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2014 Highlights

Research Intensification

• Heriot-Watt has risen to 33rd position in the UK in the 2014 Research Excellence Framework (REF) outcomes, compared with 45th in 2008
  > In terms of 3* and 4* gradings Heriot-Watt is ranked 22nd in the UK and 3rd in Scotland
  > In terms of the new Impact gradings Heriot-Watt ranks 22nd in the UK and 2nd in Scotland

• Current grants and contracts portfolio valued at £120 million

• New Doctoral Training Centres led by the University established to support Autonomous Systems/Robotics; Applied Photonics; and Oil and Gas

• 112 new Research Leaders recruited through our ‘Global Platform’, 600 PhD/EngD research students and 150 Postdoctoral Research Staff

• New School of Energy, Geoscience, Infrastructure and Society (EGIS) created

• More than 80% of staff carrying out research at internationally recognised levels in Edinburgh, Orkney, Scottish Borders and Dubai Campuses

Heriot-Watt University Malaysia opened in September 2014

An artist’s impression of the new National Performance Centre for Sport due to open in 2016
Student Experience

- Ranked in the top 4% of world universities
- The Guardian University Guide 2014 placed us 13th in UK and 2nd in Scotland
- Ranked top in Scotland for seven subjects by the National Student Survey 2014
- 52nd in the Times Higher’s ‘100 under 50’ World University Ranking and 7th in the world and 2nd in the UK for International Mix
- Three year partnership agreement with Santander Universities Global Division

Enabling Strategies

- iHR – University’s HR system launched
- New global careers database ‘Going Global’ available to all students
- Customer Relationship Management system for student recruitment established
- New student survey system in place
- 24 participants in the Aurora Programme - a female leadership development programme

Internationalisation

- £35 million Heriot-Watt University Malaysia Campus opened
- 32,000 students studying worldwide
- 35% of students on campus in Scotland are from outside the UK
- Scottish Confucius Institute for Business and Communication opened
- Awarded “Outstanding Overseas Partner University” from the Chinese Service Centre for Scholarly Exchange
I am delighted to report that 2014 was another strong year for Heriot-Watt University. We continued to grow and develop, extending our international reach and improving our rankings in the all-important league tables.

RESEARCH INTENSIFICATION

It is a great accolade to everyone within Heriot-Watt that we made major progress in the REF 2014 results and are now firmly placed with the UK’s best in our core disciplines. We have risen to 33rd position in the UK on grade point average compared with 45th in 2008 - a truly excellent outcome.

Key developments which support our research intensification include the creation of a new School of Energy, Geoscience, Infrastructure and Society which will generate significant research opportunities for the Institute of Petroleum Engineering and across our Built Environment activity. The Lyell Centre, a world-leading hub for fostering research in earth and marine technology, created through a partnership with the British Geological Survey, begins construction in January 2015.

We have continued to secure significant funding for developing the next generation of world-leading researchers. Six of the oil industry’s biggest names are supporting our new Centre for Doctoral Training (CDT) in Oil and Gas, which will deliver people with the skills and training that industry requires. The University also benefitted from part of £83.5 million of funding announced by David Willetts, Minister for Universities and Science, for Postgraduate training, which will help us to attract and support the best students in their fields.

Our Global Platform initiative, introduced in 2010, has been particularly successful. We now have 112 new research leaders working with 600 PhD/EngD research students and 150 Postdoctoral research staff. More than 80% of staff are involved in research at internationally recognised levels at our Edinburgh, Orkney, Scottish Borders and Dubai Campuses.

IMPROVING LEARNING AND TEACHING AND THE STUDENT EXPERIENCE

The University is ranked in the top 4% of world universities. This year the influential Guardian University Guide placed us 13th in the UK and 2nd in Scotland. We had a very positive performance in the rankings for many subject areas: The Sunday Times and Times University Guide placed five of our subjects and the National Student Survey (NSS) and The Guardian Guide ranked eight of them in the UK’s top ten. Chemical Engineering was ranked top in the UK for the fifth year running and Electrical Engineering also rose to first place.

Overall satisfaction with the experience at Heriot-Watt continues to be high. The NSS found 82% of students were satisfied, which placed us 3rd in Scotland and 39th in the UK. At least 90% of students were satisfied overall with their course in 11 of our 17 subject areas. These results reflect the sustained effort and dedication of colleagues and I would like to thank all the students who took part in the survey. Our response rate of 83% is the highest in Scotland and a confirmation of the continued support and recognition of our students. Heriot-Watt is also recognised by the Times Higher’s ‘100 under 50’ World University Ranking for our International Mix placing us 7th in the world for this aspect of the University and 52nd overall.
DEVELOPING INTERNATIONALISATION

We continue to grow our international profile and the number of students studying with us worldwide is now 32,000. In September we opened our £35 million Malaysia Campus: a purpose-built, state-of-the-art learning environment which is another major step towards meeting our ambitious strategic goal to approximately double the scale of international activities over the next five years. We launched PhD programmes at our Dubai Campus and have begun to offer inter-campus transfers between our programmes to help more students experience an international dimension to their studies.

We officially opened our Scottish Confucius Institute for Business and Communication during the year which will promote greater shared understanding between Scotland and China and encourage mobility between Chinese and local students, building their exposure to business language and culture.

ENABLING STRATEGIES

Underpinning our strategic targets are our enabling strategies. This year sees us reporting one of our best financial performances, which will allow us to progress our vision and the delivery of practical projects that enhance our capability. We have also introduced a range of new systems, encompassing HR and student engagement.

Progress on the National Performance Centre for Sport continued with the appointment of contractors, Bowmer and Kirkland. It seemed appropriate that as we move towards the creation of a world-class sporting facility on our Edinburgh Campus that we hosted the first Edinburgh leg of the Queen’s Baton Relay to celebrate the Commonwealth Games coming to Scotland. I was delighted to hand the baton to local school pupil Cameron Finlayson who set it on its journey across the city.

I now have my own ‘baton’ to pass on as I will be leaving the University in the near future. I would like to extend my heartfelt thanks to all staff and students, and to many external partners, for their commitment and hard work during this past year and throughout my tenure as Principal. I have been very proud to serve the University and I am delighted by its continuing progress as a leading institution. I am convinced it will continue to deliver on its strategic goals and confident that the new Principal, with the support of the highly professional Management Board team and University Court, will steer Heriot-Watt successfully into the future and see it continue to flourish and maintain its place as a world-renowned university.

Professor Stephen K Chapman
Principal and Vice Chancellor
BRITISH GEOLOGICAL SURVEY WILL RELOCATE TO NEW SIR CHARLES LYELL CENTRE

Progress on the creation of the new £20 million Sir Charles Lyell Centre has continued and an artist’s impression has been released illustrating how the Centre will look on the University’s Edinburgh Campus. The Lyell Centre will be one of Europe’s leading centres for research and expertise in the earth and marine sciences.

The new Centre will bring together world-leading expertise from the British Geological Survey (BGS) and Heriot-Watt University in a common enterprise. The BGS, a component body of the Natural Environment Research Council (NERC), is the nation’s principal supplier of geological expertise and information for decision making at governmental and commercial levels. Commenting on the BGS relocation, Professor John Ludden, Executive Director of the British Geological Survey, said: “I view the creation of the new Centre as an extraordinary opportunity to broaden our science base by partnering in key areas with Heriot-Watt University, in particular in geology and geophysics related to energy, urban renewal and the sea-floor.”

Professor Duncan Wingham, Chief Executive of NERC, commented: “NERC has been extremely impressed by the enthusiasm and commitment of both the British Geological Survey and Heriot-Watt University to a shared vision for a national centre of innovation.”

BGS will move its Edinburgh offices to the new purpose-built centre when it opens in 2016.

HERIOT-WATT CLIMBS LEAGUE TABLES

Guardian University League Tables
Heriot-Watt continued to climb the university league tables rising to 13th place out of 116 institutions in the new Guardian university league tables, up from 18th position last year. The ranking places Heriot-Watt second in Scotland.

In the subject area tables, the University was ranked top in the UK for Chemistry (up from 2nd last year) and Civil Engineering (up from 3rd). Heriot-Watt is also in the top five in the UK for: Accounting and Finance (2nd); Building and Town and Country Planning (2nd); Business, Management and Marketing (4th); and Physics (5th).

National Student Survey
In the National Student Survey Heriot-Watt is top in Scotland for seven of its 17 subjects and top in the UK for two:

- Chemical Engineering is ranked top in the UK for the fifth year running, while Electrical Engineering rose to also rank first – both subjects received a 100% satisfaction rating;
- The University is first in Scotland for Chemical Engineering, Chemistry, Electrical Engineering, Accounting, Economics, Civil Engineering and Planning.

100 under 50 World University Ranking
Heriot-Watt rose eleven places in the Times Higher’s annual "100 under 50" World University Ranking which ranks universities which are under fifty years old. Ranked at 52nd, up from 63rd last year, the University is now in 7th place in the UK. Heriot-Watt is also ranked 7th in the world and 2nd in the UK for International Mix, a category which looks at diversity on campus and how much each university’s academics collaborate with international colleagues on research projects.

1. & 4. Guardian University League Tables
2. National Student Survey
3. 100 under 50 World University Ranking
NEW SCHOOL OF ENERGY, GEOSCIENCE, INFRASTRUCTURE AND SOCIETY

A new School of Energy, Geoscience, Infrastructure and Society (EGIS) has been created through the merger of the School of the Built Environment and the Institute of Petroleum Engineering. The new School’s combined focus aligns with major issues facing society and will generate significant opportunities for teaching and research synergies.

Professor Garry Pender, the new Head of School, commented: “Our research activity will continue to be promoted through our outstanding expert centres: the Institute for Infrastructure and Environment (IIE), the Institute of Petroleum Engineering (IPE), the Centre of Excellence in Sustainable Building Design (CESBD), and the Institute for Social Policy, Housing, Environment and Real Estate (I-SPHERE). Supported by Professor Dorrik Stow, Head of IPE and Professor Lynne Jack who will be the Deputy Head of the new School, I believe EGIS will unify our strengths in these areas and lead to the development of a sustainable and innovative School.”

The International Centre for Island Technology (ICIT) whose activities are predominantly in the field of marine science, and which was formerly within IPE, has become part of the School of Life Sciences.
BUILDING CONTRACTOR APPOINTED FOR NATIONAL SPORT CENTRE

Scotland’s new National Performance Centre for Sport (NPCS), developed through a partnership between Heriot-Watt University, the City of Edinburgh Council and sportscotland, will be built at the University’s Edinburgh Campus by Bowmer and Kirkland. Commenting on the appointment Alan Johansen of Bowmer and Kirkland, said: “We are extremely proud to have been selected as preferred contractor on such a prestigious project for Scotland and we are looking forward to working with the entire project team.”

The £30 million project will include a full size, indoor, 3G synthetic pitch for football and rugby, a nine-court sports hall, grass and synthetic outdoor pitches, as well as a high performance wing that includes areas for hydrotherapy, strength and conditioning, rehabilitation, elite changing, office accommodation and a classroom. It will allow for grassroots development through to high performance training.

Shona Robison, Cabinet Secretary for Sport, commented: “Having tremendous facilities is an essential component of Scotland’s world-class performance system which delivered so emphatically with Team Scotland’s success at Glasgow 2014, and the NPCS will further benefit performance athletes and community participants when it opens in 2016.”

COMMONWEALTH GAMES CELEBRATIONS

Queen’s Baton Relay

The first Edinburgh leg of the Glasgow 2014 Queen’s Baton Relay took place at Heriot-Watt University in June. To celebrate the event a free carnival of family sports activity took place on the Edinburgh Campus where Principal, Professor Steve Chapman, handed the Baton to the first Baton Bearer, local school pupil Cameron Finlayson.

Professor Chapman commented: “As hosts of the National Performance Centre for Sport we are delighted that the first Scottish leg of the Queen’s Baton Relay is through our Edinburgh Campus and directly past the site for the new Centre. As Scotland’s most international university, it gives me pleasure to note that we currently have students from forty seven out of fifty three of the Commonwealth countries. If we include our Alumni, we encompass all but two of the Commonwealth countries. Hopefully it won’t be long before we have successful applicants from Kiribati and Tuvalu, and we’ll have a Commonwealth full-house!”

Participants in the Commonwealth Games Queen’s Baton Relay
HERIOT-WATT COMMONWEALTH COMPETITORS ENJOY SUCCESS

Fourteen Heriot-Watt Sports Scholars, forthcoming Sports Scholars, graduates and past students took part in the Commonwealth Games in Glasgow, with four of them winning medals.

Current Heriot-Watt Sports Scholars:
- **Kelly Edwards** won a Silver medal for England in the Under 52KG Judo
- **Stephanie Inglis** won a Silver medal in the Under 57KG Judo
- **Lisa Kearney** won a Bronze medal for Northern Ireland in the Under 52KG Judo
- **Patrick Dawson** finished fourth in the Under 73KG Judo
- **Craig McNally** finished fifth in the 200m Backstroke and seventh in the 100m Backstroke
- **Kathryn Johnstone** finished sixth in the 50m Breaststroke and reached the semi-finals in the 100m Breaststroke
- **James Johnstone** was in the Scottish Rugby Sevens team which reached the quarter finals before losing to the winners South Africa

New Scholars from September 2014:
- **Craig Benson** finished fourth in the 100m Breaststroke and seventh in the 4x100m Medley
- **Lucy Hope** came fifth in the 4x100m Freestyle and 4x200m Freestyle relays and fourth in the 4x100m Medley
- **Colin Gregor** was in the Scottish Rugby Sevens team which reached the quarter finals
- **Seonaid McIntosh** finished nineteenth in her qualification round in the Small Bore Rifle – 10m Air Rifle

Graduates:
- **Michael Jamieson**, who formerly studied Sports and Exercise Science, won a Silver medal in the 200m Breaststroke and reached the semi-finals in the 100m Breaststroke
- **Lee Jones** was in the Scottish Rugby Sevens team which reached the quarter finals
- **Jamie Bowie** finished fifth in the final of the 4x400m breaking the Scottish record
GAME-CHANGING OIL AND GAS INITIATIVE

Six of the oil industry’s biggest names, BP, Shell, BG, ConocoPhillips, E.On and Total confirmed additional funding support of £880,000 for the new Centre for Doctoral Training (CDT) in Oil and Gas led by Heriot-Watt University. The Natural Environment Research Council (NERC) has already allocated £2.7 million to the Centre and the remaining £5.2 million required will come from the Centre’s academic and affiliated partners over the next six years.

The Centre was officially opened in October by Stuart Edwards, Deputy Director Materials and Resource Industries at the Department of Business Innovation and Skills. It will focus on creating a highly skilled workforce with expertise that can be used across the wider energy and environmental sectors, as well as filling skills gaps in the oil and gas sector. This will equip industry with the skills needed to meet the future challenges of energy security.

Keith Gerdes, European President of the American Association of Petroleum Geologists (AAPG), commented: “This Centre is a truly game-changing initiative and represents the most exciting development in the provision of training for the energy industry in the UK that has occurred during my career. The consortium of universities led by Heriot-Watt includes major UK providers of world-class teaching and research in petroleum geoscience and related subjects.”

Heriot-Watt’s Professor John Underhill, who holds the position of Shell Chair of Exploration Geoscience, will lead the CDT. Commenting on the oil industry’s support he said: “This level of investment underlines how important industry regards the CDT. We’ve developed a new model for the Centre bringing together seven core partners and a further 12 associate partners from across the UK.”

50 YEARS OF SCIENTIFIC DIVING

The University celebrated 50 years of advancing research through scientific diving in 2014. Special honours were paid to Professor Cliff Johnston who initiated Heriot-Watt’s scientific diving in 1964, and Bobby Forbes who is responsible for running the Sula Diving company and diving recompression chamber at the Orkney Campus.

At the celebration, Professor Hamish Mair of the Centre for Marine Biodiversity and Biotechnology, who has been diving with Heriot-Watt since 1979, commented: “The University is now a world leader in marine environment surveying and monitoring research and student training in these areas. Fifty years have seen a lot of changes in diving with equipment and thermal clothing becoming more efficient, and modern health and safety regulations informing student training. One of the greatest changes, however, is the use of digital photography to capture high quality images.”

Dr Richard Shucksmith, an ecological photographer from Shetland, has been a key player in providing the University’s marine staff and students with expert digital images. Dr Bill Sanderson, Heriot-Watt’s MASTS Reader in Marine Biodiversity and leader of the survey commented: “Richard’s work has been of enormous benefit in communicating our work.” This year Dr Shucksmith has won first prize in the BWPA awards for a unique image of an otter eating a puffin.”

Award winning photographer, Richard Shucksmith has been supporting Life Sciences research
NEW PARTNERSHIP WITH SANTANDER

Heriot-Watt became a new UK partner with Santander Universities Global Division in a three year agreement amounting to £40,000 per annum with an additional £16,700 to support internships in the first year. The partnership will allow students to broaden their research activities by studying and carrying out research overseas at universities which are partners of Santander.

The agreement was signed by the Principal, Professor Steve Chapman, who commented: “Entrepreneurism is key to all of Heriot-Watt’s teaching and research, underpinned by an international network of strong relationships with business and industry. This agreement with Santander Universities exemplifies both of these elements, and we are delighted at the additional support and opportunities it offers to our students and to research staff.”

Entrepreneurism is key to all of Heriot-Watt’s teaching and research, underpinned by an international network of strong relationships with business and industry.

ROYAL VISIT

As part of the Common Purpose CSC Leaders programme, Her Royal Highness, Princess Anne, visited the Edinburgh Campus to view some of the University’s cutting-edge laboratories and learn about leading research across a range of disciplines.

Her Royal Highness visited the Life Sciences Interface Laboratory and met Professor Rory Duncan, Head of the Institute of Biological Chemistry, Biophysics and Bioengineering, as well as colleagues and PhD students. She spoke with staff and students about the Edinburgh Super Resolution Imaging Consortium (ESRIC) and the molecular cell biology research taking place. She also met with Dr Will Shu, Reader in micro-engineering, to learn more about specialised 3D printing processes using human stem cells.

Common Purposes CSC Leaders is an annual conference which assembles 120 exceptional senior individuals from across the Commonwealth to tackle the major challenges facing businesses, governments and society and build the global relationships needed to address them.
FASHION SHOW CELEBRATES SCOTTISH BORDERS TEXTILE HERITAGE

The School of Textiles and Design focused on the Scottish Borders’ rich and diverse textile heritage in its annual fashion show held at the historic, 19th century Abbotsford House, the home of Sir Walter Scott. The show celebrated the innovation, technological expertise, craft skills and cutting-edge design of the students, and included Harris Tweed floor length gowns and a sports collection using knitted fabrics which can keep athletes cool.

STUDENT RECRUITMENT SUCCESS

The University experienced another year of sustained growth in UCAS applications for study on our Scottish Campuses. For the last seven consecutive years applications have increased, rising from 7,984 for 2008 entry to 13,589 for 2014 entry. We met and surpassed our student recruitment targets in the competitive Undergraduate Rest of UK market, with intake increasing by 17% - a significant achievement. We also surpassed the challenging Wider Access targets set by the Scottish Government.

At postgraduate level the University successfully recruited 70 new Scottish students through a Scottish Funding Council funded places programme. Student recruitment at our Dubai Campus remained strong with an intake of 1,102. Academic entry requirements and tuition fees were increased for September 2014 entry, which reflected our position as one of the leading international providers in the region. In Malaysia our new Campus opened in September and our student population is nearly at 500. Twenty-eight nationalities are represented in the student body demonstrating our commitment to provide a distinctive contribution to the South East Asia region.

Our undergraduate international student recruitment also increased by 19% with 35% of these new students at our Scottish Campuses coming from China. This reflects an increase in students coming from our Chinese partners which has surpassed 100 for the first time in our history.
First intake of students at Heriot-Watt University Malaysia
NEW HERIOT-WATT UNIVERSITY MALAYSIA CAMPUS

Heriot-Watt University Malaysia’s (HWUM) stunning, purpose-built Campus opened in September 2014. The £35 million development is the first ‘green campus’ in the country and the first university in Putrajaya, the government capital. Built by Putrajaya Holdings Sdn Bhd, the master developers of the garden city, the new Campus provides exceptional facilities in a beautiful lakeside setting. Its design and location has created a stimulating learning environment where a growing team of 80 academic and professional staff currently teach and support 470 students studying a range of Foundation, Undergraduate and Postgraduate programmes.

The new HWUM Campus is distinctive for its environmentally friendly, passive design features which include lighting ‘powered’ by the maximum use of natural daylight, a rainwater harvesting system and optimised air-conditioning and thermal control systems. Its striking grass roof, the first of its kind in Malaysia, is 300 metres long and 30 metres wide. Accessible by a glass lift, the roof provides a unique vantage point to enjoy uninterrupted views across the 1,600 acre lake.

The creation of the Campus was architect-led, using educational design specialists to ensure it incorporated a range of modern learning spaces, including laboratories, lecture halls, a library and a wide range of learning studios with wi-fi throughout. It provides an exceptional environment for study and an inspiring place for a new generation of students.

The range of available programmes of study on the Campus continues to develop and there has been particular success with the launch of the undergraduate degree programmes in Actuarial Science and in engineering disciplines including Petroleum Engineering and Chemical Engineering.
STUDENT GROWTH IN DUBAI

The Heriot-Watt Dubai Campus has now grown to a student population of 3,650 with well over 500 of these students recruited from overseas countries. This growth in numbers reflects an increase of around 35% from Commonwealth of Independent States (CIS) and about 15% from Gulf Co-operation Council (GCC) markets.

Uptake of our recently introduced PhD programmes in the School of Management and Languages and the School of Energy, Geoscience, Infrastructure and Society (EGIS), (formerly the School of the Built Environment) is underway and new programmes in Computer Systems (Computer Gamed programming) and Chemical Engineering will be introduced in September 2015.

Joint collaboration between Heriot-Watt and the University of Sharjah in the UAE was boosted through the signing of a Memorandum of Understanding. The University of Sharjah is a leading academic provider which supports a student population of around 10,800 students. It encompasses 14 colleges which offer a diverse range of programmes across diploma, bachelor, master and PhD levels.

MOBILE DEVELOPER CHALLENGE WIN

Dubai Computer Systems students, Yasmine Fadel and Neha Choudary in the School of Mathematical and Computer Sciences, won the GISWORX ‘14 Mobile Developer Challenge with their ‘Let’s Go’ mobile application. GISWORX ‘14 is a challenge open to student developers in universities across the Middle East to showcase their creativity and resourcefulness in developing applications in iOS, Windows and Android mobile devices. The ‘Let’s Go’ application was developed to boost Dubai Tourism by displaying popular shopping malls, restaurants and outlets and provide information on how to reach these destinations by supplying the distance and time it will take from a person’s current location.

DUBAI OUTSTANDING STUDENT AWARD

Heriot-Watt Dubai received the prestigious 2014 Society of Petroleum Engineers (SPE) Outstanding Student Chapter Award at the SPE’s Annual Technical Conference and Exhibition in Amsterdam. SPE recognises exemplary efforts in industry engagement, operations and planning, community and social outreach. Dmitriy Klinchev, SPE Heriot-Watt Dubai Chapter President collected the Award on behalf of the Dubai Campus.
OFFICIAL OPENING OF CONFCUICUS INSTITUTE

Heriot-Watt's new Scottish Confucius Institute for Business and Communication was officially opened by Mike Russell MSP, Cabinet Secretary for Education and Lifelong Learning and Mr Shen Yang, the Minister Councillor for Education from the Embassy of the People's Republic of China in Great Britain and Northern Ireland.

Designed to promote business, communication and cultural links between Scotland and China, the Institute builds on Heriot-Watt's long-term interest in China. It will help to forge new partnerships, attract more well-qualified students to study in Scotland, and foster joint research and academic collaborations. The development of the Institute also aligns with the Scottish Government's strategy to increase trade opportunities for Scottish business in China, to encourage Chinese investment in Scottish industry and infrastructure, and to deepen Scottish educational links with China.

Commenting on the opening, Cabinet Secretary for Education Mike Russell said: “This new Confucius Centre will be a fantastic addition to Heriot-Watt University and to Scotland. Mandarin is one of the world's most widely spoken languages and it's important that people in Scotland get the opportunity to learn about China, its language and its growing role in the modern world.”

Principal, Professor Steve Chapman, added: “The opening of the Institute underlines the importance that Heriot-Watt places on internationalisation and global collaboration. Our work with the Confucius Institute will encourage mobility between Chinese and local students ensuring their exposure to business, language and culture.”

OUTSTANDING OVERSEAS PARTNER UNIVERSITY AWARD

Heriot-Watt has received the 'Outstanding Overseas Partner University' award from the Chinese Service Centre for Scholarly Exchange (CSCSE). The CSCSE is a public organisation under the Ministry of Education and plays a central role in internationalising education in China. Heriot-Watt has been working closely with the CSCSE since 2009, developing partnerships which now play a significant part in the overall profile of the University's links with Chinese universities, scholars and students.

Delegates from the University accepted the award while visiting China to meet with partner universities to help further collaboration in teaching and research. Representatives of the Schools of Engineering and Physical Sciences, Mathematics and Computer Sciences, Textiles and Design, and Energy, Geoscience, Infrastructure and Society, visited universities in Beijing, Tianjin, Xi’an, Hangzhou, Guilin and Shenzhen.
MAJOR IMPROVEMENT IN REF PERFORMANCE

Heriot-Watt University has risen to 33rd position in the UK in the 2014 Research Excellence Framework (REF) outcomes, compared with 45th in 2008. In terms of 3* and 4* gradings Heriot-Watt is ranked 22nd in the UK and 3rd in Scotland and in the new Impact gradings Heriot-Watt ranks 22nd in the UK and 2nd in Scotland.

"The REF results for Heriot-Watt University are truly excellent," said Professor Steve Chapman, Principal. "We have made major progress and we are now firmly placed with the UK’s best in our core disciplines."

In General Engineering a joint submission by Heriot-Watt University and the University of Edinburgh came 1st in the UK. In Architecture, Built Environment and Planning a joint submission by the University of Edinburgh and Heriot-Watt University came 2nd in the UK. In Mathematical Sciences a joint submission between the University of Edinburgh and Heriot-Watt University came 5th in the UK.

A new category in REF 2014 is ‘Impact’ i.e. demonstrating the benefit that our research makes for society at large. Examples of Heriot-Watt’s research impact are as diverse as providing greater equality for deaf people, helping to manage risk in the insurance industry, alleviating homelessness in Scotland, new spin-out companies in optoelectronics, renewable energy developments in Orkney, and enhancing oil extraction from the North Sea. In this category, Heriot-Watt ranks 22nd in the UK and 2nd in Scotland.

NEW OIL AND GAS INNOVATION CENTRE

Heriot-Watt is leading a new academic and industrial partnership bringing together Scottish expertise to solve the global challenges of the oil and gas industry. £10.6 million worth of funding was announced by the First Minister, Alex Salmond, to create the new Oil and Gas Innovation Centre (OGIC).

Funded by the Scottish Funding Council and supported by Scottish Enterprise and Highlands & Islands Enterprise, OGIC will support the industry to increase production and reduce costs by enabling the delivery of innovative technical solutions.

OGIC links over 2,300 oil and gas operators and service companies to 12 Scottish universities, including Heriot-Watt, which together have over 450 academic staff and researchers working on oil and gas specific technologies.

Speaking on behalf of OGIC’s academic partners, Professor Dorrik Stow, Head of the Institute of Petroleum Engineering at Heriot-Watt, commented: “The Oil and Gas Innovation Centre will make it easier for Scotland’s academics to innovate and collaborate with supply chain companies. OGIC will focus Scotland’s academic power to develop applied, innovative solutions to the oil and gas industry’s key challenges.”

Heriot-Watt University has risen to 33rd position in the UK in the 2014 Research Excellence Framework (REF) outcomes, compared with 45th in 2008. It is now firmly positioned alongside the UK’s best in its core disciplines.
£10 MILLION SENSOR SYSTEMS INNOVATION CENTRE FOR SCOTLAND

A new £10 million innovation hub to bring together Scotland’s universities with industry partners and bridge the gap between university research and industrial uptake has been created. CENSIS is a centre of excellence for Sensor and Imaging Systems (SIS) technologies, enabling leading industry innovators and world-class university researchers to collaborate at the forefront of market-focused SIS innovation, developing products and services for global markets.

CENSIS will act as a single contracting point for companies to access SIS research capabilities in Scotland’s universities, including Heriot-Watt University. The Scottish Funding Council (SFC) has invested £10 million in CENSIS to support new research and development projects, longer-term research tackling common challenges and needs, and employee training and development. Some projects are already advanced, including a collaboration between Renishaw and Heriot-Watt to develop low-cost magnetic transducers. Heriot-Watt’s MISEC Research Group is also developing a new type of non-invasive, microwave-based sensor.

SIS is a key enabling technology that is fundamental to a range of industrial sectors, including transport, defence, oil and gas, agriculture, built environment, life sciences and food and drink. CENSIS is expected to deliver 150 collaborative research and development projects and bring new products to market over the course of its initial five-year funding period.

£83.5 MILLION FUNDING FOR PHD TRAINING

A major injection of funding from the Engineering and Physical Sciences Research Council (EPSRC) was announced by David Willetts, Minister for Universities and Science, for Postgraduate training in the UK’s universities. The Doctoral Training Partnership (DTP) funding, which ranges from £300,000 to nearly £8 million, was awarded to 38 universities including Heriot-Watt.

The enhanced flexibility of the DTP funding will allow Heriot-Watt to potentially leverage funds, for example from industry, to support higher numbers of students and to offer Doctoral Prizes to EPSRC-supported students so they can maximise the impact of their PhD.

Commenting on the funding boost, David Willetts said: “This significant investment shows that the UK is committed to top quality postgraduate research and training. It will provide us with a wealth of skilled people able to tackle global challenges, from infrastructure planning to public health.”
NEW INSIGHT INTO CELL BEHAVIOUR

A powerful camera that will enable scientists to examine living cells in unprecedented detail is being developed through a partnership between Heriot-Watt and Edinburgh University. The £2.3 million project is creating a fingernail-sized device, mounted within a microscope, which facilitates close-ups of the movement of molecules within cells. This level of detail will help scientists to understand how healthy and diseased cells behave.

Conventional cameras typically capture thousands of photons at once on each of their pixels but this new camera will be sensitive enough to capture single photons of light - the smallest unit of light that can exist. It will combine thousands of light detectors which are fast and sensitive enough to capture short-lived photons. Cells are studied by marking them with fluorescent dye and capturing microscopic emissions of the light as small changes occur in the cells – typically at a rate of billions of photons per second.

The new camera will take digital imaging technology to the next level, allowing scientists to look at what goes on in living cells which, until now, has eluded them. The device could be the key to understanding, on a molecular level, exactly how cells function and what happens when things go wrong.

Once the first generation of the camera is developed, Dr Colin Rickman in the School of Engineering and Physical Sciences will use it to study insulin secretion and how this can change in diabetes. This will test the camera and its capabilities to provide feedback for the next phase of development. Dr Rickman commented: “For the first time, this unique camera will allow us to examine, in real time, protein interactions in live cells. Initially, we’ll use the camera to study the release of insulin in diabetes, however, ultimately it will be used in diverse areas of biomedical research to help scientists gain a deeper understanding of how diseased cells behave in patients living with other long-term conditions such as cancer.”
£3.6 MILLION FOR MANUFACTURING RESEARCH

Vince Cable, Secretary of State for Business, Innovation and Skills, announced £3.6 million funding for research projects which explore how light can be used in new ways in innovative manufacturing processes and technologies.

The funding, from the Engineering and Physical Sciences Research Council (EPSRC), is supporting a number of feasibility studies that aim to advance core science towards manufacturing in diverse sectors including pharmaceuticals, chemicals, electronics and security. Two Heriot-Watt projects are benefitting from the funding boost: Professor Marc Desmulliez, Head of Sensors, Signals and Systems, is researching photosynthesis-inspired manufacturing of metal patterns, and Andrew Moore, who is part of the EPSRC Centre for Innovative Manufacturing in Laser-based Production Processes, is researching photo elasticity for opaque objects.

David Delpy, Chief Executive of the Engineering and Physical Sciences Research Council said: “The projects we are supporting demonstrate how research into the fundamental science and engineering of optical phenomena can have a significant impact in manufacturing and also show how well the UK academic base works with industry to enable the UK to benefit from fundamental discoveries.”

ROBOTICS FUTURE HOSTED BY HERIOT-WATT

A major international symposium looking at the future of robotics was hosted at Heriot-Watt in 2014. The 2014 International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN 2014) featured almost 200 presentations from around the world and keynote speeches from leaders in the field, including Professor David Lane, Professor of Autonomous Systems Engineering at the University.

The symposium considered the latest developments in the provision of care for the elderly and infirm, emergency rescue and security work in inhospitable environments, and the development of robots to become more effective human companions. Dr Patricia Vargas, from the School of Mathematical and Computer Sciences, who acted as General Chair of the symposium, commented: “We were honoured to host the IEEE RO-MAN 2014. It is the first time RO-MAN has come to Scotland and it provided a unique opportunity for students and researchers to be in touch with some of the best robotists and state-of-the-art technologies applied to human-robot interaction.”

The symposium was particularly timely, following fast on the publication of a UK Robotics Strategy developed for the Department for Business, Innovation and Skills by the Robotics and Autonomous Systems Special Interest Group (SIG). The strategy, which was developed in consultation with the Engineering and Physical Sciences Research Council (EPSRC) and the UK robotics industry, highlights the UK’s prime position to become a world leader in an industry estimated to be worth between $1.9 – $6.4 trillion per year by 2025, in terms of its global economic impact.

Heriot-Watt’s Professor David Lane who chairs the Robotics and Autonomous Systems SIG, commented: “The UK is a substantial contributor to some of the world’s best research in the field of robotics and autonomous systems, but countries such as Japan, Korea and the USA have had greater success in developing companies to exploit those opportunities. We need to provide a business environment in the UK that is geared towards helping robotic and autonomous technologies out of the lab and into the marketplace. With the right course of action, we believe the UK could achieve 10 per cent of the global market share by 2025.”
LEADING RESEARCH INTO INTELLIGENT INTERACTIVE SYSTEMS

Heriot-Watt is leading research into the development of intelligent interactive systems which react with people as humanly as possible. The research is building systems that reflect the flow of human conversation and that can also learn from and become more attuned to their human interlocutors.

Professor Oliver Lemon of the Interaction Lab in the University’s School of Mathematical and Computer Sciences, commented: “Trying to build human-like capabilities for conversational interaction is an incredibly challenging problem, because it requires combining information from speech, vision, gestures, and facial expressions, as well as spatial location and movement. New mobile technologies are giving us the potential to access huge volumes of data that we are using to create machines that can learn from their interactions with humans.”

The potential for smarter computer systems is expanding and Heriot-Watt researchers are currently working on several EC-funded research projects which all include elements of interactivity and conversational operation. Among them are:

- PARLANCE: which designs and builds mobile applications that approach human performance in spoken conversational interaction,
- SpaceBook: a hands-free, eyes-free device for pedestrian navigation and exploration which uses speech to interactively guide its users,
- JAMES: a socially intelligent robot bartender who uses physical, visual and spoken cues to recognise customers, figure out who needs attention, and then serves them in order.

RAPID RESERVOIR MODELLING RESEARCH COLLABORATION

Scientists from the Carbonate Reservoir Group in the University’s Institute of Petroleum Engineering have formed a $2.54 million research partnership with colleagues at the University of Calgary, Imperial College London and the Federal University of Pernambuco to develop novel Rapid Reservoir Modelling (RRM) software that facilitates prototyping of complex reservoir models.

The research partnership is supported by four oil companies - BG Group, ExxonMobil, Petrobras and Statoil, as well as software company IBM Research. Academic Lead, Professor Sebastian Geiger, commented: “The RRM project allows Heriot-Watt University to collaborate with world renowned researchers across four different academic institutions and five different companies, all providing a diverse range of expertise, from visualisation to petroleum geoscience and scientific computing.”

Conventional reservoir modelling workflows, facilitated by commercially available software packages, have remained essentially unchanged for the past decade. However, these workflows are slow, requiring many months from initial model concepts to flow simulation. Constructing or refining models for subsurface hydrocarbon reservoirs is a challenging task that entails a high degree of uncertainty and the lack of an intuitive set of modelling, simulation and visualisation tools significantly increases the challenge. The RRM that the group are developing could revolutionise the way subsurface reservoirs are modelled in the future.
MODEL TO PREDICT EPILEPTIC SEIZURES

Research led by Professor David Corne of the Intelligent Systems Lab in the School of Mathematical and Computer Sciences has applied advanced mathematical modelling to build a predictive model that effectively warns of an impending seizure for people with epilepsy.

Epilepsy affects some 50 million people worldwide, and while it can be managed in some patients using prescription drugs, many sufferers have to contend with unexpected seizures. For patients with types of epilepsy that are currently very difficult or impossible to treat, the only option is to minimize the effects of the seizure and having advance warning could make a big difference to their safety and well-being.

Explaining the research Professor Corne said: “We used all the available Electroencephalography (EEG) data from an existing dataset, and modelled it in new ways to build predictive models which provided an insight into how the brain works, including predicting future mental or physical states some time before they occur. Unlike earlier EEG analysis-based studies, where tests involved one or two patients, we tested the model on the datasets of 21 patients, all with types of epilepsy that are currently difficult or impossible to treat. The results indicate that by using predictive mathematical modelling it is now possible to give up to 20 minutes advance prediction of a seizure with considerable accuracy in most patients.”

Being able to predict seizures and coupling this information with state-of-the-art medical device technology, it could be possible to provide unobtrusive wearable devices that would provide accurate advance warning of seizures and allow patients to take prompt action to minimise risks.

NEW CORALS GAUGE CLIMATE CHANGE

Heriot-Watt scientists have discovered new populations of deep-sea corals growing on the slopes of the UK’s highest underwater mountain, the Hebrides Terrace Seamount, which stands at 1,400 metres above the surrounding seafloor. The corals were discovered by a robot sub during the first-ever visual survey of the mountain which is actually an extinct, subsea volcano.

The researchers were surprised to find the corals growing at such depths where the seawater is naturally more corrosive to coral skeletons. In addition, the increasing levels of carbon dioxide being released into the atmosphere are making the oceans of the world generally more acidic. The corals may provide an important warning gauge of climate change as they are growing in conditions close to the limits of what scientists would expect them to tolerate.

The international survey team was led by Professor Murray Roberts of the School of Life Sciences, who commented: “These were some of the most exciting surveys we’ve ever carried out at sea. Now we need to get back to these sites to work out how these corals are able to survive in these harsh conditions. In the meantime it’s very promising to see this important place included as one of Scotland’s Marine Protected Areas.”
NEW DEVICE TO DETECT CARCINOGENIC TOXINS IN FOOD

One of the food industry’s major recurring challenges is detecting the highly carcinogenic aflatoxins that occur naturally in most common crops. They are present in a wide range of food stuffs, especially cereals, grains and nuts, and because they occur naturally they cannot be eliminated from the food chain. Instead, suppliers and producers of food stuffs focus on detecting them quickly.

Dr Stephen Euston of the School of Life Sciences is leading groundbreaking research to test the feasibility of a new device, designed by Edinburgh Biosciences, which can detect aflatoxins much more quickly and accurately than current methods. He commented: “Detecting aflatoxins quickly and at each stage of the global supply system is of crucial concern. Currently, detection relies on a time-consuming method that involves extracting the toxin from the food and sending it to a lab for testing and identification. This leads to delays and costs which are passed onto the consumer.”

Aflatoxins fluoresce strongly and Dr Euston’s team are using the latest Light Emitting Diodes (LEDs) with a new generation of interference filters to develop a highly sensitive instrument that will detect the fluorescence and identify aflatoxins rapidly. The device will also detect aflatoxins at an even lower level than the current EU permitted maximum level of four micrograms per kilogram.

It will bring huge benefits to farmers, transportation agents, port inspectors, buyers, importers, exporters and producers of foodstuffs for human and animal consumption. Ultimately, however, it will benefit consumers, as food will be safer, and production and retail costs should decrease.

LARGEST UK POVERTY STUDY

Researchers in the School of Energy, Geoscience, Infrastructure and Society were involved in the largest study of poverty and deprivation ever conducted in the UK. The Poverty and Social Exclusion in the United Kingdom research project (PSE UK) is funded by the Economic and Social Research Council, and compiles the results of surveys on attitudes to necessities and services and on living standards, to provide an up-to-date account of the extent and depth of poverty and social exclusion in the UK.

The project has concluded that the percentage of households which fall below society’s minimum standard of living has increased from 14 per cent to 33 per cent over the last 30 years, despite the size of the economy doubling.

Professor Glen Bramley, from the School of Energy, Geoscience, Infrastructure and Society commented: “It is worrying that in the 21st century more than 40 per cent of households which want to use meals on wheels, evening classes, museums, youth clubs, citizens’ advice or special transport cannot do so due to unavailability, unaffordability or inadequacy.”

Detailed findings from the PSE UK research were presented at the Third Peter Townsend Memorial Conference held in June 2014.
People

Frances Cairncross, new Chair of the University Court
NEW CHAIR OF UNIVERSITY COURT APPOINTED

Frances Cairncross, CBE, FRSE, has been appointed as the new Chair of the University Court. She takes up the post in January 2015, after the current Chair, Lord Penrose, completes his term of office. Frances previously worked as a senior editor of The Economist from 1984 to 2004, and comes to Heriot-Watt after ten years as Rector of Exeter College, at the University of Oxford.

Commenting on her appointment Frances Cairncross said: "I am thrilled to be involved with Heriot-Watt. The University does very well on student satisfaction ratings and its international strategy is really exciting. I look forward to working with this star of the Scottish university world."

Lord Penrose, current Chair of Court, commented: "We are delighted that Frances Cairncross has agreed to take up the role of Chair of the University's governing body. She brings with her a wealth of experience in higher education, the private sector and corporate boards and a huge enthusiasm for the future success of Heriot-Watt University."

SPIRIT OF HERIOT-WATT AWARDS 2014

The Spirit of Heriot-Watt Awards recognise highly committed and enthusiastic staff who especially embody the values of the University, and who work to make an exceptionally positive contribution through their role. This year’s winners are:

Valuing and Respecting Everyone:
Denise Dickson
Senior Administrative Assistant, School of Energy, Geoscience, Infrastructure and Society
Denise’s nominations came from across her School demonstrating that during many years of service, valuing and respecting everyone has been at the heart of her work.

Pursuing Excellence:
Audio Visual Team
Information Services
The Audio Visual Team’s award marks their consistently high performance and willingness to provide proactive, specialist support and excellent service.

Pride and Belonging:
James Buchanan
Facilities Manager, School of Life Sciences
James was recognised for his meticulous attention to detail, hard work and dedication. He has previously been described as ‘Mr Heriot-Watt’, providing a safe pair of hands in his 47 years of service.

Shaping the Future:
The Health and Safety Team
Heriot-Watt University
The Health and Safety Team’s award recognises the huge impact the team has made across the University, working tirelessly and often behind the scenes in areas which have a real and everyday impact.

Outward Looking:
Kristi Hayes
Employer Liaison Officer, Careers Service
Kristi’s award acknowledges her promotion of Heriot-Watt and its students, ensuring services meet the ever-demanding needs of employers who have a ‘global’ marketplace to recruit from.

Partner Award:
Toby Toms Skaria
Student President, Heriot-Watt University Dubai
Toby’s award recognises his activities in ensuring the voices of students are heard.

Special Recognition:
The Landscape Team
Edinburgh Campus
NEW ACADEMIC REGISTRAR

Paul Travill joined Heriot-Watt in November as Academic Registrar Designate. With a wealth of experience in the Higher Education sector, Paul joins from the University of Wolverhampton where he held the position of Academic Registrar and Director of Corporate Administration. Paul has led on strategy, development, regulation and compliance, plus service delivery in all aspects of the student lifecycle and academic administration. Commenting on his new appointment, Paul said: “I’m delighted to have been selected as the new Academic Registrar at Heriot-Watt University. I’m looking forward to joining the dedicated team to help lead and deliver Registry services and a high quality experience for both colleagues and students.”

NEW DIRECTOR OF MARKETING AND COMMUNICATIONS

Martyn Spence has been appointed as the new Director of Marketing and Communications and took up his post in January 2015. Martyn has over 17 years’ experience of leading marketing and communications within Higher Education, and joins Heriot-Watt from Robert Gordon University, where he was Director of Marketing, Communication and Student Recruitment. Commenting on his appointment Martyn said: “I’m thrilled to be joining Heriot-Watt University at such an important time of international development and am looking forward to the challenge of promoting Heriot-Watt’s pioneering spirit and global aspiration in collaboration with colleagues, managers and academics across the University.”

KATHY PATTERSON RETIRES

Kathy Patterson retired from her position as Academic Registrar in December after a career with Heriot-Watt extending 21 years. Commenting on her retirement, Ann Marie Dalton, Secretary of the University said: “During her time at Heriot-Watt Kathy has significantly developed and enhanced Registry Services, and been a key member of the Professional Services. She has contributed greatly to Heriot-Watt and we all wish her the very best for the future.”

PROFESSOR GEOFF PALMER INVESTITURE

Professor Geoff Palmer, Emeritus Professor in the School of Life Sciences, has been knighted for his contribution to science, human rights and charity. Born in Jamaica, Geoff Palmer came to London aged 14 to join his mother. He credits a visit from an immigration official, who insisted he go to school until his fifteenth birthday instead of taking up the job his mother had arranged, for his subsequent academic career. This included a degree at Leicester University, a PhD at the University of Edinburgh, and a post-doc and long career at Heriot-Watt, joining as a junior lecturer in 1977 and elected Professor of Grain Science and Brewing in 1990. In 1998 he was awarded The American Society of Brewing Chemists’ (ASBC) Award of Distinction, described as ‘the Nobel Prize of the brewing world’. Sir Geoff also has a long established history of community and race relations work.
PROFESSOR MAROTO-VALER AWARDED FELLOWSHIP OF ICHME

Professor Mercedes Maroto-Valer, from the School of Engineering and Physical Sciences, has been awarded a prestigious Fellowship to the Institute of Chemical Engineers (IChemE). Fellows to the IChemE are recognised for being engineering professionals of distinction, making a significant contribution to their profession and demonstrating technical excellence and leadership. Professor Maroto-Valer is the holder of the Robert Buchan Chair in the Institute of Mechanical, Process and Energy Engineering and is also a Fellow of the Royal Society of Chemistry.

PROFESSOR RECEIVES INTERNATIONAL AWARD

Professor John Underhill, from the School of Energy, Geoscience, Infrastructure and Society, received the Alfred Wegener Award from the European Association of Geoscientists and Engineers (EAGE) at its 76th annual conference. The event attracted more than 7,000 attendees from a worldwide membership of more than 18,500. The Alfred Wegener Award is presented to a member of EAGE who has made an outstanding contribution to the scientific and technical advancement of one or more of the disciplines in the Association, particularly petroleum geoscience and engineering. Commenting on the award, Professor Underhill said: “My particular goal in my teaching and research is to inform, educate and inspire the next generation of applied geoscientists in the application of structural geology, sedimentology and stratigraphy, to aid the safe and sustainable search for hydrocarbons.”

ROYAL SOCIETY AWARDS

Heriot-Watt researchers from the School of Engineering and Physical Sciences (EPS) won three of the five prestigious Royal Society of Edinburgh (RSE)/Scottish Government Research Fellowships at the 2014 Research Awards Reception. The event is held to mark the allocation of funding by the Society towards important research work across academia and business in Scotland. Sir John Arbuthnott, RSE President, and Professor Steve Beaumont, RSE Research Awards Convener, announced the Fellowships, which provide five years of salary, to Dr Gareth Lloyd, Dr Mohammed Saleh, and Dr Erik Gauger. In addition, Dr Silvana Palacios, of the School of Textiles and Design, won a Scottish Enterprise, Enterprise Fellowship; Dr Bernadette O’Rourke, of the School of Management and Languages, won a Scottish Government Arts and Humanities Small Grant; and Dr Stephen Mansell, of EPS, won Scottish Crucible Project funding to lead an inter-university group investigating 3-D printing for ground-breaking outreach and research.

Dr Stephen Mansell (left) receives Scottish Crucible Project funding to lead an inter-university group investigating 3-D printing for ground-breaking outreach and research from Sir John Arbuthnott, RSE President.
BBC ONE SHOW DEBUT

Dr Bill Sanderson, a Reader in Marine Biology in the School of Life Sciences, made his TV screen debut on the BBC’s One Show in July. The programme highlighted the work that he and Dr Joanne Porter are conducting in Scapa Flow on marine life biodiversity linked to the WW1 Protected Monument shipwrecks from the German High Seas fleet. Their work has shown that the SMS Karlesrhue wreck in particular is a biodiversity hotspot formed by long-lived horse mussels on the seabed.

INTERNATIONAL PARTNER CONFERENCE

The Edinburgh Business School (EBS) hosted the 6th biennial International Partner Conference, welcoming 65 delegates from across the world who represented 22 of the University’s 28 Learning Partners. Programme Directors and Administrators from the Dubai and Malaysia campuses also attended, along with Regional Directors of EBS overseas offices in Australia, Eastern Europe, Southern Africa, Arab World, Asia, Latin America and North America. The conference was focused on learning, and discussed a variety of topics including the development of online tuition projects and the launch of the new specialism in Oil and Gas Management in 2015.

DESIGN STUDENTS WIN AWARDS

Two young designers from the School of Textiles and Design scooped prestigious awards at this year’s New Designers exhibition in London. Rachel Howarth from Aberdeenshire was awarded The Textile Society Lucienne Day Award for her high-end interior design and art collection, and Amy Gair from Shetland won the New Designers Worshipful Company of Weavers Associate Prize for her woven fabrics collection. The accolades are among the most important in the UK for young design talent, recognising students for innovative and ground-breaking work.

Stacey Etieve, a recent graduate of the School of Textiles and Design, was also talent-spotted at the New Designers exhibition. Retail giant John Lewis featured her in the ‘John Lewis Loves’ section of their website as one of the UK’s most innovative graduates, while designers from Next also expressed interest in Stacey’s interior design collection.

Nilufar Islam, a final year student, who was picked to represent the UK in the prestigious Bemz Design Award and went on to win the competition, saw her ‘A Bird’s Tale’ fabric design put into production and sold worldwide. Bemz is a Swedish company known for its extensive range of slipcovers for IKEA furniture. Nilufar’s design will now be available as sofa, cushion and bed covers and also as curtains.
Honorary Graduates 2014

01 Gordon Ballard,
Chairman,
Schlumberger UK Ltd
02 Professor Alan Barclay,
Governance Director,
Europe Supply, Diageo
03 Professor Sue Bruce,
Chief Executive,
City of Edinburgh Council
04 Matt Fox,
Executive Vice President,
Exploration and Production
ConocoPhillips
05 Trevor Garlick,
Regional President,
BP North Sea
06 Martin Gilbert,
Co-founder and Chief Executive,
Aberdeen Asset Management PLC
07 Louise Martin,
Chair,
sportscotland
08 Kate Mavor,
Chief Executive,
National Trust for Scotland
09 Dr Judith McClure CBE,
Former Head of St George's School,
Edinburgh
10 Professor Stuart K Monro OBE,
DUniv, FRSE,
Scientific Director, Our Dynamic Earth
11 Professor Ragnar Norberg,
Laboratoire SAF, University of Lyon
12 Dr Ceri Powell,
Global Head of Exploration,
Royal Dutch Shell
13 Freya Ross,
Scottish Long Distance Runner
14 Sean Tompkins,
Global Chief Executive,
RICS (Royal Institution of Chartered Surveyors)
15 Dr Liu Zhenwu,
Senior Advisor,
Advisory Center, China National Petroleum Corporation (CNPC)
Statistics

Income and Expenditure 2013/14

Income

- Funding body grants: £44.0m (23.0%)
- Tuition fees and education contracts: £89.4m (46.7%)
- Research grants and contracts: £27.1m (14.2%)
- Other income: £30.1m (15.7%)
- Endowment and investment income: £0.7m (0.4%)

Total: £191.3m (100.0%)

Expenditure

- Staff costs: £89.0m (49.5%)
- Other operating costs: £81.3m (45.2%)
- Depreciation: £8.0m (4.5%)
- Interest and other finance costs: £1.5m (0.8%)

Total: £179.8m (100.0%)

Campus Students 2013/14

- Scotland: 57%
- Overseas: 22%
- Other UK: 8%
- Other EU: 13%

International Students 2013/14

Top ten by population size: On-Campus, Scotland and Dubai

<table>
<thead>
<tr>
<th>Country</th>
<th>Scotland</th>
<th>Dubai</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>18%</td>
<td>43%</td>
</tr>
<tr>
<td>Greece</td>
<td>7%</td>
<td>15%</td>
</tr>
<tr>
<td>Germany</td>
<td>6%</td>
<td>6%</td>
</tr>
<tr>
<td>France</td>
<td>5%</td>
<td>4%</td>
</tr>
<tr>
<td>Malaysia</td>
<td>5%</td>
<td>3%</td>
</tr>
<tr>
<td>Norway</td>
<td>5%</td>
<td>2%</td>
</tr>
<tr>
<td>India</td>
<td>4%</td>
<td>2%</td>
</tr>
<tr>
<td>Nigeria</td>
<td>4%</td>
<td>2%</td>
</tr>
<tr>
<td>Kingdom of Saudi Arabia</td>
<td>3%</td>
<td>2%</td>
</tr>
<tr>
<td>Oman</td>
<td>3%</td>
<td>2%</td>
</tr>
</tbody>
</table>

Heriot-Watt University has approximately 15,330 currently active students studying on international programmes. In addition there are 220 exchange and visiting students with a further 3,840 pre-MBA students studying with the Edinburgh Business School, making a total of over 31,500 students studying with the University on a global basis.

Campus Students 2013/14 (Scotland, Dubai and Malaysia)

<table>
<thead>
<tr>
<th>Schools</th>
<th>Postgraduate Research</th>
<th>Postgraduate Taught</th>
<th>Undergraduate</th>
<th>Campus Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering and Physical Sciences</td>
<td>248</td>
<td>147</td>
<td>1,607</td>
<td>2,002</td>
</tr>
<tr>
<td>Mathematical and Computer Sciences</td>
<td>94</td>
<td>197</td>
<td>889</td>
<td>1,180</td>
</tr>
<tr>
<td>Energy, Geoscience, Infrastructure and Society</td>
<td>139</td>
<td>206</td>
<td>729</td>
<td>1,074</td>
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<tr>
<td>Life Sciences</td>
<td>58</td>
<td>141</td>
<td>838</td>
<td>1,037</td>
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<td>Management and Languages</td>
<td>76</td>
<td>419</td>
<td>1,648</td>
<td>2,143</td>
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<tr>
<td>Textiles and Design</td>
<td>14</td>
<td>14</td>
<td>562</td>
<td>590</td>
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<tr>
<td>Dubai Campus</td>
<td>0</td>
<td>1,102</td>
<td>2,381</td>
<td>3,483</td>
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<tr>
<td>Malaysia Campus</td>
<td>0</td>
<td>53</td>
<td>172</td>
<td>225</td>
</tr>
<tr>
<td>Total</td>
<td>629</td>
<td>2,279</td>
<td>8,826</td>
<td>11,734</td>
</tr>
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</table>

Postgraduate Institutes

- Institute of Petroleum Engineering: 724
- Edinburgh Business School: 83

Total: 807

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Income and Expenditure 2013/14

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