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Cover image: 'Open-space learning' – pioneered at Warwick
For the University of Warwick, 2012 was a year of unique opportunity, both at home and overseas.

Our strategic alliance with Monash University in Melbourne, our involvement in the establishment of New York’s Centre for Urban Science and Progress, and our partnership with the Liverpool School of Tropical Medicine marked a step change in Warwick’s global relationships, increasing our opportunities to influence global developments and furthering our ambition to become a globally networked university.

In research, a successful year in terms of awards and the establishment of research-funded centres such as the £2.9 million Enterprise Research Centre (Warwick Business School in collaboration with Aston Business School) culminated in the announcement that Warwick had been selected as the home for a new £92 million National Automotive Innovation Campus (NAIC) funded by the Government, Jaguar Land Rover and Tata Motors.

At home, the University completed the institutional review of its teaching and learning provision and began to implement the key changes which that review suggested. Warwick is now the number one choice of top employers for graduate recruitment and we are determined that our students should continue to enjoy the best possible Warwick experience.

This Review describes in more detail all these developments. It charts the changes to campus in terms of new buildings opened in 2012, and the continuing development of our environmental strategy. Above all, it focuses on the activities of Warwick students, many of which are happening thanks to funds raised through our ‘50 Forward’ campaign. It reports their academic successes in terms of awards and prizes, their impressive volunteering activities, locally and further afield as part of our Warwick in Africa programme, and their contribution to the life of the Warwick community, officially recognised for the first time in 2012 by our Outstanding Student Contribution Awards. Our students are the University’s most important asset and I never cease to be amazed at their prowess and initiative.

I hope you will enjoy reading this account of the University of Warwick in 2012.

Professor Nigel Thrift
Vice-Chancellor and President
With the establishment of the Monash-Warwick Alliance and the inauguration of the Center for Urban Science and Progress (CUSP) project in New York, 2012 marked a step change in Warwick's global relationships.

**The Monash-Warwick Alliance**

The Monash-Warwick Alliance came into force at the beginning of 2012 – a ground-breaking agreement that redefines the concept of partnership and connectedness in higher education. Its aim is to address particular issues of the 21st century – increasing demands from students, industry and governments for universities to produce graduates with a global education, and to carry out research into strategically important problems. The Alliance provides for collaborative research in areas where the two universities have complementary skills and capabilities, for some joint senior appointments and for jointly delivered academic programmes. It aims to accelerate the exchange of people, ideas and information, offering enhanced opportunities for student exchanges as well as the development of virtual student mobility via the use of digital media: the intention is that students should enjoy a seamless international experience that will prepare them for a globally integrated job market.

2012 has been a year of progress in turning these aims into reality.

**Joint appointments**

In September, the Alliance appointed its first Academic Joint Vice-President and Director of the Monash-Warwick Alliance Strategy. Professor Andrew Coats, who formally takes up his appointment in February 2013, is a highly respected researcher and cardiologist, whose career has included high profile academic roles spanning three continents. As we write, the Universities are also in the process of making six joint appointments in chemistry, all at professorial level.

**Research collaboration**

In April, the UK's Engineering and Physical Sciences Research Council (EPSRC) gave a grant worth over £500,000 to help the Alliance build strong collaborative partnerships in areas of research strengths and strategic priorities – for example, sustainable chemistry, solar energy, innovative manufacturing, data management, high performance computing, materials and analytical science, and polymer science. This funding will enable the Alliance to move to a new level of research collaboration, developing more extensive and more intensive research links. It will also help each University to identify young research ‘stars’ who would particularly benefit from the experience of working in the other University. The Alliance has also received £200,000 from the Australian Research Council to build engineering collaboration.

A good example of how research collaboration might work in practice was given by Professor Swaran Singh of Warwick Medical School, who in May paid the first collaborative research visit to Monash since the Alliance was established. One of the research strengths of Warwick Medical School is in mental health and well-being, and Professor Singh discussed collaboration with Monash's Alfred Psychiatry Research Centre to develop strategies to combat schizophrenia.
Having been studying and living in the University of Warwick for over three months, I have fallen in love with the picturesque campus and the advanced academic teaching style. Living on campus makes it very convenient to be involved in a variety of activities. And the harmonious relationship between the members in my flat makes my life more joyful and colourful. The high level of academic teaching is way beyond my expectation. The professors and lecturers aim to help us build up a strong sense of advanced economic analysis. It is no exaggeration to say that my ability to understand and analyse economic problems has been enormously improved.

As the Li Xiaoming Scholarship holder, I am inspired to do my best in both study and regular daily life. This honour makes it easier for me to make a lot of friends and I have shared my experience with many other students who are now studying or will study in Warwick University. I want more people to know more about Li Xiaoming and the University of Warwick. I believe this will continue to motivate me to further my academic ambitions and to make a contribution to society.

**Li Ting**, Department of Economics
Winner of the first Li Xiaoming Scholarship
The student experience
The Monash-Warwick Alliance has already begun to have a direct effect on the experience of students in both institutions. Student mobility between the two universities has been boosted by a support grant of £66,000 from the Australian government. In July, Warwick students were able to participate directly in Monash’s ‘Green Steps’ programme held on campus: this was the first overseas version of a programme that Monash has run for the past 12 years, designed to equip participants with the skills and knowledge needed to create positive environmental change in organisations and communities. In October, the Chemistry Departments at both Universities used Warwick’s new International Video Portal to create an innovative interactive session for their students.

As well as innovative academic programmes, the Alliance is also pledged to introduce a joint PhD programme. The first joint Monash-Warwick PhD, in Arts and Humanities, is on course to begin recruiting in early 2013, and throughout the year Warwick’s other three faculties have been drawing up guidelines for joint PhDs in other academic areas.

Finally, one of the most important steps towards closer alignment between the two Universities was taken in October with the launch of the Monash-Warwick global undergraduate research journal. Reinvention: an international journal of undergraduate research now takes the place of the Reinvention journal run by Warwick for the past five years. It is an online, peer-reviewed journal, produced, edited and managed by students and staff from both Universities, dedicated to the publication of high quality undergraduate research. In the words of Professor Coats: ‘Reinvention is at the heart of what we’re trying to achieve – a student-led transnational initiative that enhances student skills and experience.’

The Warwick Prize for Writing, 2013
As a result of the Monash-Warwick Alliance, nominations for the 2013 Warwick Prize for Writing are now open to staff and students from Monash as well as Warwick. This will be the third Warwick Prize for Writing which is awarded every two years for an excellent and substantial piece of writing in the English language in any genre or form. The 2013 Prize was launched in November with the announcement of the three judges: writers Professor Ian Sansom and Professor Marina Warner, and Professor Ed Byrne, Vice-Chancellor of Monash.

Building new relationships
Warwick has collaborative links with more than 200 academic institutions worldwide. Examples of these are: over 200 partners for student and staff exchanges in Europe and further afield – Renmin University, Beijing, now regularly welcomes a party of Warwick undergraduates to its annual summer school; partnerships with European universities in the Erasmus Mundus scheme to develop joint postgraduate programmes; collaboration in postgraduate degrees such as the Joint Doctorate in Globalisation, EU and Multilateralism with Brussels, Rome and Geneva Universities with associate partners Waseda, Boston and Fudan, and the Double Master’s degree with Nanyang Technical University, Singapore, in Politics and International Studies; and Warwick Medical School’s collaboration with the Kaolinska

3rd bi-annual warwick prize for writing will include monash nominations

200+ university of warwick collaborative links worldwide

£66k support grant for the monash-warwick alliance from the australian government

‘Renmin University, Beijing, now regularly welcomes a party of Warwick undergraduates to its annual summer school.’
The Black Dog Institute of Sweden and the University of Malawi College of Health in an EU-funded programme to build capacity in infant and maternal healthcare in Malawi. During 2012, Warwick has been nurturing new relationships with institutions in Brazil. Following the creation in 2011 of the Brazil Partnership Fund, supported by Santander UK plc, over £50,000 has been provided to pump-prime collaboration and sharing of expertise with Brazilian universities. Six awards have been made to support collaboration with the Universities of São Paulo and Campinas, the federal Universities of Panama and of São Paulo, and the National Institute of Pure and Applied Mathematics; a further £30,000 has been made available for the academic year 2012-13. One fruitful area of collaboration is energy, and in September, Professor Phil Mawby represented Warwick at a UK universities low-carbon energy mission to Brazil. Warwick is also one of the universities selected by the Brazilian government to take part in its Science Without Borders Scholarship Scheme which supports Brazilian undergraduates and PhD students to study science, technology and mathematics at universities around the world. At a Brazil Networking event held in Radcliffe House in November, and hosted by Pro-Vice-Chancellor Professor Tim Jones (who will make a visit to Brazil in June 2013 to further collaborations and partnerships), the University was delighted to welcome seven visiting undergraduates sponsored by the Science Without Borders Scheme.

In March 2012, Vice-Chancellor and President Professor Nigel Thrift visited South Korea and signed a student exchange agreement with Seoul National University; Warwick looks forward to welcoming five Korean undergraduates coming to campus under this agreement in 2013. In October, Deputy Vice-Chancellor and Provost Koen Lamberts visited South Korea to take part in the International Presidential Forum on Global Research Universities of the Korean Advanced Institute of Science and Technology (KAIST) and subsequently signed a Memorandum of Understanding (MOU) with KAIST's president, Professor Suh. Warwick already has over 500 Korean alumni, and looks forward to developing closer relationships with both Seoul National University and KAIST.

International Summer School
In July 2012, Warwick hosted its inaugural international summer school – a concept that was first explored in the University Strategy, Vision 2015. Second and third year students from 13 different nationalities spent three weeks living on campus studying either ‘Writing Across Genres’ (a course in creative writing managed by the Institute for Advanced Teaching and Learning – IATL) or a Global Integrative Project managed by Warwick Business School. 48 contact hours featured lectures, seminars and practical workshops, including support for writing for academic purposes. There was also a full social programme, and a ‘buddying’ system set up by Warwick students was useful in breaking the ice and helping the visitors settle in. Warwick’s International Office provides six bursaries of £500 each to outstanding applicants for the summer school and recruitment is well under way for next summer’s event.

Warwick in Africa
2012 has been a record year for Warwick in Africa (WIA) – our unique international development programme started in 2006 that uses Warwick expertise to address the learning needs of pupils and teachers in Africa. Concentrating on improving skills in Maths and English, the programme has now benefited over 120,000 young people in Ghana, Tanzania and South Africa, and an Independent Review of WIA held in 2011 concluded that there was ‘overwhelming evidence that WIA students have made a significant impact in local schools’. This impact has been maintained for the seventh year running, with class attendance up by 50% and performance by between 30% and 40% - in fact, 2012 saw the highest improvement in learner results since the programme began.

One of the Review’s recommendations was greater involvement of local universities and students, and in 2012, when, for the first time, over 100 WIA teachers took part in the programme, this number included student and alumni teachers from the Universities of Stellenbosch, Venda and the National University of Singapore, as well as from
Warwick in Africa – 2012

Global Connections

Warwick. The Review also suggested that the impact of WIA could be further increased by expansion into more rural areas, so in 2012, with the support of the Institute of Physics, a pilot project was conducted with a school in rural Morogo, Tanzania. This was a great success and WIA is now teaching in 22 urban and rural schools: two new schools in South Africa were also added in 2012.

2012 launched a ground breaking partnership with Ernst and Young South Africa, when 23 of their young South African staff joined WIA to teach in two week blocks in Soweto and Alexandra townships and in schools in Johannesburg, Stellenbosch and Kayamandi. A new partnership has also been developed with the South African branch of management and technology consultants Detecon International; they kindly provided financial support for the master classes which help to update African teachers academically and pedagogically; they also hosted an event for township learners to broaden their experience and explore the possibilities of careers in IT/Telecom. WIA’s innovative partnership with Teach First, piloted in 2011, continues, with WIA now an official internship option for Teach First teachers.

Warwick in Africa is a philanthropically funded programme. None of the volunteers pays for their places, but each year’s group raises money for the following year’s cohort. This year’s WIA teachers raised a total of £44,000 for the 2013 teachers – a new record. This enthusiasm, plus the fact that 2012 produced the greatest number of WIA teachers wanting to return to the programme, gives some indication of what Warwick students gain from WIA: an opportunity to make a real difference, an experience which has often proved to be life-changing, new knowledge and skills. For some, it has proved the inspiration to make a career in teaching; for others, the experience is summed up by Emma Towlson, now a PhD student at Cambridge and a volunteer for WIA for four years: ‘It has pushed me to do some things which I am most proud of.’

Energy 2025


‘The Junior Commission has provided me with knowledge and experiences that I could never have acquired from anywhere else.’
In 2012, the international excellence of Warwick's research was recognised by the establishment of the Center for Urban Science and Progress (CUSP) and the National Automotive Innovation Campus (NAIC) – the first in New York, the second on the Warwick campus.

Global Research Priorities
2012 was a time of development and growth for Warwick's Global Research Priorities (GRPs), when they became firmly embedded in the University's research culture. Launched in 2011, the GRPs bring together research strengths from right across the University, giving them clear, thematic identities that show where Warwick can make a significant contribution to the resolution of some of the world’s most pressing issues. Currently focussed on six key areas of international significance – connecting cultures; energy; food; global governance; international development; materials; science and technology for health, and sustainable cities – the GRPs play a vital part in our drive to enhance the impact of our world-class research by addressing directly these important global challenges.

The Center for Urban Science and Progress
At the heart of the GRP ‘Sustainable Cities’ is CUSP – the Center for Urban Science and Progress currently being built in New York City. CUSP is an applied science research institute dedicated to researching and creating new solutions for the pressing and complex challenges confronting the world’s growing cities. At full strength, the Center will have 50 principal scientists (30 from the academic partners and 20 research staff from the industrial partners), over 400 Master’s students, 100 PhD students and 30 post-docs. CUSP is a significant component of New York’s Applied Sciences NYC Initiative. This research institute will spark new technologies, discoveries and innovations, will create new businesses and jobs, and will educate the workforce for the high-tech urban science sector. New research and technologies developed at CUSP are expected to generate $5.5 billion in economic activity and create a total of 7,700 jobs over the next 30 years.

Warwick is a member of the consortium chosen by New York City’s Mayor Bloomberg to bring this project to fruition. Other members of the Consortium working with New York City and the Metropolitan Transportation Authority are New York University, Carnegie Mellon University, University of Toronto, City University of New York, and the Indian Institute of Technology: Warwick is the only European university involved in the project. Industrial partners include IBM, Cisco, Siemens, Con Edison, National Grid and Xerox.

Since Mayor Bloomberg’s announcement in April 2012, work has begun on the 460,000 square foot campus in Downtown Brooklyn. CUSP’s Director has been appointed: Dr Steve Koonin, former US Under-Secretary of Energy for Science, Chief Scientist of BP and Provost of the Californian Institute of Technology. Warwick was delighted to welcome him to campus in November where he gave a Distinguished Lecture entitled ‘The Promise of Urban Science’. The University has also appointed its first two researchers to work at CUSP: computer scientist Dr Maria Liakata and engineer Dr Weisi Guo. Both will use New York City as a ‘living lab’, working with data provided by, for example, the Metropolitan Transportation Authority.

As well as offering enormous collaborative opportunities for Warwick, CUSP opens up enormous collaborative opportunities for Warwick, and offers exciting possibilities for our postgraduate students.'
Energy

Warwick has core strengths in several key areas of energy research, including power electronics, solar and thermal energy and confined fusion for clean energy; our current grant portfolio in energy research amounts to over £20 million, and we have strong links to industry and policy makers. Energy-related research at Warwick is a truly multi-disciplinary and multi-sectoral activity, given new cohesion by the creation of the Energy GRP.

2012 has seen important developments in energy research at Warwick. In March, Professor Jihong Wang, School of Engineering, was appointed to lead a team of experts from three UK universities to examine the technology and economics of energy storage – vital to maintaining a balance between supply and demand as green technologies such as wind power come on line in the next few decades. ‘Integrated market-fit and affordable grid-scale energy storage’ is a £3.7 million project funded by the EPSRC and Research Councils UK. Also involved from Warwick are Professors Phil Mawby and Robert Critoph (Engineering), Professor Michael Waterson (Economics) and Professor Robert MacKay (Mathematics); the team also includes members of the NERC British Geological Survey and 13 industrial partners.

In September, WMG – an international leader in low-carbon mobility – was identified as the seat of a new UK Energy Storage R&D Centre – a £13 million project co-funded by government and industry focussing on the advancement of batteries for electric and hybrid vehicles. WMG will work on the development of high performance batteries designed to be more economic and stable, but with higher density levels than those already on the market. Based within the High Value Manufacturing Catapult at WMG – a government funded Technology and Innovation Centre in which WMG is working with six other world leading research partners and the Technology Strategy Board – it will prioritise work on batteries for low and ultra-low carbon vehicles. The research has the potential to be extended to other transport applications and to technologies such as fuel cells.

Warwick academics are also co-operating with Western Power Distribution and Parsons Brinckerhoff in a £13.5 million project funded by Ofgen’s Low Carbon Network Fund to revolutionise Birmingham’s power network by using new, ground-breaking solutions to accommodate more low carbon electricity generation across the city. The University will receive up to £800,000 for its part in FlexDGrid, with the School of Engineering and Warwick Business School (WBS) making contributions to this flagship project. Professor Li Ran, School of Engineering, and his team will have a pivotal role in enabling more sources of renewable energy to be connected to Birmingham’s distribution network. Dr Monica Giuletti, from the Global Energy Group in WBS, will assess the socio-economic impact of the project, particularly on low income households in the city.

The National Automotive Innovation Campus (NAIC)

WMG, through its research and innovative partnerships with industry, has played a major role in the revival of the British motor industry. Further recognition of WMG’s achievements came in the announcement in October that Warwick had been selected to be the home of a new £92 million National Automotive Innovation Campus. Funded by the Government’s UK Research Partnership Investment Fund, Jaguar Land Rover, and Tata Motors, it will create and develop novel technologies to reduce our dependency on fossil fuels and reduce carbon emissions; it will also help to develop a stronger supplier base in the UK and address a shortage of skilled staff in the automotive supply chain, including the creation of apprenticeships – an immediate link to WMG’s Academy for Young Engineers, to be constructed on a site close to the Warwick campus. The new National Automotive Innovation Campus underpins WMG’s research programme as well as the research strategy of the University as a whole.

Artist’s impression of the £92m National Automotive Innovation Campus

`Warwick has core strengths in several key areas of energy research, including power electronics, solar and thermal energy and confined fusion for clean energy’
‘Connecting Cultures’, one of the Global Research Priorities currently identified by the University, is a network of Warwick scholars and researchers whose aim is to bring together expertise from across all faculties. Its focus is on inter- and multi-disciplinary areas linked to broad definitions of the notion of “culture”, including national and transnational cultural phenomena, professional and disciplinary cultures, cultural heritages...

Over the past year, our activities have focused on five key sub-themes: cultural value, cultures of translation, medicine and culture, memory and culture, postcolonial studies. Research in all of these areas shares an interest in spatial perspectives and modes of cultural exchange, in the historical dimension of cultural traditions as well as cultural change and transformation, and on the social impact of cultural practices.

Initiatives supported by ‘Connecting Cultures’ stem from a genuinely bottom-up approach. An on-going census of staff profiles aims to identify and bring together strands of research being developed within the University, while initiatives supported by the programme have included meetings, workshops and seminars providing focus and structure for interdepartmental activities, funding bids, and internal as well as external collaborations. Prominent areas in the first year of the programme included the crisis of European cosmopolitanism, translation and migration, the impact of modernity on European cities, community memory and activism, and the history of foreign language teaching.

Dr Loredana Polezzi, Department of Italian
Academic Lead of the Connecting Cultures GRP
In November, the world’s first Behavioural Design Lab was formed – the result of a pioneering collaboration between Warwick Business School (WBS) and the Design Council. The Lab brings together research from WBS’s Behavioural Science Group with the power of design. Behavioural Science is a rapidly expanding part of the WBS research profile. It seeks to link the theoretical and policy challenges in the social sciences with experimental methods and results derived from natural sciences; it uses controlled experimental studies to identify the key drivers of behaviour – the crucial factors that determine people’s judgements, choices and experience. The Behavioural Design Lab aims to help organisations transform a better understanding of people into innovative solutions that will impact on society: understanding why and how people make decisions will be combined with the design of products, services and places to help them make better decisions. Edward Gardiner, the WBS Lead in the partnership, believes that this will prove to be a more effective way of changing behaviour than simply providing more and more government advice and information, which seems to have had little positive effect. Issues that the Lab will address include binge drinking, the impact of the internet on teenagers, and energy consumption.

The Enterprise Research Centre
Recently launched by WBS in partnership with Aston Business School is the Enterprise Research Centre (ERC), which aims to boost the performance of the UK’s SMEs. Directed by Professor Stephen Roger (Professor of Enterprise and Director of the Centre for Small and Medium-Sized Enterprises at WBS), this £2.9 million centre conducts research to inform government policy, creating an environment where SMEs and entrepreneurs can flourish, thus supporting the UK’s economic recovery. Research within ERC focuses on entrepreneurial ambition, leadership capabilities in SMEs’ management teams, the impact of diversity on SME start-up and growth, the financing of growth companies, innovation and exporting of SMEs and their role in UK jobs growth. The Centre is funded by the Department for Business, Innovation and Skills, the British Bankers Association, the Economic and Social Research Council (ESRC) and the Technology Strategy Board. Warwick and Aston will work alongside a consortium of UK universities including Strathclyde, Birmingham, De Montfort and Imperial College Business School.

Multicultural Shakespeare, 1930-2010
This is a major research project in the Department of English and Comparative Literary Studies, funded by a large Arts and Humanities Research Council (AHRC) grant. The three year project will map the history of non-white actors’ and directors’ growing role in British cultural life over several generations, by examining their involvement in the performance and reinterpretation of Shakespeare’s plays. The project takes as its starting point 1930, when Paul Robeson played ‘Othello’ at the Savoy Theatre. It is led by Professor Tony Howard, who has worked extensively on Paul Robeson’s life as a singer, actor and blacklisted human rights activist. Professor Howard’s work resulted in exhibitions, a drama-documentary involving some of Britain’s leading black actors and a BBC Radio 2 documentary, The Robeson Files. In December, the Multicultural Shakespeare project was launched in Warwick Arts Centre with To Tell My Story, an exhibition celebrating multicultural achievements in Shakespeare performance over several generations.

‘In November, the world’s first Behavioural Design Lab was formed – the result of a pioneering collaboration between Warwick Business School and the Design Council.’

‘The three year project will map the history of non-white actors’ and directors’ growing role in British cultural life over several generations, by examining their involvement in the performance and reinterpretation of Shakespeare’s plays.’
Partnership with Liverpool School of Tropical Medicine

In the spring, the University announced a new partnership with the Liverpool School of Tropical Medicine (LSTM) – a leading innovator in global health with a £268 million research portfolio. This £3 million collaboration builds on complementary strengths in the two institutions in fields such as global health epidemiology and health economics, and has already resulted in the creation of 15 joint appointments. A further development is the recent launch of the Centre for Applied Health Research and Delivery – a joint venture between Warwick Medical School (WMS) and LSTM aiming to explore complementary areas of research and capacity development, with the vision of contributing to a healthy future for low and middle income populations. The Centre will work particularly with resource poor nations, giving WMS the opportunity to widen its participation in international health.

Research for Africa – a home-based test for HIV

WMS works extensively in Africa: it is heavily involved in CARTA (The Consortium for Advanced Research Training in Africa), and has a major research and teaching programme that seeks to address the problem of maternal and infant mortality in Malawi (the ETATMBA Programme). 2012 saw WMS embark on a major research programme, funded by the Wellcome Trust, to investigate the costs and benefits of home-based HIV testing in Malawi. The programme is led by Hendy Maheswaran, a Wellcome Trust Research Training Fellow and Public Health Doctor at WMS, who believes that for many people in Malawi the long trip to the doctor or hospital is an obstacle to seeking early treatment. This is a collaborative project with LSTM and the College of Medicine in Malawi.

Supervised HIV self-testing in Malawi

Partnership with Queen Mary University of London

In 2012, Warwick and Queen Mary agreed to collaborate in specific areas, believing that such a partnership would enable them to access research and teaching opportunities that might not be attainable independently. The agreement builds on existing areas of academic collaboration in fields such as public health and scientific computing. Eight new joint postdoctoral research posts have now been created in four interdisciplinary fields of activity: discrete mathematics and its applications; ethnicity and mental health and well-being in post-war Britain; functional molecular materials for energy and sensor applications; Renaissance cultural networks and information technologies.

Research Awards

Professor Peter Topping, Mathematics Institute, won a £1.5 million EPSRC Programme Grant for a five year study of Singularities of Geometric Partial Differential Equations.

An EPSRC Programme Grant of £2.4 million was awarded to Professor Gareth Roberts, Director of the Centre for Research in Statistical Methodology (CRISM) for a study entitled ‘Intractable Likelihood: New Challenges from Modern Applications’.

ERC Fellowship of £1.2 million awarded to Giovanni Constantini, Department of Chemistry

BBSRC sLoLa (strategic Longer and Larger grant) of £1.3 million awarded to Professor Greg Challis, Department of Chemistry

Royal Society University Research Fellowships awarded to Dr David Loeffler, Mathematics Institute; Dr Gavin Morley, Department of Physics; Dr Rebecca Notman, Department of Chemistry; Dr Vardis Ntoukakis, School of Life Sciences.

European Research Council Advanced Fellowship won by Professor David Preiss, Mathematics Institute

Leverhulme Research Fellowship won by Dr Ben Clift, Department of Politics and International Studies

European Research Council Advanced Investigator Awards went to Professor Ian Melbourne, Mathematics institute, Professor Boris Caensicke, and Professor Valery Nakariakov, both of the Department of Physics.
2012 saw the completion of the Institutional Review – a unique project in which students joined staff to assess Warwick’s teaching and learning.

The Institutional Review
This large-scale, concentrated review of all undergraduate, postgraduate and post-experience provision across the University began in November 2011. Over three days, panels of staff, students and external members reviewed 30 academic departments; in March 2012, this was followed up by three Faculty Engagements (Arts, Science and Medicine, Social Sciences) which focussed on the sharing of good practice and innovation in teaching and learning identified during the departmental reviews. The presence of students as members of the review panels and as active participants in the Faculty Engagements was crucial to the whole process, putting the student perspective at its heart.

The Institutional Review provided a snapshot of teaching and learning at all levels, right across the University, allowing us to take a strategic and holistic approach, as well as identifying best practice and innovation and agreeing on priorities at departmental, faculty and University level. It affirmed the high quality of teaching and learning at Warwick and highlighted the distinctive characteristics of a Warwick education – research-based learning, internationalism, and, above all, student involvement in the creation of a diverse and globally connected learning community. The outcomes of the review have fed into the revision of the University’s Teaching and Learning Strategy and will thus enable us to continue to offer our students an excellent experience in the years to come.

Sharing good practice
One of the most valuable aspects of the Institutional Review was the identification of good practice that could be disseminated across the University. Departments were quick to act upon this. For example, in January 2012, Dr Andrew Clark, Director of Undergraduate Studies in Chemistry, was inspired by his experience as a panel member for the review of French Studies to amend the system by which Chemistry students interact with their personal tutors, so that it reflected the good practice he had encountered in French Studies. Andrew comments: ‘This illustrates the values of the recent Institutional Review. In fact, it highlights the success of Warwick in disseminating good practice generally. It seems that the process was first implemented in the German Department, it was spread to the French Department via the Arts Faculty Teaching and Learning Forum and then evolved again to our system in Chemistry.’

Student involvement
At Warwick, teaching and learning are conducted via continuous engagement with our students. Our long established Staff Student Liaison Committees (SSLCs) provide an accessible arena for students and staff to discuss regularly all issues connected with teaching and learning. In January, the Students’ Union held its first Education Convention, where 100 SSLC representatives met with other students and senior University officials to give direct feedback on teaching and learning and on central services to students. This provided valuable insight into student priorities and expectations on questions such as feedback on work, contact hours and assessment.

‘At Warwick, teaching and learning are conducted via continuous engagement with our students.’
As a PhD student in the Department of French Studies, I have found that my research connects well with my love of teaching. The opportunity to share my enthusiasm for modern French politics and history with engaged and motivated students has allowed me to develop a range of teaching resources, making wide use of audio-visual materials to try to bring the subject to life. Drawing on authentic newsreel and documentary footage, I have incorporated my research into the propaganda of the Vichy regime in France (1940-1944) in my teaching at first and second-year undergraduate level. I believe that my teaching experience at Warwick has offered me an invaluable insight into the importance of research-led teaching which will be of great benefit in the future.

In 2012, I was one of five inaugural winners of the Warwick Awards for Teaching Excellence for PGR students co-ordinated by the Learning and Development Centre. This recognition of my interest in teaching and learning has offered me encouragement to try out innovative teaching techniques during the current academic year, including experiments in open-space learning. The Learning and Development Centre team have provided an invaluable sounding board for teaching ideas throughout my postgraduate career and have most recently advised on the process of applying for Associate Fellowship of the Higher Education Academy. The recent redesign of the Innovative Teaching Database has proved highly fruitful in my continual professional development, since I have employed some of the techniques recommended by experienced colleagues in my own teaching.

David Lees, Department of French Studies
WATEPGR Winner, 2012
The University of Warwick Annual Review 2012

Teaching and Learning

Student Community Statement
In October, Vice-Chancellor and President, Professor Nigel Thrift, and Students’ Union President, Nick Swain, signed the Warwick Student Community Statement. One of the key commitments in this statement is to provide relevant and meaningful feedback on work within a reasonable timescale, and the University has been working with Heads of Departments to ensure this commitment is met. To help highlight and spread good practice, in October the University and the Students’ Union launched a competition to identify ‘Fabulous Feedback’, which will run until March 2013.

Celebrating excellent teaching
The Warwick Awards for Teaching Excellence, now in their sixth year, were joined in 2012 by a new award for postgraduate teachers – the Warwick Awards for Teaching Excellence for Postgraduate Research Students. These recognise the invaluable work done by postgraduate research students in teaching undergraduates and in exposing them to the minute research. Nominations for these postgraduate awards, like the original awards, are made by both staff and students.

Warwick Awards for Teaching Excellence in 2012 were won by:
Mr Nick Barker, Department of Chemistry (The Butterworth Award)
Dr Catherine Hampton, Department of French Studies
Dr Cathia Jenainati, Department of English and Comparative Literary Studies
Tim White, School of Theatre, Performance and Cultural Policy Studies

Warwick Awards for Teaching Excellence for Postgraduate Research Students were made to:
David Lees, Department of French Studies
Samantha Lyle, Department of Sociology
Adam Slavny, School of Law
Paul Whitehouse, Department of English and Comparative Literary Studies
Rebecca Wills, Department of Chemistry

Promoting undergraduate research
Warwick is committed to the encouragement of undergraduate research, which enables students to become active learners and to enter the wider academic world of their subjects. In March, the University hosted the British Conference of Undergraduate Research and has awarded around 130 Undergraduate Research Scholarships, each worth £1000, for the academic year 2012-13. In July, the International Medieval Conference at Leeds heard a presentation from three Warwick undergraduates on a research project at the Abbey of Pontigny, France. History of Art students Lucy Henderson, Rose Harris Adamson and Gabriella Marchini were awarded Undergraduate Research Scholarships which enabled them to become part of a research team analysing constructional and masons’ marks on the fabric of the church to test the theory that the entire building was constructed in a single campaign.

Supporting postgraduate researchers
Postgraduate researchers form the bedrock of University research teams and contribute enormously to Warwick’s dynamic research culture. The University is committed to doubling its postgraduate research population by 2015, and we are well on the way to achieving this goal. In 2012, the University announced a further injection of £700,000 into its Chancellor’s Scholarships and Chancellor’s International Scholarship Schemes. The University has already invested around £2.8 million in these scholarships which are awarded to outstanding PhD applicants. Successful applicants from 2013 onwards will now be funded for 3.5 years instead of three.

The Abbey of Pontigny: an undergraduate research project by History of Art students

‘Warwick is committed to the encouragement of undergraduate research, which enables students to become active learners and to enter the wider academic world of their subjects.’

130 Undergraduate Scholarships Worth £1000 Each Awarded For 2012-13

‘The University is committed to doubling its postgraduate research population by 2015, and we are well on the way to achieving this goal.’

£700k Investment in Chancellor’s Scholarship Schemes Announced
Wolfson Postgraduate Scholarships
Warwick has won three prestigious Wolfson Postgraduate Scholarships in the Humanities – a scheme introduced by the Wolfson Foundation to reflect its concern about funding for the Humanities and the impact of undergraduate fees on postgraduate studies. The first three Warwick scholars began their doctoral research in October; they are working in literature, languages and history. Warwick was one of only nine universities chosen by the Wolfson Foundation to host this new programme – a fact that reflects the eminence of our work in the Humanities. Another three Wolfson scholars will start work in October 2013.

21st century learning resources
Open-space learning
Warwick has pioneered open-space learning: the concept of teaching areas where spaces and furniture can be reconfigured at will to promote enactive, experiential learning that uses drama, role-play and simulation. IATL – the Institute for Advanced Teaching and Learning – has been instrumental in developing and supporting open-space learning across the University, and in planning the refurbishment of the Ramphal Building according to these principles. This £1 million project funded by the University saw the transformation of the atrium and classrooms of the University’s flagship building: teaching rooms can now be configured in a range of different ways to support different styles of teaching and learning; an international hub provides a suite of video conferencing facilities to enable teaching to be shared between Warwick and international partners such as Monash; the balcony has been reorganised to provide a series of bays for individual or group work. In its new configuration, the Ramphal Building has now been in use for a term and a questionnaire has been sent out to assess the reactions of its users. The responses will inform the University’s thinking as it seeks to roll out these ideas to other learning spaces on campus.

Replicating the Learning Grid
Warwick also pioneered the Learning Grid – a high-tech, multi-media environment providing space for individual study, group and presentation work. 2012 saw the beginning of work to create a third Learning Grid on campus, an addition to the original facility in University House and the Bio-Med Grid at Gibbet Hill. This will be based on the ground floor of Rootes and is expected to be completed by April 2013. At the beginning of November, the University opened its first learning space outside campus. The Leamington Learning Grid, based in the town hall in Leamington Spa, provides high-tech facilities for study and group work for more than 50 students; Leamington has long been a popular place to live for second and third year students, and this facility offers a place to study without having to travel to campus, and away from the distractions of studying at home.

£936k invested in interactive computation learning suite in life sciences opened in June 2012

£1m refurbishment of Ramphal building provides innovative, flexible learning spaces and international hub with video conferencing suite

£50 high-tech study and group work student spaces provided in the Leamington Learning Grid
New chemistry laboratories

This £1.5 million suite of chemistry labs was completed in September 2012. They provide a world-class facility for teaching physical chemistry and chemical biology at undergraduate level, complementing the refurbishment of the other undergraduate chemistry labs which was carried out two years ago. Warwick now has one of the best facilities for undergraduate chemistry in the UK.

The Postgraduate Hub

Warwick’s newest postgraduate space – the Postgraduate Hub – was opened in March. Representing an investment of £450k, it is a work, study and networking facility for all postgraduate students, whether taught Master’s or research. Situated at the heart of campus, it offers different kinds of spaces, all comfortably furnished and equipped with the latest technology, and is designed for the whole context of postgraduate life, not just for study. So, for instance, a Dissertation Station has been introduced to help taught Master’s students with the transition from the taught part of their course to the research element that culminates in the dissertation; there is a regular surgery run by Professor Jackie Labbe, Head of the Graduate School, and there is also ‘Compass’ – an event series for Master’s and research students that brings together experts from around the University with fellow postgraduates.

Widening participation

The Teaching and Learning Strategy, revised after the Institutional Review, affirms Warwick’s determination to extend the range of its widening participation schemes. 2012 saw the launch of the Student Progression Ambassadors Scheme – a collaborative development with Coventry University that places current students from both universities in selected schools in the local region. The student ambassadors act as mentors to small groups of Year 9 to 11 students from a widening participation background. They provide positive role models, offering support at key decision points to encourage progression to higher education as well as focussing on study skills and career options. The student ambassadors receive training before working with groups of around 20 students for a period of eight to ten weeks.

Schoolgirls visit CERN

The Department of Physics and the Widening Participation team, in collaboration with the National HE STEM Programme and Talent 2030, organised a visit to the European Organisation for Nuclear Research (CERN) for 20 Year 9 girls in July. This was part of the initiative to involve more girls in the STEM subjects (science, technology, engineering and mathematics). The 14-year-old schoolgirls were chosen as a result of a competition to demonstrate interest in physics and engineering. At CERN, they were able to meet and question scientists working there, including Warwick staff and alumni.

Schoolgirls visit CERN
Lifelong learning

In December, Warwick announced its participation, along with other leading UK universities, in a project to give students in the UK and around the world access to free, open, online courses through a new company being launched by the Open University – Futurelearn Ltd. With its strong record of expertise in delivering online and distance learning – for example, Warwick Business School’s long established Distance Learning MBA, IGGY, and most recently the Teaching Shakespeare project (described below) – Warwick will be an enthusiastic participant in this venture. Massive Open Online Courses (MOOCs) are expected to be launched in 2013 and will substantially increase access to higher education for students around the world.

Teaching Shakespeare – innovation in professional development

February saw the launch of the ‘Teaching Shakespeare’ programme, a unique course for school teachers around the world which helps them to engage their pupils with Shakespeare in an entirely new way. The result of a ground-breaking collaboration between the University and the Royal Shakespeare Company (RSC), the course brings to the classroom the techniques of the rehearsal room, where actors and directors engage in speaking the text out loud, unlocking its meaning and collaborating to make it their own. A special programme of online courses, exclusive videos and podcasts with celebrated actors and directors combines the RSC’s rigorous, creative and playful approaches to learning with the University’s world-leading scholarship. Teachers can access the films and accompanying materials as a unique set of resources to help them in the classroom, or take a Postgraduate Award in the Teaching of Shakespeare, providing a route to an MA. This is a truly interdisciplinary venture, involving Warwick Business School, with its distance learning expertise and technology, Warwick Institute of Education and the Department of English and Comparative Literary Studies. ‘Teaching Shakespeare’ has had an excellent reception from teachers across the world, and at the end of the year, we learned that it had been nominated for a top digital education award for 2013.

Fact File

The Institutional Review – 30 academic department reviews in 3 days (November 2011), plus three faculty engagements (March 2012)

January – Students’ Union held first Education Convention

February – University and Royal Shakespeare Company launch ‘Teaching Shakespeare’ Programme

March – Opening of £450k Postgraduate Hub on central campus; British Conference of Undergraduate Research hosted at Warwick

June – opening of £936,000 Interactive Computation Learning Suite in Life Sciences

November – opening of Leamington Learning Grid

130 Undergraduate Research Scholarships awarded for 2012-13

£1 million refurbishment of Ramphal Building to provide innovative, flexible learning spaces and international hub with video conferencing suite
EMPLOYABILITY

The University of Warwick is now the Number One target for graduate recruitment by top employers.

Warwick is proud to have been named the Number One target for graduate recruitment by the UK’s top employers – a list of 100 companies that includes the Civil Service, BP, IBM and Goldman Sachs. The University also remains one of the six UK universities in the ‘inner circle’ from which top city firms recruit. This position is undoubtedly the result of the quality of the student experience at Warwick, characterised by the high academic content of Warwick degrees; research-led teaching methods; the development through academic study of presentation, communication and writing skills; the opportunities for undergraduates to engage in genuine research; involvement in a host of extra-curricular activities, such as the 240 Students’ Union clubs and societies, part-time work through the University’s on-campus agency Unitemps, and volunteering opportunities via Warwick Volunteers. It also reflects the involvement of Student Careers and Skills, which works with students to enable them to get the most out of their Warwick experience, providing sessions to improve academic writing, self-organisation, critical thinking, participation in seminars and revision. In 2012, Student Careers and Skills again welcomed over 300 employers to campus to promote opportunities and internship, hosting five major recruitment and information fairs as well as smaller, targeted events on campus.

The Warwick Advantage/Global Advantage Awards

In 2012, 91 students submitted entries and gained an elite Warwick Advantage or Global Advantage Award. Warwick Advantage Awards give formal recognition and reward for students’ extra-curricular involvement, providing them with the opportunity to reflect on and capture their unique skills in preparation for job applications and interviews. Warwick was the first university to introduce Global Advantage Awards in recognition of the fact that many Warwick students enter the international job market.

These Awards recognise the development of students’ global capabilities through interacting with people from different nationalities and cultures, perhaps through a work placement, through volunteering overseas or by completing an international research project. Endorsed by Student Careers and Skills, the Students’ Union, and recognised by graduate recruiters, the Advantage Awards undoubtedly give Warwick students an ‘edge’ in the very competitive jobs market.

Work placements and internships

In the graduate job market, students with work experience to their credit have an immediate advantage. Recognising this, and capitalising on its existing relationships with over 1000 local, national and international employers, the University set up in 2012 its Placement Learning Unit. Established in Student Careers and Skills and supported by a Placement Learning Team, the Unit focuses on supporting student employability through promoting the availability, student awareness and take-up of quality assured internships and work experience. This kind of work experience is additional to that already established within many Warwick degree courses – through years abroad, for example, professional or clinical experience or intercalated years in industry. It therefore reaches out to those students who might otherwise graduate without completing a placement or internship and without this opportunity to gain the confidence, knowledge, skills, and networks to support entry into their chosen graduate employment or further study. The University provides bursaries of up to £200 to help with unpaid work experience. In the summer of 2012, 250 students received funding for internships, 50 of which were outside the UK, while 40 graduates had four-week paid internships with regional employers.
For seven weeks over the past summer I worked for Coca-Cola’s marketing department in the Sustainability sector – ‘Live Positively’ – in Toronto, Canada. I was the winner of the 2012 Brad Clemes Internship, something that really took me by surprise as an arts student! I was given a huge degree of autonomy over my work and was able to manage my time between various tasks including market research on other Canadian companies’ Corporate Social Responsibility policies and the creation of presentations for meetings with Coca-Cola Canada’s various partner charities. I was also given the opportunity to work with the Diet Coke brand on the Toronto Film Festival, attending exclusive screenings and selecting films to send Diet Coke competition winners to. The whole experience was incredibly interesting and illuminating, and really showed me that with the skills learnt from any arts degree, students can fit well into a huge variety of roles within the business world. Testing my abilities within such a well-known company was a daunting but incredibly rewarding experience, one I know will stand me in great stead to better understand the world of work I hope to enter on graduating.

Hannah Thomas, English and Theatre Studies undergraduate
Winner of the 2012 Brad Clemes Internship
PUBLIC ENGAGEMENT

Warwick makes an important contribution to the life and work of our local community in Coventry, Warwickshire and in the wider region.

We contribute economically (for example, the University is the third largest employer in Coventry), educationally (through our work with local schools, and our lifelong learning programmes) and culturally, through Warwick Arts Centre and the musical and dramatic activities of our students. WBS and WMG work extensively with local and regional businesses, while Warwick Medical School works with NHS bodies across the Midlands. The University is a full partner in the Coventry and Warwickshire Local Enterprise Partnership, and a partner in several NHS bodies. It supports a wide range of local strategic business partnership bodies such as the Coventry Partnership and Warwickshire Together, and maintains a regular, ongoing liaison with local authorities. On a wider scale, members of the University contribute their expertise to government, national bodies and think tanks. Against this background, we highlight some of the key developments of 2012.

The work of Warwick Volunteers was recognised in the Santander Awards, where they won the Create a Project Competition, designed to develop student-led community projects to benefit the community around the University. The winning team was from Warwick Rowing Club: 'Project Oarsome', created by Chris Primett, provided virtual rowing races in local primary schools for around 500 children, to increase participation in physical activity. In the Volunteering England Gold Awards – the national mark of excellence in volunteering – 18 members of Warwick Volunteers received awards for their outstanding contributions to the community.

2012 also saw the introduction of the Lloyds Scholars programme. The first 15 Scholars have all identified projects, which include working with a local youth club, taking the lead on a new wildlife pond creation scheme in Canley, supporting the Warwickshire Heritage and Culture Department and a variety of projects within the Children’s University scheme. A further development was the launch of the Santander funded scheme to enable students to undertake Level 1 sports coaching qualifications, enabling Warwick Volunteers to expand its successful community coaching programme.

On a cold January day, student volunteers joined local Canley residents to plant over 450 trees at Canley Brook to help brighten up the area. The venture was backed by the Woodland Trust as part of the Jubilee Wood project.

| Number of Warwick Volunteers who received awards for their outstanding contributions to the community in 2012 | 18 |
| Number of Primary School children participating in virtual rowing races | 500 |
| Approximate number of students who became volunteers in 2012 | 2,500 |
| Year-on-year rise in student volunteers | 12% |
I have been an active volunteer with Warwick Volunteers since my first year, where I was involved with the Mentoring Project. The aim was to inspire students in Coventry schools to consider their future careers and the many options within higher education. This was an amazing opportunity to share my own experience of Warwick. It was a student-led project and I was selected to continue its success, as Project Leader, into my second year. My new role enabled me to learn many valuable skills such as leadership and project management. For my final year I was elected President of the Student Executive Committee. This has been a unique opportunity to work with staff within Warwick Volunteers who, through their passion and dedication, ensure that over 2,500 Warwick students have successful volunteering placements. It has been rewarding to read all the encouraging feedback we receive from schools, community partners and university students about the positive impact Warwick Volunteers has had on themselves or their organisation. Being a part of the Warwick Volunteers community has been the most fulfilling aspect of my university experience; through the challenges and opportunities it provides, I, and many others, have gained skills for the future and made a real difference to the community that surrounds our University.

Rianna Kelly, final year Mathematics and Physics student
President of the Warwick Volunteers Student Executive Committee
The Physics Christmas Lectures
A series of public lectures by the Physics Department, just before Christmas, attracted more than 800 people, including large numbers of local school children. Welcomed with mince pies and special treats for children, the audiences heard Dr Daniel Scully explain the Higgs Boson, accompanied Dr Boris Gaensicke on a tour into the distant future of our solar system, and joined Dr Rachel Edwards and Dr Andy Howes (introduced as 'Super Andy') as she tackled the intriguing subject 'Physics Tricks and Flying Frogs'. This last lecture, which included enthusiastic audience participation, was so popular that it had to be moved to a larger lecture theatre.

These lectures are part of the Physics Outreach programme, organised by the Department's Ogden Trust Science Officer, Ally Caldicote.

The WMG Academy for Young Engineers
Building work will commence in autumn 2013 on this innovative project, which offers a new approach to learning for local teenagers with an interest in engineering. Approved under the Government’s academies programme and backed by over 40 local institutions including Jaguar Land Rover and the National Grid, the Academy will provide places for 640 local students aged between 14 and 19. It will offer a business-led and business-like education focussed on engineering and applied digital technology, designed to provide a better way of learning and better employment opportunities. The state-of-the-art school is being constructed on a site close to the University campus and is scheduled to begin teaching in September 2014.

The Wider Region
An Olympics training venue
The Football Games of the 2012 Olympics were hosted by the city of Coventry and Warwick was selected as an official training venue. Teams trained on the University’s pitches, which meet FIFA regulations for international competitions. The University’s Security staff, Estates and Sports teams all worked hard to make this experience so successful for the University itself and for the wider region.

Warwick Arts Centre
Warwick Arts Centre continued to entertain and educate the region with an international programme of theatre, dance, comedy, music, film and visual art. Despite the challenging economic climate, admission to Arts Centre events increased by 3% during 2011-2012; indeed the Mead Gallery achieved record attendance figures for ‘The Indiscipline of Painting’ which attracted around 7,600 visitors. The Arts Centre also completed the Transform project – an Arts Council England pilot action research programme to support the growth and development of arts organisations; this has resulted in a new business plan that provides Warwick Arts Centre with a springboard for its future development.

Highlights of the year illustrate the Arts Centre’s deep involvement with the cultural life of the West Midlands region, particularly its work with children and young people. Warwick Arts Centre works annually with around 18,000 children and young people from Coventry, Warwickshire and beyond.
The Coventry Community Cohesion Award 2012
In October, Warwick Arts Centre won the Coventry Community Cohesion Award 2012 for Best Arts Project. This was the Design and Paint Project, involving pupils from the three schools nearest to the University – Westwood Academy, Charter Primary School and Cannon Park Primary School – who designed and painted artwork on the hoardings round Warwick’s new student residences. The children visited campus, talked to students about student life, and then, supported by artist Jo Buffery, planned and executed their design. The Project, which was supported by Shepherd Construction and the University’s Widening Participation Group, was a way of raising aspirations and teaching the children about university, as well as engaging them artistically.

Boys Dancing Project
2012 saw the culmination of this three-year project, created with funding from Dancing for the Games, and engaging some 700 boys from across the West Midlands. The theme of the project was how one person might contribute to social change, with the boys’ thoughts expressed through dance. The climax of the project was the creation of ‘The Quiet Man Suite’ – six short films made by the boys with a team of dancers, film makers, composers and dance apprentices, filmed on regional locations such as the rooftop of Fort Dunlop in Birmingham. The films were premiered to over 1,500 participants, their families and friends, at seven locations across the West Midlands.

In 2011-12, Warwick Arts Centre took steps towards becoming a more active co-producer and commissioner of new works, developing long-term relationships with artists, companies, other venues and festivals:

This is Tomorrow
This is a new project about artists and academics working together to explore and illuminate contemporary thinking about the human condition and the issues facing humanity. A pilot project in March involved playwright Rebecca Lenkiewicz, composer Dan Jones and children’s theatre specialist Sue Buckmaster, working with academics from Law, Warwick Business School, Economics, Mathematics and Physics. Together they explored areas of research to deliver sound/sonic art pieces described as ‘premonitions’.

In November, artist Emma McNally was resident in one of the University’s listed Maths houses (built 1968-69), and created some delicate white chalk drawings on the long curving blackboards which are a feature of the Maths houses.

Triggered@Warwick
2011-12 also saw new commissioning through the ‘Triggered@Warwick’ project. Warwick Arts Centre, working with Associate Producers China Plate, supported five new projects, one of which – ‘Mess’ by Caroline Horton – won an award at the 2012 Edinburgh Fringe Festival. ‘Triggered@Warwick’ seeks to respond to artistic ideas at an early stage, providing companies and artists with time, space, production support and financial investment.

WBS Business Breakfasts
Throughout 2012, Warwick Business School held a series of Business Breakfasts in Birmingham, designed to share the School’s cutting-edge research with the Midlands Business Community. Open to senior members of the WBS’s community and business leaders with senior positions in large organisations or local government in and around Birmingham, these occasions also offered opportunities for senior level networking. So the first meeting, in January, hosted a panel consisting of Professor Nick Chater, head of the WBS Behavioural Science Group, Marc Reeves, publisher, The West Midlands Business Desk.com, and Rory Sutherland, Vice-Chairman of Ogilvy Group UK, which discussed ‘The Dynamics of Customer Choice’. Reports from these breakfast meetings are made available electronically by WBS.

The Birmingham Future Commission
This was a commission set up in 2012 to investigate how Birmingham can attract and retain the very best young professional talent, a key factor in generating wealth and influence for the city. University Pro-Chancellor Sir George Cox chaired this Commission, while its academic members were Michael Synnot, Senior Teaching Fellow at WBS, and Professor Stephen Roper, Head of WBS’s Centre for Small and Medium-Sized Enterprises. The Commission took evidence, locally, nationally and internationally and is due to report in 2013.
At the national level

The Warwick Commission on Elected Mayors

The third Warwick Commission reported in April, at a time when ten English cities were getting ready to vote on whether or not to have elected mayors. Directed by Professor Keith Grint, Professor of Public Leadership and Management at WBS, and chaired by Professor Wyn Grant of the Department of Politics and International Studies, the Warwick Commission on Elected Mayors and City Leadership included external experts on cities, on local government, politics and finance. It took as its central question: ‘What is the role of elected mayors in providing leadership to cities?’ The Commission interviewed 42 mayors, staff and senior council figures in the UK, Canada, Australia, New Zealand and the USA, investigating the track records and experiences of elected mayors around the world.

In its report, the Commission warned that the government’s drive to encourage cities to adopt elected mayors could not provide a ‘one-size-fits-all’ solution. While directly elected mayors offered the possibility of greater visibility, accountability and co-ordinated leadership derived from their relative independence from party discipline through their direct mandate and four-year term, some cities may already have vigorous and strategic leadership and a significant identity. It concluded that elected mayors were more likely to be effective if they were responsible for functioning economic areas rather than being strictly tied to existing local boundaries.

Risks and resilience

At a meeting of Parliamentarians and industry specialists held in the House of Commons in October, Dr Bridgette Sullivan-Taylor, WBS, presented her research on assessing risks and developing resilience to large-scale threats such as terrorist attacks, economic crises and unpredicted physical disasters. The meeting was chaired by the Right Hon Hazel Blears MP, a member of the Intelligence and Security Committee, and was attended by representatives of the Cabinet Office, the Defence Select Committee, the Joint Committee on National Security and multinational organisations.

Evaluation of government parenting initiative

Researchers from the Centre for Educational Development, Appraisal and Research (CEDAR) and from Warwick Medical School were commissioned to evaluate a new trial of free parenting classes in England. Led by Professor Geoff Lindsay (CEDAR) and Professor Jane Barlow (WMS), the team is examining whether the provision by the government of free parenting classes in three areas of England will provide sufficient incentive to offer the classes nationally.

Other national appointments

Professor Nicolas Crafts, Department of Economics and Professor Anne Green, Institute for Employment Research were appointed members of the Lead Expert Group for the Foresight Project on the Future of Manufacturing.

Professor Elizabeth Dowler, Department of Sociology, was selected as a member of the new Social Science Expert Panel for the Department of the Environment, Food and Rural Affairs (DEFRA) and the Department of Energy and Climate Change (DECC).

Professor Roger Gadsby MBE, Warwick Medical School, was appointed GP Lead for the National Diabetes Audit.

Professor Geoff Lindsay, Director, Centre for Educational Development, Appraisal and Research (CEDAR) was appointed Specialist Advisor to the House of Commons Education Committee in matters relating to Special Educational Needs.

Professor Martin Underwood, Warwick Medical School, chaired the development of the first guidelines for treating headaches issued to GPs and health professionals by the National Institute for Health and Clinical Excellence (NICE).

Fact File

The University remains Coventry’s third largest employer.

Regional Impact Study commissioned to inform University’s relationship with local region; to report in 2013.

2,500 students enrol as Warwick Volunteers.

15 Lloyds Scholars appointed in volunteering programme.

Santander Award won by Warwick Volunteers’ ‘Project Oarsome’.

April – Report of the Warwick Commission on elected mayors.

July – August: Warwick is official training centre for London Olympics.

October – Warwick Arts Centre wins Coventry Community Cohesion Award.

December – Audience of 800 for Physics Christmas Lectures.

‘Researchers from the Centre for Educational Development, Appraisal and Research (CEDAR) and from Warwick Medical School were commissioned to evaluate a new trial of free parenting classes in England.’
Warwick’s local and regional engagement commended by BIS Review
In February, the Department for Business Innovation and Skills Review of Business-University Collaboration by Sir Tim Wilson particularly commended Warwick for its work with local businesses and its collaboration with the Coventry and Warwickshire Local Enterprise Partnership. Sir Tim highlighted the work of WMG as an ‘example of excellence’ for its regional focus and its work with major companies, especially Jaguar Land Rover. WMG’s work with global companies and SMEs (often bringing the two together as in the Low Carbon Vehicle Technology Project) has undoubtedly played a major role in the revival of the British motor industry.

WMG and The Tata Group
WMG has a long history of collaboration with The Tata Group. Jaguar Land Rover and Tata Motors both have research teams based at WMG. In 2012, each organisation created a sponsored Research Chair at WMG, with the Royal Academy of Engineering. Tata Steel set up a Joint Chair for Research into Low Carbon Materials, to which Professor Sridhar Seetharaman, formerly of Carnegie Mellon University, has now been appointed; Jaguar Land Rover sponsored a new Chair in Simulation Innovation to support research into emerging product technologies of batteries, battery modules and their related systems. The new National Automotive Innovation Campus, described on page 10, both celebrates and extends this unique academic/business relationship.

The Science Park
For nearly thirty years, the Science Park has played an important part in the growth of local and regional businesses, providing office, laboratory space and business support services across Coventry, Warwickshire and Solihull. These services include access to finance, and the Science Park manages the Minerva Business Angels Network, which in the last three years has made 22 investments, totalling more than £2.6 million, in a range of sectors from medicine to broadband at a time when traditional sources of finance remain difficult to access. At the end of 2012, the early recipients of these investments were getting ready for a major growth spurt in 2013 with the launch of new products; for example, Genesis Technical Systems has produced a product to increase broadband speed, while Warwick Audio Technology (a spin-out company from research in the School of Engineering) has designed innovative lightweight thin loudspeakers. Companies in the Science Park have also helped to boost the region’s employment figures; for example, Key Forensic Services has expanded to recruit 50 new graduates in the last six months, and expects to have grown to 250 employees by April 2013.

In 2012, the University acquired sole ownership of the Science Park which was originally set up as a joint venture between the University, Coventry City Council, Warwickshire County Council and the West Midlands Enterprise Board.

£2.6m
INVESTED IN THE LAST THREE YEARS BY THE MINERVA BUSINESS ANGELS NETWORK

250
PROJECTED GROWTH OF EMPLOYEES BY KEY FORENSIC SERVICES BASED AT THE SCIENCE PARK BY APRIL 2013
In the autumn, the University’s Corporate Relations Unit collaborated with the Science Park to run the Big Idea Business Support competition. This was open to technology businesses with new ideas or innovations that they wished to take further. The prize was two days of training and free consultancy with experts from the University, enabling the winners to progress their ideas and introduce a step change in their development plans. The competition focussed on advanced materials and translational medicine, areas in which Warwick has long-standing expertise. Over 40 UK businesses entered, representing several sectors of industry, and the University awarded 18 prizes. A workshop and networking event have been held at Warwick for the prize winners who are now working in partnership with the University to develop their Big Ideas.

The competition was run as part of a programme under the Science City Research Alliance, a strategic partnership between the University of Warwick and the University of Birmingham.

2012 Case Studies

WMG and Barkley Plastics
WMG’s International Institute for Product Service Innovation (IIPSI) is dedicated for the use of Small and Medium-Sized Enterprises (SMEs) in the West Midlands. Funded by the European Regional Development Fund (ERDF), their Innovation Programme encourages SMEs to understand how new technology, processes and ideas can be implemented to develop new products and services. There are three areas of support: experience led innovation, polymer innovation and digital innovation. Birmingham-based Barkley Plastics offer moulding solutions to sectors that include automotive, medical and retail. Keen to find ways to kick start growth again after the recession, they have worked strategically with WMG to access new research and technology and to diversify into new markets. Through the ERDF programme, they were able to use microscopy testing to assess the validity of their patented in-mould welding, to use Additive Layer Manufacturing facilities to create prototypes for new devices, to load test a new Step Stool project, and to investigate a new process of manufacturing interior trim components for Bentley Motors. Their work with WMG has led to increased turnover for Barkley Plastics of over £500,000 and the creation of three new jobs.

The IDH Learning Lab
WMG, Warwick’s Institute of Digital Healthcare (IDH) and Bosch Healthcare formed a unique partnership to set up the IDH ‘Learning Lab’ – a major research facility aimed at creating better healthcare programmes for people living with life threatening and chronic illnesses. This is a major new resource to evaluate the effectiveness of digital programmes in the health service, and to design and trial new digital healthcare technologies. Working with Bosch Healthcare, Warwick Medical School and other partners, the IDH will pioneer two large telehealth studies: the first will examine patients with cancer to assess how telehealth improves their quality of life and behaviour, its cost effectiveness and effect on mortality rates; the second aims to understand how telehealth can monitor and help over 1,500 patients with vascular diseases.

Inaugurating the partnership with Bosch
Scientists from Warwick’s Department of Chemistry have collaborated with spin-out company Molecular Solar to create an organic solar cell that generates a sufficient high voltage to recharge a lithium-ion battery directly, without the need to connect multiple individual cells in series. Modules of these high voltage cells perform well in different light conditions, including partial shade, making them well-matched to consumer electronic devices such as e-book readers, cameras and some mobile phones. The Warwick scientists have worked with organic photovoltaic (OPV) cells to address the problem of low-output voltage when the module is in low light. Their work has taken an important step towards rolling out cheap OPV cells in low-power portable electronics. The next step is for the technology to move out of the laboratory to make cheap OPV chargers available on a commercial scale through Molecular Solar.

Warwick’s Department of Computer Science has formed a partnership with high-performance computing firm Bull Information Systems. This partnership brings together supercomputing expertise in both the Warwick Department and in Bull, and will see the two partners collaborate on a range of high performance computing research and education initiatives. Initially, Bull will sponsor two PhD places within the Department, and will provide support and sponsorship for a one-year Master of Engineering degree course in Computer Science. This will involve Bull running a regular technology-based project for students and a seminar series on emerging technologies in high-performance computing.

In January 2012, the University of Warwick, University Hospitals Coventry and Warwickshire (UHCW) and Bayer HealthCare agreed to co-fund a study entitled ‘Assessment of Metabolic Profiles in Obese men with Hypogonadism and Type 2 Diabetes Mellitus, and the Effects of Treatment with Testosterone Replacement Therapy’. Bayer HealthCare is among the world’s foremost innovators in the field of pharmaceutical and medical products; their Medical Care Division includes blood glucose monitoring devices and medical equipment for diagnosis and treatment. For its part, Warwick Medical School (WMS) has particular expertise in the field of diabetes – one of its major research themes. WMS, UHCW and the Science City Research Alliance funded the Human Metabolism Research Unit, situated in UHCW and opened in 2011, which will be used to assess patients recruited for this study. The study is led by Dr Tom Barber, Associate Professor in Endocrinology at WMS and Honorary Consultant at UHCW, and will be used to inform future guidelines for the management of this condition among the obese male population.
New buildings

In September, students moved into the new Sherbourne Halls of Residence, which provide over 500 bedrooms for undergraduates, as well as accommodation for resident tutors and wardens. This means that Warwick can now accommodate over 6,500 undergraduates and postgraduates on campus. The International Institute for Product Service Innovation (IIPSI), which completes the University’s Academic Square, and the innovative Mechanochemical Cell Biology Building were also opened in 2012: these are described in more detail on pages 35 and 36.
Green Steps is a sustainability education programme that empowers students to become effective ‘change agents’ by bridging the gap between knowledge acquired at university and the skills required to create environmental change. After gaining technical skills through an MSc in Renewable Energy Engineering, I was motivated to apply for the pilot Green Steps @ Warwick programme because I felt ill-equipped to make the impact I desired, especially in my home country – Nigeria – which is plagued with noisy and smoky generators. The objectives of the Green Steps programme were met through its three-phase delivery of training, on-campus projects and internships. 12 of us from different countries, disciplines and academic levels were trained on environmental audits, problem mapping, effective communication and behavioural change. In five groups, we subsequently undertook placements which ranged from auditing the vehicle fleet in a local council to assessing environmental impacts of a consultancy firm in London. I worked with students from Monash University on developing a long-term plan for Green Steps as well as investigating ways of integrating Education for Sustainability into the curriculum across all disciplines in both institutions. I now feel well-equipped to make a positive environmental impact. The Green Steps programme is the best student experience I have had so far.

Muyiwa Oyinola, Engineering postgraduate student
Member of the Green Steps programme
Reorganising campus services
Warwick has an array of campus-based departments and units, all delivering important services to the campus community and beyond, and bringing in vital revenue to the University. At the beginning of the autumn term on the initiative of the Registrar and Chief Operating Officer, Ken Sloan, these were brought together in a new Campus and Commercial Services Group (CCSG). This new network includes the University’s award-winning conference business; Warwick Sport; Warwick Arts Centre; Unitemps (our on-line employment agency which finds temporary work for many of our students); Warwick Print, and the University’s retail operations serving around 30,000 people on campus. CCSG will increase collaborative working and knowledge sharing among its component parts, ensuring the continued vitality of campus and enabling the University to grow and enhance the quality and range of these services.

Awards for Warwick Conferences
Warwick Conferences won three awards at the 2012 Meetings and Incentive Travel Award: gold for Best Academic Venue; gold in the Best Value for Money Group, and silver in the Best UK Management Training Centre category. All three of the University’s conference and training venues – Arden House, Radcliffe House and Scarman House – were awarded the Gold AIM Higher Accreditation from the Meetings Industry Association: nationwide, only 14 venues are at the Gold standard.

Cutting carbon emissions – saving energy
2012 saw good progress on both these fronts. During the nationwide Climate Week in March, the University launched the third part of its 2020 Carbon Management Implementation Plan. Established in 2011, the Plan aims to cut carbon emissions by 34% by 2020. The new part of the plan explains how the University will deal with indirect emissions – for example, those from the treating and disposal of waste, from treating water and sewerage, from students and staff commuting to the University, and from business-related air travel. The University expects to see significant reduction in carbon emissions as a result of a £500,000 government loan to fund three energy saving projects, including improvements to the combined heating and power plant at Gibbet Hill.

Energy savings of around £28,000 were announced as a result of upgrading the lighting to two University car parks, and there are plans to move to more energy efficient LED lighting in University buildings. As usual, Warwick students have been enthusiastic partners in the energy saving process. Their 2011-2012 Student Switch-Off Campaign – a competition, run in partnership with the National Union of Students, between the halls of residence to save energy – resulted in savings of £10,000 worth of electricity; this is equivalent to the consumption of 18 average UK households.
Protecting the campus environment
One of the University’s priorities has always been to protect the ‘greenness’ of the campus – its lakes and woods and numerous green spaces, which are greatly appreciated by students and staff and the local community. Two pieces of news in 2012 indicated the success of this policy. Warwick was one of only three universities chosen by the Woodland Trust as one of its 60 sites across the UK to create an exclusive ‘Diamond Wood’ made up of native British trees, to celebrate the Queen’s Diamond Jubilee. Warwick’s Diamond Wood will cover 60 acres at Cryfield Grange Farm. Secondly, the University was awarded the Heart of England in Bloom Environment Award – a tribute to the hard work of the Warwick Estates Team.

The University has also been keen to protect the environment by cutting down the number of cars which regularly come to campus. Car sharing schemes for both staff and students have been launched, as well as extensive support for cyclists. In October, this policy was given a boost by the opening of the Connect 2 Kenilworth Cycle and Pedestrian route which joins nearby Kenilworth to the Warwick campus. The University’s hopes that this will encourage people to cycle to campus rather than drive seem well-founded, in that in the first month since its opening the route was used more than 10,000 times. Again, students have been active in supporting this policy: the Students’ Union has joined with a local firm to provide a bicycle repair and maintenance service on campus.

Green Steps
In the summer, 12 Warwick students took part in the campus-based Green Steps programme, devised by Warwick’s partner, the University of Monash. This, the first overseas version of the programme, was co-ordinated by the Centre for Student Careers and Skills, the Estates Office and IATL (the Institute for Advanced Teaching and Learning). The students learned the basics of energy, water, carbon and waste auditing and were trained in how to communicate this knowledge so as to have a positive effect on their audience. They then used the campus as a living laboratory to practise their newly acquired skills – contributing, at the same time, to the University’s ambitious sustainability targets.

Projects included an energy awareness walking trail round campus, an environmental audit of University House, and an audit of water use in the halls of residence.

The Energy Trail
This was initiated by the University’s Energy Global Research Priority, with the initial research being undertaken by students involved in the Green Steps Programme. The trail covers 16 poster boards at points of interest across campus along a circular route of 5km. The trail aims to raise awareness about the global energy challenge, demonstrate Warwick’s commitment to sustainability and the measures being taken to reduce energy consumption on campus, and to showcase world-leading energy research at Warwick. Target audiences include the University community, external visitors and local schools. (See www.warwick.ac.uk/energytrail).

Fact File
Opening of Sherbourne Halls of Residence; the International Institute for Product Service Innovation (IIPSI); the Mechanochemical Cell Biology Building

Three new sculptures installed on campus
The Butterworth Seat installed on campus
Formation of the Campus and Commercial Services Group
Student Switch-Off campaign saves £10,000 worth of electricity
Warwick chosen to plant Diamond Wood
Connect 2 Kenilworth Cycle and Pedestrian Route opened
Green Steps programme in collaboration with the University of Monash
Introduction of Energy Trail

‘In the summer of 2012, Warwick students took part in the campus-based Green Steps programme, devised by Warwick’s partner, the University of Monash.’
2012 HIGHLIGHTS

Financial highlights for 2011/12

- Turnover increased 5% to £440.1 million
- Capital investment increased 7.6% to £55.2 million
- Academic fees and support grants up by 12.6% to £166.1 million
- Other operating income up by 6.4% to £102.1 million
- Endowment income and interest receivable up 100% to £2.2 million
- Surplus for the financial year increased by 52.7% to £31 million

*Includes residences, catering, conferences and management training centres

A full copy of the University of Warwick’s accounts for 2011/12 can be downloaded from www2.warwick.ac.uk/services/finance

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Student numbers for 2012

- Home/EU undergraduates at Warwick increased by 0.6% to 10,098
- Home/EU postgraduates at Warwick increased by 2.3% to 2,768
- Overseas undergraduates at Warwick increased by 2.9% to 2,390
- Overseas postgraduates at Warwick increased by 14.1% to 2,927
- Total student numbers at Warwick increased by 1% to 19,086
Mechanochemical Cell Biology Building (MCBB)

Opened in April by Sir Paul Nurse, President of the Royal Society, the Mechanochemical Cell Biology Building is situated at Gibbet Hill. In terms of energy performance, it set a benchmark for future campus buildings to follow. It has solar panels on its roof and the outer walls are designed to maintain a constant temperature. It also boasts a Variable Air Volume system to maximise the energy saving potential of the building’s air conditioning. MCBB is connected to Warwick Medical School’s Clinical Trials Unit building, and houses research laboratories, equipment suites and offices. The University received grants from Advantage West Midlands and the Wolfson Foundation to help with its construction.
Capital investment
The University’s capital expenditure in the financial year 2011-12 amounted to £55.2 million. 2012 saw the completion of major new buildings on campus.

£55.2M
UNIVERSITY OF WARWICK CAPITAL EXPENDITURE TOTAL FOR 2011-12

£20.35M
INVESTMENT: SHERBOURNE UNDERGRADUATE HALLS OF RESIDENCE OPENED IN 2012

£8.4M
INVESTED IN THE INTERNATIONAL INSTITUTE FOR PRODUCT SERVICE INNOVATION (IIPSI)

Sherbourne Halls of Residence
The latest undergraduate residence took its first students in September 2012. It was funded by the University at a cost of £20.35 million.

The International Institute for Product Service Innovation (IIPSI)
An £8.4 million research and development building co-funded by the European Regional Development Fund and the University for WMG. IIPSI complements the work of WMG’s International Digital Laboratory, specialising in digital enabled plastic electronics, digital media and user focused product design: it will provide West Midlands’ SMEs with access to world leading technology to enable them to develop new products and services. IIPSI completes Warwick’s Academic Square.

Buildings opened in 2011:
Bluebell Residences
Clinical Trials Unit
Materials and Analytical Sciences Building

The results of the University of Warwick for the year ending 31 July 2012 display sound financial strength. The University has seen a year of growth in its financial surplus: the £31 million surplus for the year reflects the University’s strong academic reputation and associated strong demand for student places, as well as the impact of continued efficiency improvements and previous restructuring. These positive factors have offset reduced government funding and the impact of economic pressures which Warwick, in common with other UK universities, has experienced in some of its commercial activities. However, cash inflows of £41 million from operations, capital grant receipts of £11.9 million and new endowments of £1.1 million have supported the University in maintaining another year of high capital expenditure (£55.2 million). The University has invested in new buildings, refurbishment, and new capital equipment, supporting our research and teaching activities and enabling us to continue to provide the best possible facilities for our students.
The achievements of its staff and students underpinned the success of the University of Warwick in 2012.

**AWARDS AND DISTINCTIONS**

**Higher Doctorates awarded by the University**
- Professor Franco Cappuccio, Warwick Medical School
- Professor Nick Hewlett, Department of French Studies
- Professor Mark Taylor, Dean, Warwick Business School

**Fellowships**
- Fellows of the British Academy: Professor Nick Chater, Warwick Business School; Professor Peter Mack, Department of English and Comparative Literary Studies
- Fellow of the English Association: Professor David Morley, Department of English and Comparative Literary Studies
- Fellow of the Royal Society of Literature: Professor Maureen Freely, Department of English and Comparative Literary Studies

**Awards and Prizes**
- Carlo Naef Trophy for 2012: Dr Rosemary Collier, Director, Warwick Crop Centre, School of Life Sciences
- International Academy for Production Engineering 2012 General Pierre Nicolau Award: Emeritus Professor David Whitehouse, School of Engineering
- Ostrowski Prize 2011 for ‘outstanding achievement in pure mathematics’: Professor David Preiss, Mathematics Institute
- Royal Society of Chemistry Awards: Professor Rachel O’Reilly and Professor Pat Unwin, Department of Chemistry
- IUPAC-Samsung Young Polymer Scientist Award, 2012: Professor Rachel O’Reilly, Department of Chemistry
- Royal Society Wolfson Research Merit Awards: Professor Robert MacKay, Mathematics Institute; Dr Maxim Sviridenko, Department of Computer Science
- Royal Statistical Society 2012 Guy Medal in Silver: Professor David Firth, Department of Statistics
- Russian National Prize for Applied Economics: Professor Mark Harrison, Department of Economics
- Silver Sony Radio Academy Award for Best Drama: Peter Blegvad, Department of English and Comparative Literary Studies (Warwick Writing Programme)
- Society of Biology President’s Medal: Dr Ruth Bastow, School of Life Sciences
- Society for Educational Studies Book Award: Dr Alex Withnail, Associate Fellow, Centre for Lifelong Learning
- Philip Leverhulme Prize for Astronomy and Astrophysics: Dr Andrew Levan, Department of Physics

**Other Accolades**
- Appointed Academicians of the Academy of Social Sciences: Professor Steve Fuller, and Professor Hilary Pilkington, Department of Sociology; Professor Robin Wensley, Warwick Business School
- Designated President of the Institute of Mathematics and its Applications, 2012-2013: Professor Robert MacKay, Mathematics Institute
- Queen’s New Year’s Honours, 2012: Dr Andrew Sentence, Warwick Business School, was awarded a CBE for services to the economy; University Council member, Vikki Heywood, was appointed a CBE
In 2012, the University made the following awards:

**Honorary Degrees**

Mr David Bradley: Hon DLitt
Ambassador Barry Desker: Hon LLD
Professor David Edgar: Hon DLitt
Professor Jean M J Fréchet: Hon DSc
Professor Oliver Hart: Hon LLD
Mr Steve Heighway: Hon MA
Sir Bob Kerslake: Hon LLB
Sir David King FRS: Hon DSc
Professor Sir Keith Peters: Hon DSc
Dr Alan Reece: Hon DSc
Lady Susan Sainsbury: Hon DLitt
Professor Saskia Sassen: Hon LLB
Dr Neemat Shafik: Hon LLD
Professor Alan Thorpe: Hon DSc
Sir Bob Worcester: Hon LLD

**The Chancellor’s Medal**

Ms Sheila Fitzgerald, FRSA
Mr David Rowe

**Warwick Students**

**Outstanding Student Contribution Awards**

This is a new award from the University, inaugurated in 2012. It recognises outstanding contributions to the University, the local community and the wider world by Warwick students. The three winners demonstrate Warwick students’ ability to combine serious academic study with service to fellow students and the wider community.

Lawrence Green’s award acknowledges his exceptional work with ‘Nightline’, the student-run support and information service that operates from 9pm to 9am throughout the week.

Oliver Newth produced a Lectures App, that improved the distribution of teaching materials and the learning experience for hundreds of his fellow students, and was an outstanding volunteer in the Warwick in Africa programme.

Bianca Nobilo raised £7,000 to increase students’ awareness of heart conditions and the importance of a healthy lifestyle; she hired cardiac testing specialists, giving 200 students the opportunity for free ECG heart screening.

**National Awards**

Dani Caverzaschi, Department of Economics, represented Spain in wheelchair tennis at the London Paralympics, and was named Higher Education Sportsperson of the Year at the Coventry, Solihull and Warwickshire Sports Awards.

Zehra Irshad, Warwick Medical School, won first prize for the best poster presentation at an international symposium on Maillard Reaction.

Dahlia Janan, Warwick Institute of Education, won the UK Literary Association Prize for the best thesis on literacy, ‘Towards a New Model of Readability’.

Simon Leigh, School of Engineering, won Silver at a special House of Commons’ competition to showcase the UK’s thriving science and engineering base.

Mark Mobley, Warwick Medical School won the grand final of the UK-wide Lister Surgical Skills Competition.

Alex Rutherford, Department of History, won a prestigious award from the University of South Carolina (his student exchange destination) – the Martin Luther King Day Social Justice Award.

Torgyn Shaikhina, Department of Computer Science, was named IT and Computer Studies Undergraduate of the Year at the TARGETjobs Undergraduate of the Year Awards.

Kate Wentworth-Crocker Jordan, School of Life Sciences received the Thomas Henry Huxley Award and Marsh Prize from the Zoological Society of London for the best zoological doctoral thesis produced in the UK.

Samuel Brand and Mikolaj Sierzega, both PhD students in the Mathematics Institute, won EPSRC Doctoral Prize Fellowships for 2012-13.

**Awards for student societies**

Warwick Economics Society was named Society of the Year at the annual NUS awards ceremony.

Warwick Finance Society won the Gold Award and £18,000 at the RBS Enterprising Student Society Accreditation Awards and Prizes for the best series of events.

Warwick History Society was awarded best University Society at the RateMyPlacement National Awards in recognition of its work in providing work experience and skills training for its members.

The Warwick Mobile Robotics Team, WMG, won second place in the European RoboCup Rescue Championships, and Best in Class for both mobility and manipulation.

Engineering Student Team, WMG, was named joint winner of the International Electric Vehicle Grand Prix at Indianapolis.

Radio Warwick (RAW) won four out of four of the 2012 Student Radio Awards.
My research in astronomy focuses on exotic objects in the distant Universe. I study perhaps the most extreme events known: the so-called gamma-ray bursts. These explosions can create as much energy in a few seconds as the sun creates over its 10 billion year lifetime. Through detailed study using the most powerful telescopes in the world, including the Hubble Space Telescope and the Very Large Telescope in Chile, I have been able to pin down the objects that create these powerful events, and utilise them as beacons ('cosmic lighthouses'), pinpointing distant galaxies, and opening them up for study in exquisite detail. Recently, my work has uncovered a new type of astronomical object, probably arising from stars being shredded by million solar mass black holes in the cores of distant galaxies. These objects provide a new view into how common these “supermassive” black holes might be, and show how they might grow through on-going “accretion” of stars and gas. For this work, and contributions to the field, I was awarded the Philip Leverhulme Prize.

Dr Andrew Levan, Department of Physics
Winner of the Philip Leverhulme Prize for Astronomy and Astrophysics