Geological Survey (BGS). "It's inspiring to be part of a world-leading research cluster. The new centres I'm involved with are deploying the latest technologies, data and industry insights to further our understanding of major petroleum systems, and to tackle key issues of natural resource and energy supply in a responsible and sustainable way. There's a great synergy happening here which is allowing me to develop Geoscientific Research and Training in new and exciting ways."

Professor Underhill is also passionate about supporting the next generation of exploration geoscientists and led an innovative bid to establish a Centre of Doctoral Training (CDT) in Oil & Gas: "The Centre brings together seven core partners - Heriot-Watt, Imperial College London, Aberdeen, Oxford, Durham and Manchester universities and the BGS - and a further 12 associate partners from across the UK. It's a new model that is fully supported by the Natural Environment Research Council. It offers a real breadth of knowledge and expertise so that doctoral students will gain a deep understanding of the oil and gas industry across all its different aspects including environmental awareness. It will ensure they can make an impact and build the UK's national earth, environmental and marine science capability."

In between leading these major developments, he's helped to name one of the Centres as well. "I thought Sir Charles Lyell was the obvious choice because he was the foremost geologist of his day, helping to establish Geology as a serious science. He wrote the 'Principles of Geology' - a highly influential and popular text that influenced the likes of Sir Charles Darwin, who was guided by its content on his voyages. But what also makes his name highly appropriate is that he married Mary Horner, whose father, Leonard Horner, was the founder of the college which eventually became Heriot-Watt."

## The Lyell Centre for Earth and Marine Science and Technology

*Heriot-Watt University and The British Geological Survey (BGS) are joining forces to create The Lyell Centre for Earth and Marine Science and Technology.*

The Lyell Centre is a £20m capital project that will see Heriot-Watt University and the British Geological Survey form a new strategic research partnership to tackle the most critical challenges facing mankind today; meeting the energy demands of a rising global population whilst safe-guarding the health of the Earth's surface, subsurface, oceans and atmosphere.

By bringing together leading researchers in the fields of Geoscience, Marine Science, Engineering, Computing and Mathematics, the Centre will play a key role in finding pragmatic solutions and providing evidence-based informed and reliable opinions in areas where inputs have traditionally been polarised.

There will also be a building next to the Centre supported by a £2m investment from The Natural Environment Research Council (NERC) to allow BGS to move its Marine Operations to campus.



An artist's impression of the new Lyell Centre

# Events

*Heriot-Watt University and Heriot-Watt's Development & Alumni Office run a range of events throughout the year. Here's a selection of the best bits.*



## Leadership Lecture with Formula 1's Dr Jock Clear

"The best leaders are those who can communicate well" said Dr Jock Clear, a Heriot-Watt Graduate and Honorary Doctor currently working as Senior Performance Engineer in Mercedes' Formula 1 team.

His Leadership Lecture, sponsored by Diageo, took an audience of over 300 through his time by the track, recounting stories with racing figures such as David Coulthard, Jacques Villeneuve and Lewis Hamilton. Supporting the event on the night were the team currently involved in Formula Student Racing, which allows students to design, build and race a car.

## The Simpsons at Heriot-Watt

Heriot-Watt University helped bring Simon Singh's 'The Simpsons and Their Mathematical Secrets' lecture to a sell-out crowd in Summerhall's Dissection Room as part of the Edinburgh International Science Festival.

The lecture, sponsored by Heriot-Watt, was a repeat of Simon Singh's highly successful appearance to deliver the talk at Heriot-Watt's Edinburgh Campus in 2013. The best-selling author and broadcaster explored how the mathematically gifted writers of the Simpsons cartoon smuggled mathematical concepts into their storylines.

## Watt Club London with Adam Crozier

The 42nd annual Watt Club London Dinner was held in the House of Lords and welcomed keynote speaker Dr Adam Crozier (BA Business Organisation, 1984 & Honorary Doctor of Letters, 2005), CEO of ITV plc. In conversation with Professor Steve Chapman, Dr Crozier answered questions from the floor during an entertaining evening.

## ICBD Chicago

Professor Alex Speers from the International Centre for Brewing & Distilling attended the Master Brewers Association of the Americas in Chicago, and met up with alumni for drinks.





## Queen's Baton Relay

The first Edinburgh leg of the Glasgow 2014 Queen's Baton Relay took place at Heriot-Watt University in the presence of Shona Robison MSP, Cabinet Secretary for Commonwealth Games, Sport, Equalities and Pensioners' Rights, The Rt. Hon. Donald Wilson, Lord Lieutenant and Lord Provost of the City of Edinburgh, as well as University Principal Professor Steve Chapman.



*To stay up to date with future events, you can follow us on social media, check out our website, and ensure your contact details are up to date by visiting [www.hw.ac.uk/alumni](http://www.hw.ac.uk/alumni)*

*Hong Kong  
Dubai  
Kuala Lumpur  
Malaysia*



## International Graduations

*As Heriot-Watt's international presence grows, so too does our alumni family throughout the world. Our graduation ceremonies happen all over the world, throughout the year, and we welcome every new graduate into our alumni community.*

Every November, the University international graduation tour takes in Dubai, Malaysia, Kuala Lumpur and Hong Kong, allowing us to meet and celebrate with our graduates there.

2013 was the first time the Chancellor, Dr Bob Buchan, Vice-Chancellor Prof. Steve Chapman and Chair of Court Lord George Penrose of Heriot-Watt had gone out together to these graduation ceremonies – and the first time the three together had experienced the amazing welcome each of our alumni groups give at their Annual Dinners.

2014 saw an equally generous welcome from our alumni, marking the final time Professor Chapman will be attending.





**Robin Angus,**  
*Executive Director of  
Personal Assets Trust Plc*



**Søren Asmussen,**  
*Professor of Applied  
Probability at Aarhus  
University (Denmark)*



**Alan Lind Bain,**  
*Lawyer,  
Chairman of American  
Scottish Foundation*



**Mark Birkbeck,**  
*Chairman and founder,  
The House of Bruar*



**Brenda Dulaney,**  
*Former President and  
Managing Director of  
Chevron Upstream Europe*



**Julie Fitzpatrick,**  
*Scientific Director,  
Moredun Research Institute /  
Chief Executive, Moredun Group*



**Anne Glover,**  
*Chief Scientific Adviser to  
the European Commission*



**Evelyn Hu,**  
*Gordon McKay Professor of Applied Physics  
and Electrical Engineering, Harvard School  
of Engineering and Applied Sciences*



**Luke Johnson,**  
*Chairman,  
Risk Capital Partners*



**Gavin Kennedy,**  
*Professor Emeritus at  
Heriot-Watt Edinburgh  
Business School*



**Mariot Leslie,**  
*British Ambassador / UK's  
Permanent Representative  
to NATO*



**Ian Mason,**  
*Professor Emeritus,  
Heriot-Watt University*



**Derek Mathieson,**  
*President, Western Hemisphere  
Operations of Baker Hughes  
Incorporated*



**Douglas Oakervee,**  
*Chairman of Laing O'Rourke  
Construction (Hong Kong)*



**Tony Pidgley,**  
*Chairman of The Berkeley  
Group Plc*



**Anne Richards,**  
*Chief Investment Officer and  
Head of the EMEA Region of  
Aberdeen Asset Management*



**James Simpson OBE,**  
*Architect,  
Vice President of  
ICOMOS-UK*



**Corrado Sommariva,**  
*Managing Director ILF  
Consulting Engineers (Dubai)*



**David Spiegelhalter,**  
*Winton Professor for the  
Public Understanding  
of Risk / Professor of  
Biostatistics, University  
of Cambridge*



**Richard Tait,**  
*Entrepreneur and  
founder of Cranium Inc*



**Gordon Ballard,**  
*Chairman,  
Schlumberger UK Ltd*



**Professor Alan  
Barclay,**  
*Governance Director,  
Europe Supply, Diageo*



**Professor  
Sue Bruce,**  
*Chief Executive,  
City of Edinburgh Council*



**Matt Fox,**  
*Executive Vice President,  
Exploration and Production  
ConocoPhillips*



**Trevor Garlick,**  
*Regional President,  
BP North Sea*



**Martin Gilbert,**  
*Co-founder and Chief  
Executive, Aberdeen Asset  
Management PLC*



**Louise Martin,**  
*Chair,  
sportscotland*



**Kate Mavor,**  
*Chief Executive,  
National Trust for  
Scotland*



**Dr Judith McClure CBE,**  
*Former Head of St George's  
School, Edinburgh*



**Professor Stuart K  
Monro OBE, DUniv, FRSE,**  
*Scientific Director, Our  
Dynamic Earth*



**Professor Ragnar  
Norberg,**  
*Laboratoire SAF,  
University of Lyon*



**Dr Ceri Powell,**  
*Global Head of  
Exploration,  
Royal Dutch Shell*



**Freya Ross,**  
*Scottish Long Distance  
Runner*



**Sean Tompkins,**  
*Global Chief Executive,  
RICS (Royal Institution  
of Chartered Surveyors)*



**Dr Liu Zhenwu,**  
*Senior Advisor,  
Advisory Center, China National  
Petroleum Corporation (CNPC)*

# Annual Fund 1995-2014



TOTAL GIFT AMOUNT

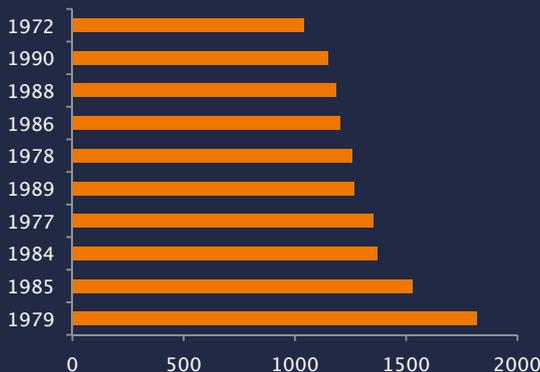
# £908,096

## MOST DONORS PER AREA OF STUDY (TOP 3) 2009 / 2014

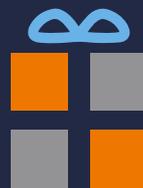
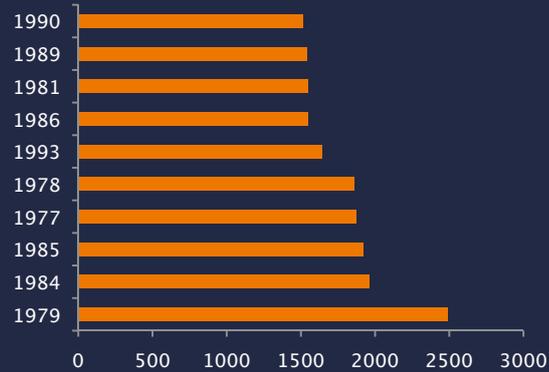
<i>Pri Edu Dte</i>	<i>Total 2009</i>	<i>Total 2014</i>
Civil Engineering	2948	4266
Electrical and Electronic Engineering	2510	3702
Mechanical Engineering	2028	3103



## MOST DONORS PER YEAR GROUP (TOP 10) 2009



## MOST DONORS PER YEAR GROUP (TOP 10) 2014



# 1979

MOST GIVING YEAR GROUP

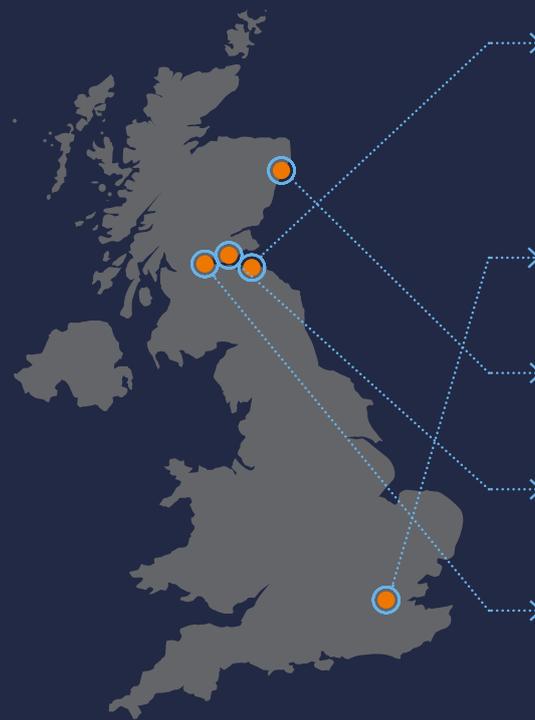
TOP 3 MALE AND FEMALE NAMES

Male



2009	James	1366
	Robert	1310
	John	1295
2014	John	2199
	David	2169
	Robert	2036

MOST DONORS PER TOWN (TOP 5)



**1st** Edinburgh

2009: 5473

2014: 9183

**2nd** London

2009: 1198 2014: 2072

**3rd** Aberdeen

2009: 996 2014: 1853

**4th** Dunfermline

2009: 971 2014: 1255

**5th** Falkirk

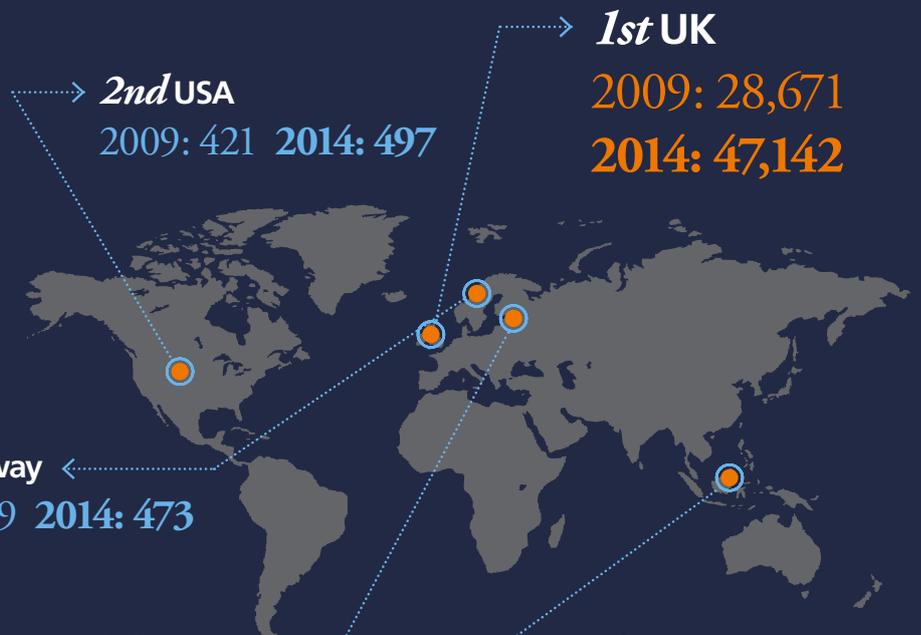
2009: 889 2014: 1222

Female



2009	Fiona	533
	Susan	455
	Jane	341
2014	Fiona	749
	Susan	583
	Jane	457

MOST DONORS PER COUNTRY (TOP 5)



**1st** UK

2009: 28,671

2014: 47,142

**2nd** USA

2009: 421 2014: 497

**3rd** Norway

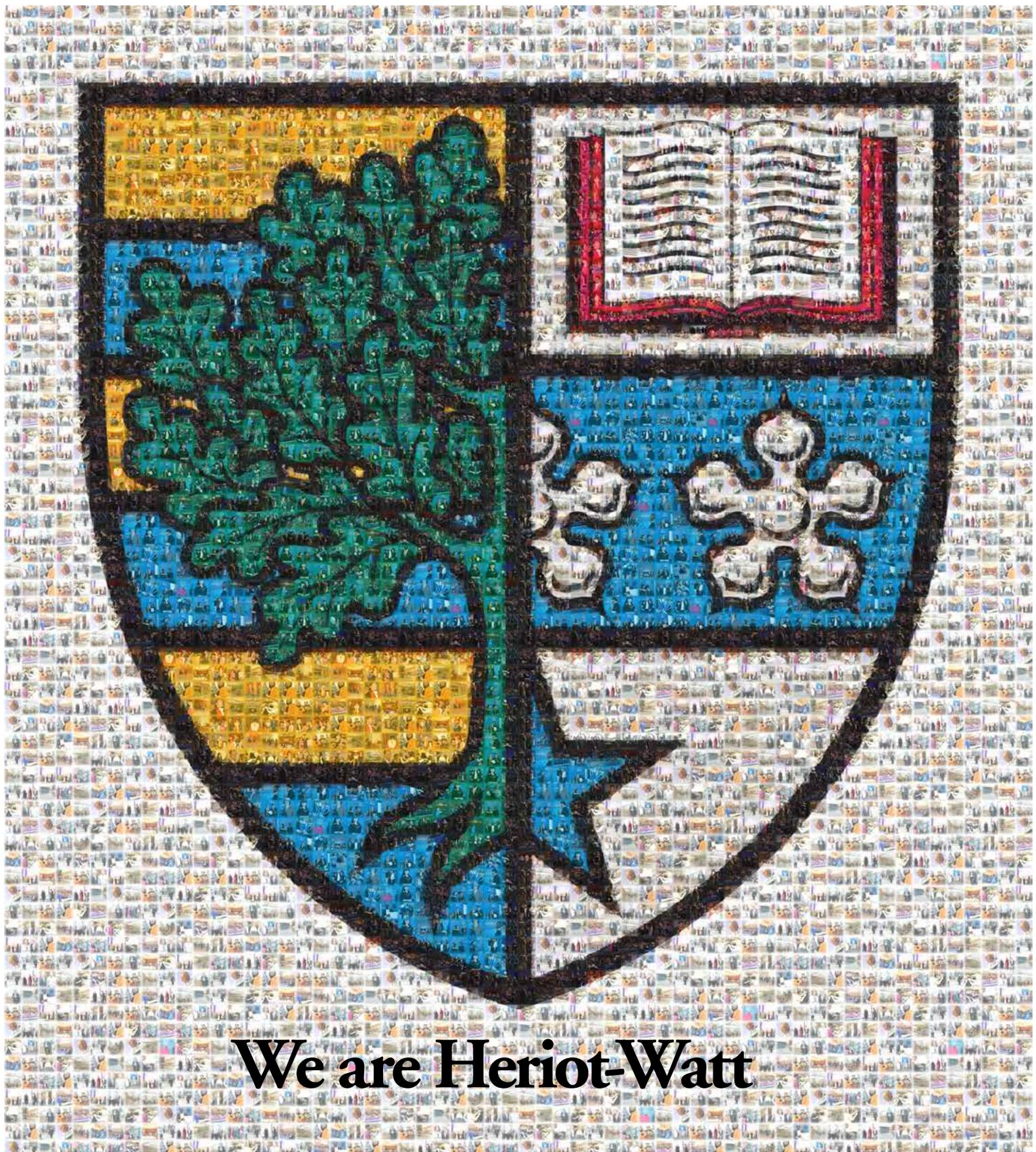
2009: 419 2014: 473

**4th** Estonia

2009: 174 2014: 240

**5th** Brunei

2009: 172 2014: 232



**We are Heriot-Watt**

**#HWUgrads**

*Let's stay in touch. Update your contact details at*  
**[www.alumni.hw.ac.uk/login](http://www.alumni.hw.ac.uk/login)**