

# unilife

The free magazine for The University of Manchester

## Rising to the University Challenge



# Message from the President

**This month the President and Vice-Chancellor, and the Chief Executive of UMI<sup>3</sup>, take a look at the importance of protecting intellectual property through patenting when translating research into real life applications.**

**R**esearch in universities such as ours is directed primarily at discovering, interpreting and disseminating new knowledge.

When appropriate, we actively facilitate the application of this for social well-being, cultural enrichment and wealth creation, and there is an onus on us to do so when the research is funded from public sources.

Sometimes this requires us to protect intellectual property (IP) ourselves. However, often the development and commercialisation of our IP will be undertaken in partnership with organisations with requisite sector know-how, resources and marketing capabilities.

IP describes the rights which protect the ideas, and other forms of creative outputs, of our students and staff.

In the University, most IP is covered by copyright law, which protects how we present our ideas eg: your paper, thesis or book, but not the ideas themselves. All kinds of artists - painters, musicians, filmmakers - all look to copyright for enforcing their rights.

The digital era has transformed copyright protection issues, making control and distribution of content, in IP terms, very challenging. However, to protect ideas, we would also need to take other actions, such as filing patents.

Patents protect inventions, usually relating to a process or a product. As a principle of controlling innovative work, it's the same as using copyright or other IP forms such as trademarks and designs. So patenting is just one dimension of our rich IP landscape, which itself is part of a much broader knowledge exchange activity here.

Many academic staff are keen to see their discoveries translated into useful community benefits and business advantages and the University strives to make this possible. To encourage this, we operate a generous IP reward-sharing incentive arrangement with staff members, allowing them to determine the use of any IP income to a substantial amount.

This recognises the additional effort that is usually required of staff to engage in licensing and spin-out projects and the support provided by their School. The University also has its own specialist managing agent for IP, 'UMIP', a division of our Innovation Group, which can assist with all aspects of IP. You can find out more at: [www.umip.com](http://www.umip.com)

It's fundamental to the University's approach to IP that filing patents isn't an end in itself; that it serves a purpose that can't be achieved otherwise; that it acts as an accelerator of an invention and not a barrier to its progress; and that when engaging in patenting, it is done thoroughly and realistically.

We treat patents tactically. To be credible they need to have detailed supporting data. We employ them as tangible assets, to secure translational grants and investment monies, in order to progress concepts to the stage where they can be commercialised.

Patenting and publishing aren't mutually exclusive. But it's always worth checking in case of breach of IP protection. Timing is important too. If we come up with something potentially patentable and we don't file for a priority patent before publishing, then the invention goes into the public domain and, except for countries where there's a year's grace period, no-one can then protect the IP.



*Trying out the flight simulator at the School of Mechanical, Aerospace and Civil Engineering*

So the discovery may never be turned into anything helpful to society, as it's unlikely anyone will take the risk of investing in the development and marketing of an unprotected invention.

Patents can inform areas of academic work. Companies and private inventors often publish their work only via patents. By reading through others' patents, via databases, interesting research and development information can be gleaned.

We also need to avoid infringing patents, or copyright, and such checks could avoid legal difficulties. UMIP and its network of professional advisors can help with these aspects.

Protecting IP isn't cheap - particularly for patents. So we consider very carefully the potential value of any patent, and evaluate the likelihood of successfully defending that patent from legal challenge.

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Meeting staff and students at the Manchester Calling recruitment support campaign

There is a lazy habit of counting patents as a 'merit measure' of applications or marketability of discoveries. This approach is flawed because numbers don't say anything about quality or relevance. Brunel compared the proliferation of 'trivial' patents to a lottery.

The University is frequently asked: "Have you seen that China is the most active graphene nation with over 2,000 registered patents?" But many of these contain only passing mention of graphene rather than graphene inventions, and others don't appear to have either valuable or strong claims. So the question doesn't connect with our approach or circumstances. The important things to assess are the real outcomes from patents.

Patent protagonists and abolitionists abound and the patent system is tremendously complicated. There are issues around IP piracy, questions of ownership, challenges to sufficiency of specifications and so on.

Famous Lancastrian Richard Arkwright's 'Spinning Jenny' invention was invalidated due to the lack of a detailed specification in his patent and his claim to be the inventor was contested. In the early stages of the 'sewing machines' patent war, a Victorian version of the current 'smart phones' patent war, Singer had to settle his patent case out of court because he couldn't prove his inventorship.

A valid concern has been around patenting medicines, which could deprive poor nations of potentially life-saving solutions. We were one of the first UK universities to introduce a 'humanitarian' IP policy which recognises the need to treat low income countries differently in our patenting strategies. Our policy is also clear that we will not patent and promote any project which conflicts with the University's social conscience and ethical standards, whatever the potential financial value may be.

Increasing numbers of students want to learn more about IP and entrepreneurship. Massachusetts Institute of Technology alumni and staff have founded so many companies that, put together, they would constitute the 11th largest economy in the world. By itself engaging in the intricacies of patenting, born out of practical 'front-line' experience, the University can pass on core IP skills to those of its students who aspire to become successful entrepreneurs.

If we continue to keep our perspective about patents in balance and context, we will be able to carry on using patents effectively in helping advance some key aspects of the University's wider 2020 vision.

**Nancy Rothwell**

**Clive Rowland**



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Front cover: University Challenge team coach Stephen Pearson  
Photo by Mark Waugh



## Manchester Museum opens 'Nature's Library'

**M**anchester Museum's new gallery is a 'library' of the natural world – boasting four million preserved specimens instead of books. So who better to open it than presenter of the popular TV series 'Wonders of Life', our own Professor Brian Cox?

'Nature's Library' explores the diversity of the natural world and how it's represented at the Museum, including stuffed mammals, extinct birds, butterflies and beetles, corals, sponges, plants, meteorites, volcanic lavas and fossils. Some exhibits explore how the collection relates to teaching and research in the University.

It helps people to study parts of the world they perhaps can't visit and also explores some of the 'behind-the-scenes' work of the Museum and why it's important that museums continue to collect things.

The gallery has been funded by the DCMS/Wolfson Museums and Galleries Improvement Fund, Sir Siegmund Warburg's Voluntary Settlement, John Spedan Lewis Foundation, the Pilgrim Trust and the John Paul Getty Charitable Trust.

## SOS – support our schools

The University's first conference for school governors showed staff how the role could help us fulfil our agreement with the Office for Fair Access and support our social responsibility strategy.

The University of Manchester School Governors Initiative (UMSGI), which organised the conference, aims to substantially increase the number of University staff volunteering as school governors in local state primary and secondary schools. Since the initiative launched in September 2011, the number of governors on our payroll has increased by over 50% to 125.

The 48 delegates heard from keynote speaker Chris Caroe, Head of the Department for Education Governance Unit.

To see his presentation visit:  
[www.staffnet.manchester.ac.uk/school-governors-conference](http://www.staffnet.manchester.ac.uk/school-governors-conference)



Professor Brian Cox opens Nature's Library



University Challenge team coach Stephen Pearson

## Champion coach relives joyous journey

**W**hen Manchester retained its University Challenge title with its fourth win in just eight years, it marked the pinnacle of a long, demanding, but ultimately joyous journey for team coach Stephen Pearson.

Stephen, who has been selecting and coaching the team for 15 years, was dubbed the 'Alex Ferguson of the quiz world' by the press. But the modest librarian is not so sure and, thankfully, he doesn't share Fergie's famed 'hairdryer' style of management!

As team captain in the 1996/97 series, he performed better when he was relaxed and just enjoying the chance to take part in what is the UK's longest-running quiz show, which more than 120 universities enter every year.

He recalls: "I wasn't worried whether we won or lost, and I didn't think about the presence of the TV cameras - instead, I was just taking part in the only kind of 'sport' at which I was any good."

### Sport

And it is a sport, in which the Manchester teams regularly train – albeit in typically fun fashion – with matches against previous team members to hone their all important buzzer times and their team spirit (knowing when to buzz and when to let a team mate go ahead is essential).

The team that Stephen captained lost in an exciting, close-fought semi-final, but losing didn't matter, thanks to the excitement.

Since then, he has selected and coached eleven Manchester teams. This "fantastic" experience has seen him both mentoring students and being inspired in his 'day job' of librarian: "I went into librarianship because I'm fascinated by how people interact with information so I find it really interesting to see what the students do know and don't know."

### Friends

Best of all, though, he has made many good friends – no less than 18 of his wedding guests were University Challenge contestants, 13 of them from Manchester and five 'rivals'!

So he tells his teams to relax and enjoy the ride, which seems to work.

This year's champs – captain Richard Gilbert, studying Linguistics, Adam Barr, studying Physics with Astrophysics, David Brice, studying Economics, and Debbie Brown, studying Pain Epidemiology – beat University College, London 190 to 140 in the televised final.

Richard mirrors Stephen's sporting attitude: "We felt under tremendous pressure to get to the final because Manchester has such a proud recent history in the competition, but once we'd got there in many ways that pressure was lifted. UCL had already beaten us once in the series, so we went into the final very relaxed and feeling as if we had nothing to lose."

### Honour

The team and Stephen were honoured by the Lord Mayor at Manchester Town Hall and will be celebrated again at this month's Cockcroft Rutherford Lecture.

So is Stephen after a fifth – record breaking – title?

"It would be nice. However, even though I tell the teams to relax and enjoy it, I suspect that each successive team does feel a certain amount of pressure in that each of the last eight Manchester teams on the show has reached at least the semi-finals. So I don't want to put any more pressure on them by talking about another win!"



(top l-r) Debbie Brown, Adam Barr, David Brice, Richard Gilbert (bottom l-r) Former Lady Mayoress Linda Georghegan, Stephen Pearson, Former Lord Mayor Elaine Boyes

### Profile

- Stephen Pearson
- Age 47
- Research Information Analyst (specialising in bibliometrics and citation analysis) in The University of Manchester Library
- BA in Classics and Ancient History (from Oxford)
- Postgraduate Diploma in Information and Library Studies (from Strathclyde)
- MA in Biblical Studies and MPhil in Old English Literature (both from Manchester)
- Married to Sarah with a two-year-old daughter Gabrielle



Cardinal Newman

## Cardinal Newman archive to become digital library

A three-year project to digitise the tens of thousands of documents produced by one of the most important and prolific Christian thinkers of the past 200 years has been launched.

John Henry Cardinal Newman's enormous handwritten archive, kept at the Birmingham Oratory, will be captured by a team of experts using cutting edge equipment at the John Rylands Library.

The documents, thought to number around 200,000, will then be re-housed at the Birmingham Oratory in custom-made boxes, made by the collection care team at the John Rylands.

## University joins forces with Premier League giants

**T**he University has teamed up with Manchester City Football Club to launch a new Learning Through Football programme.

Student volunteers from the Manchester Leadership Programme (MLP) joined MCFC players and coaches from City in the Community for a Skills and Enterprise Day at the Etihad Stadium, as the two organisations embarked on a new partnership.

The students helped to teach literacy and numeracy to pupils from the School of the Resurrection in Beswick, East Manchester, using the home of last year's Premier League champions as a giant classroom!

Lindsay Gilbert, Head of Volunteering and Community Engagement, said: "Our MLP students learn about key contemporary issues, contribute to community projects and meet high-profile leaders from different sectors. MLP is an exciting programme that helps students to develop leadership skills and a greater awareness of social, economic and environmental sustainability."

Debbie Glynn, Skills and Enterprise Manager at Manchester City, said: "We see first-hand every day the unique power that football has to inspire young people, and want to use that special connection to get children excited about learning."



Samir Nasri (left) and Kolo Toure meet pupils

## Academic dedicates paper to hospital staff



Dr David Penney, wife Zahida holding Amelia, daughter Siri holding bee in copal and the team who helped them

**D**r David Penney's latest paper has turned into a real family affair.

The Honorary Lecturer in the Faculty of Life Sciences has named his most recent find, a new species of stingless bee preserved in Colombian copal, after his daughter Amelia who was born in January. He also took the opportunity in the Acknowledgements to dedicate the paper to "all the hard working staff of the Oldham Royal Hospital Maternity Services Department".

Dr Penney explains why: "My wife had a really difficult time during the birth of Amelia, but all the staff on the maternity ward were brilliant. I couldn't

thank them enough for how they supported us so dedicating the paper to them seemed appropriate."

Joanne Moore, the Divisional Director for the Women and Children's Division at The Pennine Acute Hospitals NHS Trust said the maternity team were delighted by the dedication: "All the staff on the maternity ward are absolutely thrilled to be acknowledged in Dr Penney's academic paper. It is an unexpected surprise and honour. We would like to thank Dr Penney for acknowledging the work of our staff. It really does mean a great deal to them."



(l-r) Professors Robert Young, Terry Wyatt and Paul O'Brien

## Fantastic five

**T**he contributions of five of our professors have been recognised with their election to prestigious Fellowships – of the Royal Society and the Academy of Medical Sciences.

Professor Paul O'Brien, from the Schools of Materials and Chemistry, Professor Robert Young, from the School of Materials, and Professor Terry Wyatt, from the School of Physics and Astronomy, have all been elected Fellows of the Royal Society.

Professor Garth Cooper, Director for the Centre for Advanced Discovery and Experimental Therapeutics, and Professor Nancy Papalopulu from the Faculty of Life Sciences have been elected to the prestigious Fellowship of the Academy of Medical Sciences.

Professor O'Brien, whose research centres on developing new chemical processes for thin films and nanoparticles, founded Nanoco, an AIM-listed company that manufactures nanoparticles. He has published more than 500 scientific papers, authored with A.C. Jones 'The Chemistry of Compound Semiconductors' and edited many other books.

Professor Young is one of the world's foremost materials scientists whose innovative research has transformed our understanding of the relationships between structure and mechanical properties in polymers and composites.

Professor Wyatt is an experimental particle physicist who is distinguished for a number of original and important contributions to the experimental verification of the Standard Model.

Professor Cooper's research centres on discovering the molecular mechanisms that cause chronic diseases such as diabetes, and translating these discoveries into clinical practice by inventing new and more effective medicines. His work has led to the successful development and registration of three new medicines for diabetes.

Professor Papalopulu researches the development of the nervous system at the molecular level, focusing on how cells decide whether to divide or differentiate. Her most recent discovery was how cyclical fluctuations in levels of proteins regulate the fate that cells adopt.

## Sir Partha's 'green' report for Indian PM published

The Prime Minister of India has inaugurated a new report on Green National Accounts for India, produced by an Experts Group chaired by Professor Sir Partha Dasgupta, Professorial Research Fellow of the University's Sustainable Consumption Institute.

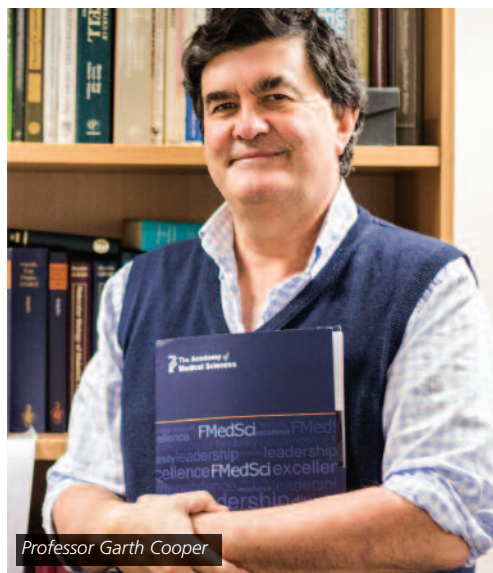
Professor Dasgupta, who has been leading the initiative since 2011 at the Prime Minister's request, is considered one of the world's experts in environmental economics. He developed the concept of the inclusive wealth of nations, and believes that measuring the wealth of countries by GDP is an error.

He advocates the creation of new indicators that include three types of assets: 'industrialised' or physical capital (machines, buildings, infrastructure); human capital (education and skills of the population) and natural capital (land, forests, minerals and fossil fuels).

His report's release coincides with the launch of India's latest Five Year Plan, which has sustainable growth as its core objective.



Professor Nancy Papalopulu



Professor Garth Cooper



Nikhil Chopra

## Stage is set...for 65-hour performance!

### Codebreaker kids

Schools in the Wirral, Devon and Buckinghamshire have provided the winning teams of codebreakers in this year's Alan Turing Cryptography Competition.

This year's winning teams were: (1st) Team 'G15' from Calday Grange Grammar School, Wirral; (2nd) Team 'Room40' from Torquay Boys' Grammar School; (3rd) Team 'SmileyFaces:' from Sir William Borlase's Grammar School, Marlow.

Nearly 2,000 young cryptographers from across the UK took part to solve some fiendishly difficult codes. The competition also aroused interest worldwide, with followers in Australia, South Africa, North America, and several European countries.

Launched in 2012 as part of the Alan Turing Centenary, the competition is now an annual event in the School of Mathematics.

[www.maths.manchester.ac.uk/cryptography\\_competition/](http://www.maths.manchester.ac.uk/cryptography_competition/)

**T**he Whitworth Art Gallery is to remain open day and night for 65 hours as performance artist Nikhil Chopra presents *Coal on Cotton*, an exploration of Manchester's industrial and historical bonds with India, as part of Manchester International Festival.

The artist has chosen the setting of the Whitworth's half-completed Landscape Gallery for his work, allowing visitors a rare access to the site during construction.

And he will use fabrics woven in one of Manchester's few remaining cotton mills to create a new environment within the space, as well as produce costumes and large scale drawings made with coal, the fuel that fired the industrial might of Britain.

Over the three days and two nights, from sunrise on 5 July to sunset on 7 July – and live in front of an audience welcomed at all times – Chopra will transform himself through time, gender and culture.

## New professors for School of Law

**T**he School of Law has appointed two professors of international law.

Jean d'Aspremont, who has just started at Manchester, will be joined by Iain Scobbie in September.

Professor d'Aspremont was Editor-in-Chief of the *Leiden Journal of International Law* and acted as counsel in proceedings before the International Court of Justice.

Professor Scobbie is on the International Advisory Council of Diakonia's International Humanitarian Law Programme and a member of the Scientific Advisory Board of the *European Journal of International Law*.



Professor d'Aspremont (pictured) said: "Besides creating postgraduate taught programmes, we want to create a buzz in the area of international law.

"Our aim to make Manchester one of the world's leading centres in this important area of study and research."

# University honours the late Kathleen Tattersall



(l-r) Professor Rod Coombs, Anil Ruia, Dr Geraldine Boocock and Professor Nancy Rothwell

**K**athleen Tattersall, who passed away in January, has been honoured with the University's highest medal, the Medal of Honour. Kathleen's partner, Dr Geraldine Boocock, received the award on her behalf.

Kathleen, an alumna, had an exemplary and sustained record of service to the University spanning over 14 years. The University decided last year to award the Medal of Honour to Kathleen, but sadly her death came before the originally planned date for the ceremony.

She joined the Council of the Victoria University of Manchester in 1997 and chaired its Audit Committee until the merger in 2004. After her appointment to the Board of Governors, she continued to chair the Audit Committee until 2011.

Chairman of the Board, Anil Ruia, presented Dr Boocock with Kathleen's Medal at the ceremony attended by past and present Board members, senior officers of the University and Kathleen's family and friends.

Deputy President and Deputy Vice-Chancellor, Professor Rod Coombs, who delivered the oration, highlighted Kathleen's immense contribution to effective governance before, during and after the merger.

Her distinguished career in education and assessment was marked by her OBE which was awarded in 2003.

## Green lightnin'

**T**he University hit the road for the future last month, when staff were able to test drive a state-of-the-art electric car for a week.

Charged from a normal electric socket, the Nissan Leaf costs around 2p a mile to run, has no petrol costs and no tailpipe emissions. So who better to take it for a spin than the Environmental Sustainability team?

Head of Environmental Sustainability Dr Emma Gardner used the car to drive colleagues to their Biodiversity meeting – 20 miles away at Jodrell Bank.

The team try to hold one in four of their meetings at Jodrell Bank as one of the Group members, Becky Burns, is based there and they get to see the biodiversity that the iconic venue has to offer first-hand.

Environmental Sustainability Manager Lucy Millard, Head of Collections and Curator of Zoology Henry McGhie and Curator of Botany Rachel Webster agreed with Emma that it was a nice drive.

"The car was a very smooth, comfortable 'quiet' ride," Emma said.

"We had plenty of charge to make it there and charged the car for an hour once we arrived, which



(l-r) Emma Gardner, Henry McGhie, Rachel Webster and Lucy Millard

was easy as we fed the plug through a window and charged it in a normal plug socket!

"It is the first time I had driven an electric car, I was impressed, travelling that way made a lovely afternoon even better."

Senior managers also had the chance to book an hour's slot to drive the car, which was based in the Quad, with Registrar and Secretary Will Spinks and Director of Estates and Facilities Diana Hampson both signing up.

University Sustainable Travel Planner Andrew Hough, who organised the test drive, said: "Nissan offered us the trial to showcase the capabilities and quality of electric vehicles and to dispel negative myths – I think they achieved that!

"The University is looking at electric vehicles and infrastructure to build on the Environmental Services electric vehicle already seen around on campus."

# Top class!

**T**he University has paid tribute to five innovative teachers – one of whom uses song in class – at the Teaching Excellence Awards.

- Dr Mark Brown, Senior Lecturer in the School of Social Sciences, for innovative delivery of social statistics, which can be a daunting area for students. Mark uses empathy, understanding and a down-to earth approach with meaningful real-world datasets.
- Annie Morton, Senior Language Tutor in the School of Arts, Languages and Cultures, for innovative, inspirational and imaginative approach to the teaching of the French language, including peer-assisted grammar sessions, online tests and the use of song!
- Dr Sarah Heath, Reader in the School of Chemistry, for outstanding contributions to outreach activity in her School. Sarah's passionate belief in the need to engage children's interest in the subject has been reported upon nationally.
- Dr David Kirby, Senior Lecturer in the Faculty of Life Sciences, for a unique, engaging and truly innovative teaching style and content based on thorough analysis and market research about



*l-r David Kirby, Sarah Heath, Annie Morton, Sarah Collins, Mark Brown.*

student interest. His students' experience is further enhanced by influential and highly regarded external speakers.

- Dr Sarah Collins, Lecturer in the Manchester Medical School, for outstanding and innovative work, in a relatively short space of time, as the School's academic lead for Early Clinical Experience and for Clinical Communication, in particular relating to the use of the School's Consultation Skills Learning Centre.

Dr Andrew Whitworth, a Senior Lecturer in the School of Education, also received a commendation.

Launched in 2005-06, the Teaching Excellence Awards have criteria based on the Higher Education Academy for the National Teaching Fellowship Scheme and give a three-year £5,000 grant for teaching or career development.

Professor Kersti Börjars, Associate Vice-President for Teaching, Learning and Students and Selection Panel Chair, said: "The high standard of this year's 13 nominations is testament to the quality of the teaching right across the University and to the dedication of our colleagues to providing an excellent student experience."

# Meet...

## Dr Mike Sanders, Senior Lecturer, English, American Studies and Creative Writing

### What is the best part of your job?

Working with enthusiastic, committed and intellectually stimulating people – colleagues and students alike.

### Which teacher inspired you the most at school?

I was fortunate to have many inspirational teachers but Mrs Johnson, Mrs Harrington, Miss Cox and Miss Wright collectively taught me so much about the beauty, power and importance of language.

### What is your proudest moment?

Hopefully, it lies in the future.

### What's your favourite karaoke song?

I can only sing in the key of Chubb and am, therefore, barred from all karaoke events!

### If you could give any advice to your 16-year-old self, what would you say?

Don't let anyone borrow your Clash singles.

### What's the one gadget you can't live without?

A kettle.

### What's your favourite film?

Double Indemnity, an American film noir.

### What is on your iPod?

Everything from Thomas Tallis to Public Image Limited (with a few stopping points in between).

### Your bookcase?

Too many books.

### Your TV?

Have seen no reason to have a TV since the departure of cricket from terrestrial television (Mr Murdoch requires no financial assistance from me).

### Who would you invite to your dream dinner party?

Karl and Groucho, Rosa, Patti and Joni – surnames surely unnecessary here.

### How do you like to spend your time when you're not working?

In my garden.

### What law would you bring in?

A law requiring people to take a proper lunch break away from their desks.

### What's your favourite holiday destination?

Brugge.

### What three things would you need if you were stranded on a desert island?

Middlemarch, a solar-powered radio for Test Match Special commentaries and a straw hat.

### What's your biggest vice?

Grudge-bearing.



### How would you like to be remembered?

Fondly.

### Tell us the secret to life – in six words.

Without contraries there is no progression.

### If you could have any job in the world, what would it be?

This job, but twenty years ago!



Mentor Sudeh Cheraghi-Sohi with one of the mentees Sharon Uwadiale

## Job well done!

University staff and youngsters from Gorton marked a job well done with a celebration of our School Mentoring Programme 2013.

As youth unemployment continues to grow, the programme – involving the Directorate of Human Resources and the Directorate of Estates and Facilities – gives our staff the opportunity to support local young people as they begin to think about their futures.

It is aimed at students who are unlikely to continue into further and higher education and sees our volunteers using their work experience and wider life skills to support, mentor and encourage the young people, who also get work experience.

This year's programme involved students from Cedar Mount Academy, a secondary school in Gorton.

The mentors were Colin Gorman, Hayley Teixeira-Roxburgh, Louisa Jane McAvoy, Sudeh Cheraghi-Sohi, Carly Moseley, Rachel Sinnott, Paul Yates, Christie Finegan, Liz Foster, Sarah Evans, Jon Mossman, Steven May, Nicola Scott and Claire Lynas. The mentees were Natalie Gavin, Shaana Robertson, Khulood Alanhari, Mariam Rehman, Vinci Aisyah and Sharon Uwadiale.

The University is calling for volunteers from a range of job roles and backgrounds to contribute to this initiative.

A mentor gives around two hours a week to helping a Year 10 student. There is plenty of support for mentors and the only condition is they have been employed by the University for a minimum of two years.

For further information contact:  
susan.hogan@manchester.ac.uk or  
paul.marks-jones@manchester.ac.uk

## HQ of world's largest radio telescope opens

The international headquarters of the world's largest radio telescope – the Square Kilometre Array – was officially opened by Universities and Science Minister David Willetts.

Based at the Jodrell Bank Observatory, the new HQ is the hub for an international team of engineers and astronomers working on the development of a revolutionary new telescope.

The Square Kilometre Array (SKA) is a radio telescope which will be built in the deserts of Australia and southern Africa. It will comprise thousands of dishes and other receptors spread over thousands of kilometres to create a single giant telescope. The total collecting area of the dishes will be about one square kilometre, making SKA 50 times more sensitive than any existing radio telescope.

Construction of the €1.5 billion SKA is due to begin in 2016 and by the time it is fully operational in 2024 it will be able to collect data equivalent to 100 times today's global internet traffic.

## A grand milestone

The Manchester Interdisciplinary Collaboration for Research on Ageing (MICRA) has celebrated its 1,000th member with the announcement of two new Co-Directors.

Professors Cay Kielty and Dean Jackson representing the Faculty of Life Sciences have joined the leadership team of Professors James Nazroo and Chris Phillipson (Faculty of Humanities) and Professors Alistair Burns and Neil Pendleton (Faculty of Medical and Human Sciences) to support the continued development and growth of MICRA across the University and beyond.

MICRA has built up a diverse membership over the past three years as a network promoting interdisciplinary research on all aspects of ageing. Membership is open to all with an interest in research on ageing and includes academics, students, voluntary sector providers, NHS, private sector, government and older people.

For more information visit: [www.manchester.ac.uk/micra](http://www.manchester.ac.uk/micra)

## Bravo Beyer



The University celebrated the 200th anniversary of the birth of our most generous ever personal benefactor.

Charles Frederick Beyer (1813 – 1876) donated the current equivalent of

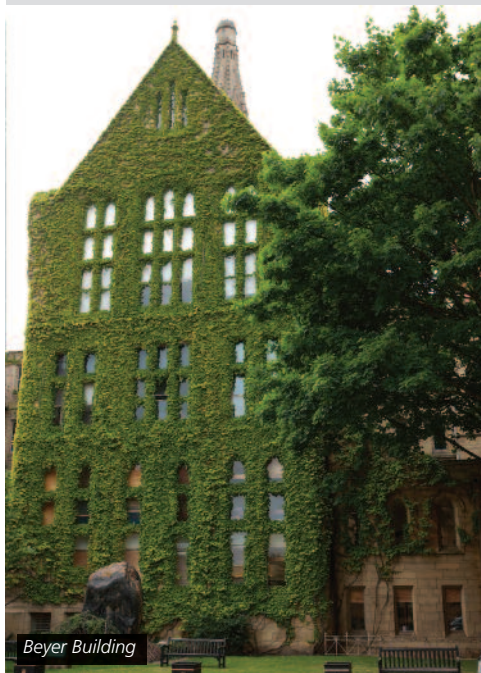
almost £10 million to the University's predecessor institutions, including funds for an endowed professorship in Applied Mathematics which still exists, and contributions towards the construction of the main Oxford Road site which includes the building bearing his name.

Born in Germany to humble beginnings, Beyer won a scholarship to attend university before coming to Manchester in 1834 to work as a locomotive engineer. Twenty years later he founded the pioneering firm Beyer, Peacock and Company which produced almost 8,000 locomotives until its closure in 1966.

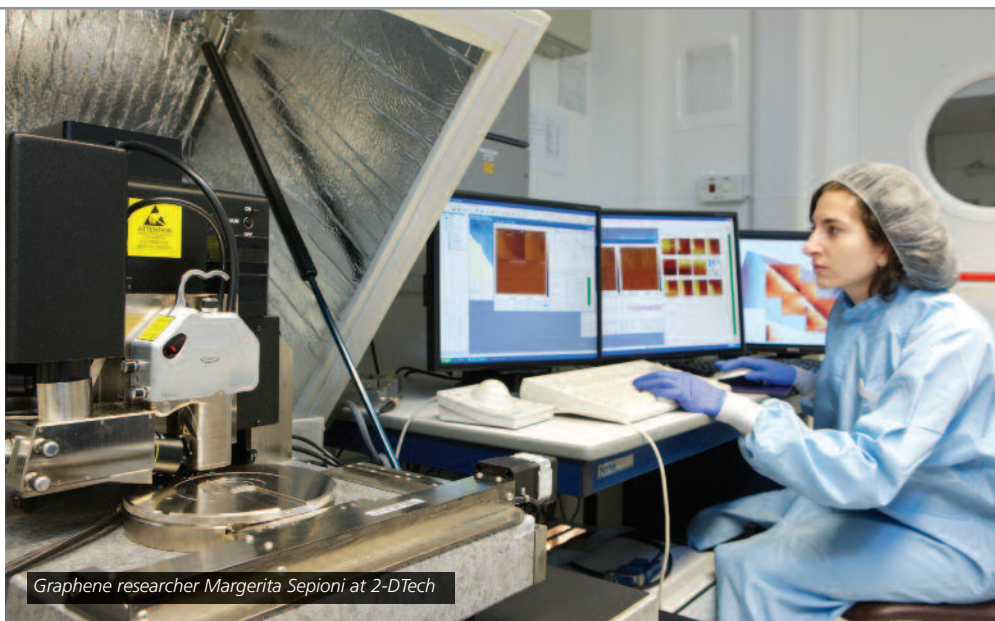
Beyer was heavily involved in the economic and educational development of the city, including the Mechanics Institute, later UMIST, and Owens College, later the Victoria University of Manchester.

His philanthropic support of Owens College, in particular, was instrumental in the college making its move from its original site at Quay Street to the iconic Oxford Road campus, where the Beyer Building, named in his honour, still stands today.

Upon his death in 1873, he bequeathed the funds to endow the Beyer Chair in Applied Mathematics, which has been held by ten academics at Manchester. The current holder, Professor David Abrahams, has been in post since 1998.



Beyer Building



Graphene researcher Margerita Sepioni at 2-DTech

## Graphene – Made in Manchester

A spin-out company producing high-quality graphene and other 2-D materials will bring applications using the wonder material closer to reality.

2-DTech, based at the University's Innovation Centre, brings together the world-class expertise of Nobel laureates Professor Andre Geim and Professor Kostya Novoselov with a state-of-the-art production facility.

Headed up by graphene researcher Dr Branson Belle, the company sells graphene across the world as well as meeting the growing demand from academics at the University.

Although the 'Scotch Tape' method of making graphene – peeling layers from a stick of graphite using sticky tape – is still widely used, 2-DTech offers more advanced scalable production methods like Chemical Vapour Deposition (CVD).

One of the key features about 2-DTech is the quality of materials. Although there are a large number of graphene-production companies worldwide, some of these provide an inferior quality of material.

Dr Belle said: "At 2-DTech, we provide graphene solutions to enable the graphene revolution to happen. Given that Manchester is the home of the industrial revolution, it is quite fitting that the graphene revolution began here."

## Eureka! is a winner with students

From hundreds of entries crammed full of innovative ideas to enhance the Library experience, and a painstaking short-listing process, Eureka! The Final! took place last month, hosted by TV presenter Ortis Deley.

The eight finalists all impressed the panel of judges with great ideas and entertaining pitches.

The judges chose Jade Brodie's idea of individual study desk log-ins. Jade, who won £1,000, is a final year student in International Management with American Business Studies.

Runners up were Jacqueline Austin, who suggested a 'refresh zone', and Ariana Demian, with her idea for a system to indicate where in the Library desks are available.

Jan Wilkinson, University Librarian, said: "It is so inspiring to see what a fantastic pool of talented students we have here at Manchester. This growing partnership with our students helps us to ensure that our services meet their needs."

For further information and a video of the event visit:

[www.manchester.ac.uk/library/eureka/](http://www.manchester.ac.uk/library/eureka/)



Jade Brodie



Pop-up pitches showcase students' work

## Pop-up pitch for our talented students

The hot trend in retail, "pop-up" stores, was the perfect way to show off the many talents of our students to staff and alumni, key industry figures, and friends and family at the School of Materials Design and Fashion Business Showcase 2013.

The fashion and textiles final year projects demonstrated a diverse and creative range of marketing concepts and retail strategies, from lifestyle brands to the restoration of old clothing to sourcing and branding an accessories range.

Other projects showed final knitted, woven and printed fabric collections, a fashion marketing communications projects and strategic brand development project featuring iPhone Apps, range plans and innovative garment design.

Alumni talked with enthusiasm about where their Manchester degree has taken them, before a champagne reception opened the showcase.

Prizes awarded to students included a £100 prize for the best marketing communications project funded by the show's main sponsor JD Williams.

Organisers Jo Cartwright and Victoria Wheeler said, "The visual impact of the showcase was strong, and the depth of subject knowledge was evident to all who came to the preview."

Head of School Paul O'Brien said: "I think the presentations have been of the highest ever standard and we have built very firm relationships with many of our major sponsors."



## Student entrepreneurs set for success

The winners of the Venture Further 2013 business start-up competition were announced after 12 teams of student finalists from across the campus battled it out for prizes across three categories.

Naomi Wilde, a BSc Fashion and Textiles Retailing student, took first prize in the business category for Fair-T – a business with an ambition to 'make fair-trade fashionable' by creating statement fashion pieces with ethical credentials.

In the social category, Master of Enterprise student Christina Taylor won with her Aspire Studios dance school venture aimed at disadvantaged children, young people and adults.

Anna King and Natalie Cureton, both PhD students from the Faculty of Medical and Human Sciences, won in the technology category. Their business LipoPep is based on a novel nanocarrier that targets existing drugs directly and selectively to the placenta to treat placental abnormalities.

Winners of first prize in each category were awarded £10,000 and second prize winners received £2,500 to develop their businesses.

- Pictured, Centre for Enterprise Learning Director Lynn Sheppard (second left) with winners (l-r) Anna King, Naomi Wilde and Christina Taylor.



A dazzling design

## Five million asthmatics could benefit from antifungal therapy

An estimated 4,837,000 asthmatics with allergic bronchopulmonary aspergillosis (ABPA) could benefit substantially from antifungal treatment, say researchers from Manchester and the University of Toronto.

Their work has also re-estimated the total number of asthmatics worldwide – to reveal a staggering 193 million sufferers.

It is the first time that a global estimate of ABPA numbers has been made.

Clinical studies have shown that oral antifungal drugs significantly improve symptoms and asthma control in asthmatics with ABPA.



## World-leading new arrival

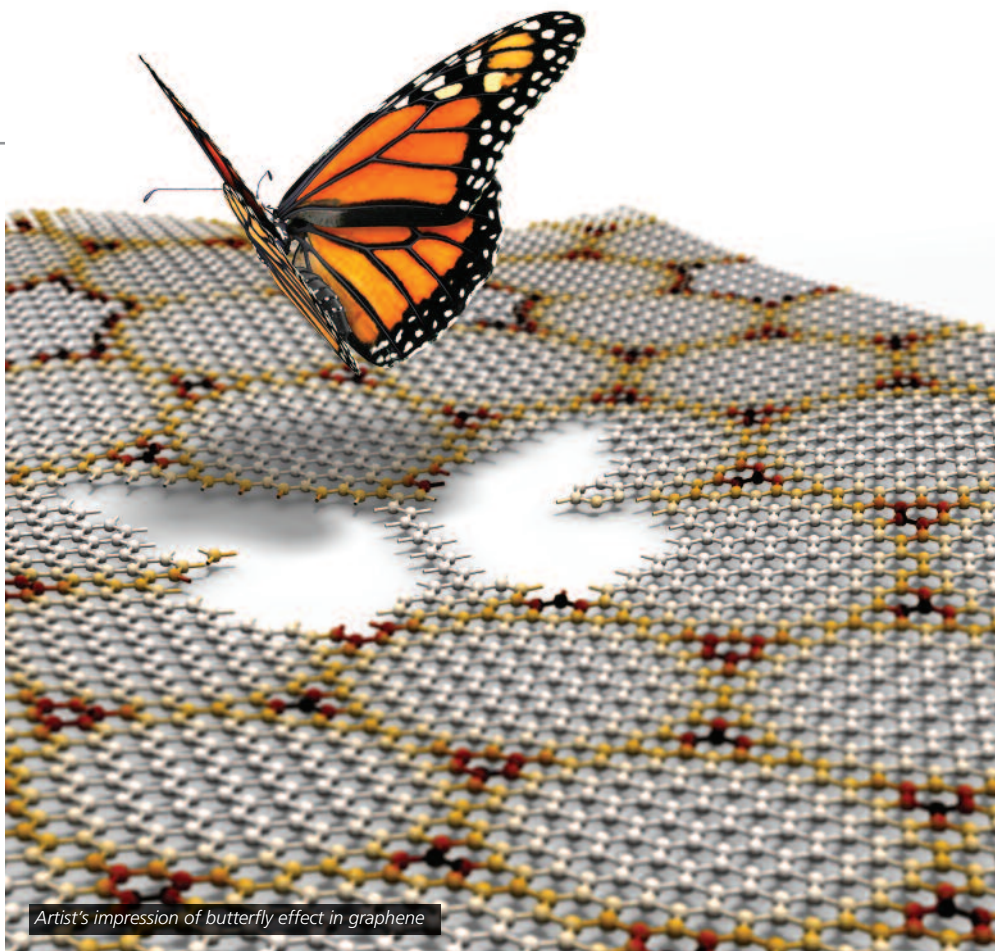
A world-leading academic in nanomedicine a growing field with the potential to benefit patients suffering from neurodegenerative disease and cancer, is to join the University.

Professor Kostas Kostarellos (pictured above) will also bring to Manchester his Nanomedicine Laboratory which generates tiny materials to assist clinicians and is ranked among the top in the world.

His appointment, along with his 15-strong team will help bring graphene closer to medicine with collaborations across the University and with its partner hospitals.

It follows a three-year collaboration with the University's Nobel Laureates Professor Andre Geim and Professor Kostya Novoselov.

Professor Kostarellos's expertise includes developing minuscule needles to inject drugs into brain and other cells which could help the treatment of neurodegenerative diseases and cancer.



Artist's impression of butterfly effect in graphene

## Catching graphene butterflies

**W**onder material graphene, when combined with other graphene-like materials, paves the way for vast new areas of scientific discovery and previously unheard-of applications.

Researchers have shown that when graphene is placed on top of insulating boron nitride, or 'white graphene', the electronic properties change dramatically revealing a pattern resembling a butterfly.

One of graphene's remarkable properties is its high conductivity through electricity-carrying electrons and the scientists have

found a way to create multiple clones of these carriers to produce the butterfly pattern, known in theory for many decades but never before observed in experiments.

Professor Andre Geim said: "Of course, it is nice to catch the beautiful 'butterfly'. More importantly, this work shows that we are now able to build up a principally new kind of materials by stacking individual atomic planes in a desired sequence."

- In other studies, combining graphene with other one-atom thick materials could create the next generation of solar cells

and optoelectronic devices. Researchers have shown how building a three-dimensional stack could lead to electric energy that runs entire buildings generated by sunlight absorbed by its exposed walls.

- And a new transistor capable of revolutionising technologies for medical imaging and security screening has been developed by graphene researchers. The researchers report the first graphene-based transistor that can spontaneously switch between two electronic states.

## Pollution a surprise coolant

**U**niversity scientists have shown that natural emissions and man-made pollutants can both have an unexpected cooling effect on the world's climate by making clouds brighter.

Clouds are made of water droplets, condensed onto tiny particles suspended in the air. When the air is humid enough, the particles swell into cloud droplets. It has been known for decades that the number of these particles and their size control how bright the clouds appear from the top, controlling the efficiency with which clouds scatter sunlight back into space. A major challenge for climate science is to understand and quantify these effects which have a major impact in polluted regions.

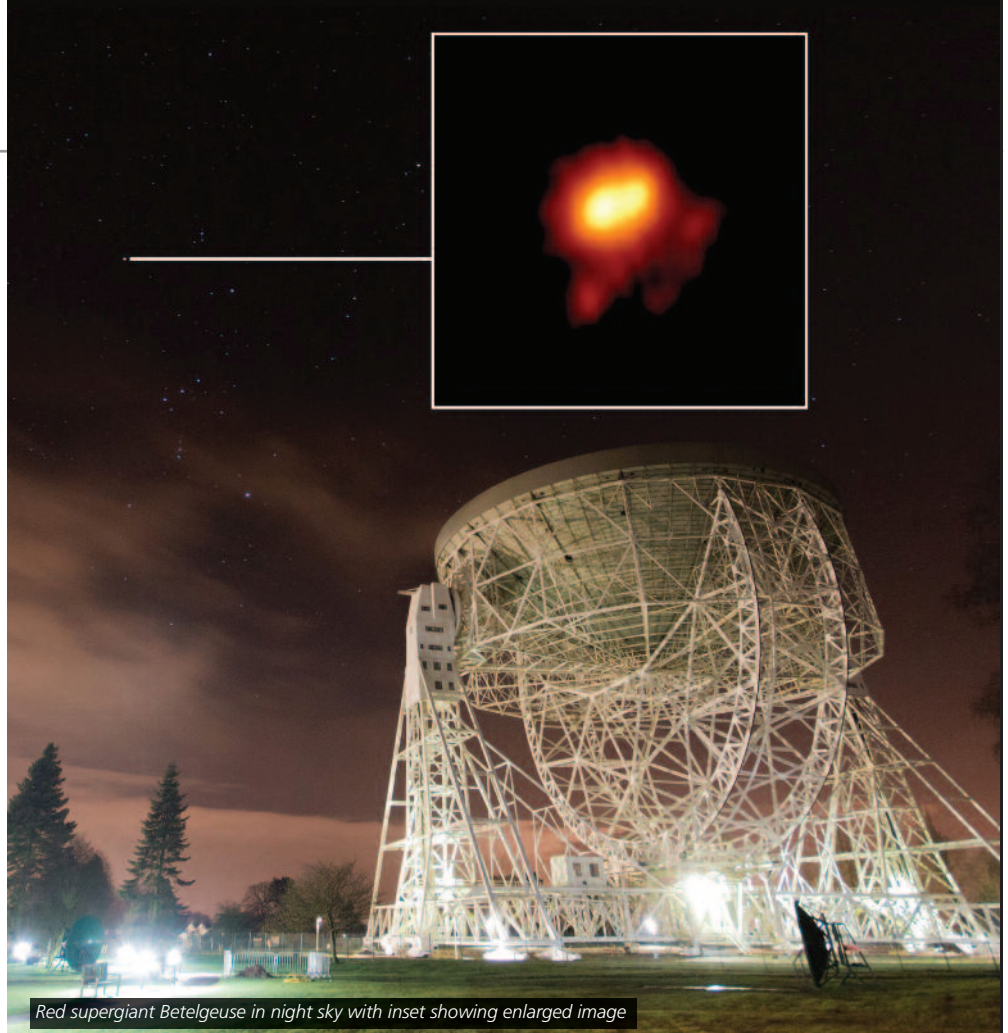
"We discovered that organic compounds, such as those formed from forest emissions or from vehicle exhausts, affect the number of droplets in a cloud," said study author Professor Gordon McFiggans, from the School of Earth, Atmospheric and Environmental Sciences. "More cloud droplets lead to brighter cloud when viewed from above, reflecting more incoming sunlight, resulting in a cooling effect."

# Mysterious hot spots observed in a cool red supergiant

**A**stronomers have released a new image of the outer atmosphere of Betelgeuse – one of the nearest red supergiants to Earth – revealing the detailed structure of the matter being thrown off the star.

The new image, taken by the e-MERLIN radio telescope array operated from the Jodrell Bank Observatory in Cheshire, also shows regions of surprisingly hot gas in the star's outer atmosphere and a cooler arc of gas weighing almost as much as the Earth.

Dr Anita Richards, who led the study in the School of Physics and Astronomy said it is not yet clear why the hot spots are so hot but that one possibility is shock waves, caused either by the star pulsating or by convection in its outer layers, are compressing and heating the gas.



Red supergiant Betelgeuse in night sky with inset showing enlarged image



Mark Macklin (left) and Jamie Woodward at work

# Solved: riddle of ancient Nile kingdom's longevity

**R**esearchers have solved the riddle of how one of Africa's greatest civilisations survived a catastrophic drought which wiped out other famous dynasties.

Geomorphologists and dating specialists from our University and the Universities of Aberystwyth and Adelaide, say that it was the River Nile which made life viable for the renowned Kerma kingdom, in what is now northern Sudan.

Professor Jamie Woodward said: "In Nubia 4,000 years ago, the Kerma people farmed what we might call the Goldilocks Nile: its floods were just large enough to support floodwater farming, but not so big as to cause damage to the riverside settlements."

# Researchers look at therapeutic benefits of ketamine

University researchers have begun the largest trial into the use of Electroconvulsive Therapy (ECT) in the UK in more than 30 years.

It will look into how the use of the Class C drug ketamine might reduce the side effects of ECT for those being treated for severe depression.

Both ECT and ketamine are known to have benefits as antidepressants and as rapid and effective treatments for Treatment Resistant Depression (TRD). However ECT can be associated with confusion and impaired thinking ability and memory.

It is hoped that ketamine will reduce the longer-term loss of past memories, including autobiographical memory – which may include memories of childhood holidays – that some people experience with ECT.

Professor Ian Anderson, from the Faculty of Medical and Human Sciences, said: "It's a great opportunity to really study ECT and see how we can improve it."

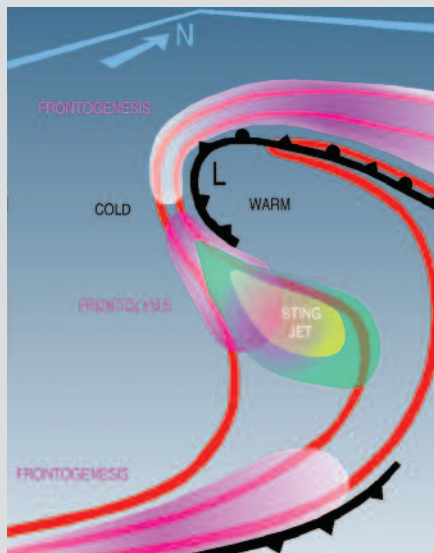
## Storm study reveals a sting in the tail

Meteorologists have gained a better understanding of how storms, like the one that battered Britain in 1987, develop making them easier to predict.

Professor David Schultz, from the School of Earth, Atmospheric and Environmental Sciences, and colleagues have described how these types of cyclones can strengthen to become violent windstorms.

The researchers say that the winds, known as sting jets, are generated from a descending motion of air several kilometres above the surface to the north and north-east of the depression.

Watch a video about the research at: <http://youtu.be/O6tqDNQJvaU>



## Bigger babies at greater risk of autism

The biggest study ever of fetal growth and autism, led by Manchester, has reported that babies whose growth is at either extreme in the womb, either very small or very large, are at greater risk of developing autism.

It's the first time that a clear link has been made between babies who grow to above average size at birth and risk of Autism Spectrum Disorder and follows on from a study of more than 40,000 child health records in Sweden.

The study, led by Professor Kathryn Abel from the Institute of Brain, Behaviour and Mental Health, found that bigger babies who were born weighing over 4.5kg (or 9lb 14) showed a higher incidence of autism, as did smaller infants who were born weighing less than 2.5kg (5.5lb).



## Wartime diaries helped radicalise soldiers

**A** historian studying World War II soldiers responsible for violent atrocities in the Far East, says they were partly radicalised by their diaries.

Dr Aaron William Moore, from the School of Arts, Histories and Cultures, has been studying the private diaries of 200 American, Chinese and Japanese soldiers over the past ten years for a new book.

The diaries he found were written during the eight years of 'total war', in which up to 20 million Chinese died and resulted in two million Japanese military casualties.

"The state did not 'brainwash' these people into committing atrocities," said Dr Moore.

"Rather, it was a number of factors, including their diaries, which they used to build up a rationale which normalised acts of extreme violence."



## Peeping at the pupae

Dr Tristan Lowe, Professor Philip Withers and Dr Russell Garwood, in the Henry Moseley X-ray Imaging Facility, the School of Materials, have produced stunning 3D images of *Vanessa cardui* pupae developing inside the chrysalis. The team used a computed tomography (CT) scanner on nine pupae as they underwent metamorphosis into painted lady butterflies inside a hard outer shell.

# Investing in Success

Investing in Success is a £1 million initiative to boost staff development. It has resulted in a fascinating array of projects which show just how passionate our people are about their work here at the University. Unilife throws the spotlight on some of the success stories so far...



## In the picture

**T**he success of the University's online distance courses in Egyptology, attracting students from teenagers to octogenarians around the world, reflects the enduring popular appeal of the subject.

Directing the programme is Dr Joyce Tyldesley, Senior Lecturer in Egyptology in the Faculty of Life Sciences and Honorary Research Associate at the Manchester Museum.

Her award enabled her to make a field trip to Egypt to gather course materials. "It was exhausting, but I came back with more than a thousand clear images of key Egyptian sites," she says.

She also used the grant to make some short films in the Museum.

As a result, Joyce now has at her disposal a range of unique copyright-free learning materials: photographs, film clips, filmed and recorded interviews. "We can bring Egypt to our students, wherever they are in the world," she says.

Joyce is well known for her books on Egyptology and ancient Egyptian life. Her book on Cleopatra was chosen as Book of the Week on BBC Radio 4. She has also written several TV series.

She was inspired to study the subject when Professor Rosalie David visited her school, having pioneered Egyptology at this University. Joyce recently returned there as a guest speaker herself.



## An App for teacher

**W**e've all heard of an apple for the teacher but how about a much more useful App?

Award-winning senior teaching fellow Geoff Rubner is developing just that with his Investing in Success funding – a Smartphone friendly mechanism to give instant feedback to lecturers as they teach and to the students keen to know how they are doing.

The technology works rather like 'ask the audience' from 'Who Wants to be a Millionaire?' Lecturers ask a multiple choice question partway through a lecture and the students respond, previously using hand-held devices – or 'clickers' – to send their answer to specialist software running on the lecturer's laptop.

If a lot of answers come back wrong, the lecturer knows he or she has to alter their lecture to redress that. It also means students are not embarrassed to put their hands up and be seen to get the answer wrong.

Geoff's 'mbclick' system replaces a clicker with the students' mobile phone. It is designed so that students can also get individual feedback on their answer. For the teacher, no specialist software is necessary as it all works through the web. It also works with Microsoft PowerPoint.

Geoff, who is from the School of Electrical and Electronic Engineering, adds: "At Manchester lecturers often have to 'book out' hundreds of clickers, cart them to the lecture theatre and then collect them again at the end, taking time away from the lecture. Alternatively clickers are loaned out to students, who sometimes forget to bring them to class. One thing they don't often forget however is their mobile phone!"

Geoff was inspired when he realised in small tutorials of six students he could "look them in the eye" and see if they knew the answer, then quickly give them feedback.

"I wanted to translate that into a lecture theatre," he recalls, "to improve their experience of lectures and to get more value from them, ultimately helping them become better learners and critical thinkers."

'mbclick' has been licensed by the University of Glasgow and the Universidad Del Norte in Colombia and is looking for more early adopters through UMI<sup>3</sup>.

Every year, the University celebrates the volunteering achievements of staff, students and alumni who share their skills, knowledge and experience while juggling busy lives. Here UniLife looks at this year's winners of the Volunteer of the Year Awards and University Medals for Social Responsibility.



Professor Nancy Rothwell with winners (l-r) Alice Engelhard, Dr Rebecca O'Loughlin and Dr Sheena Tyler

# Giving something back

**A**s President and Vice-Chancellor Professor Nancy Rothwell put it, these are the people who help our University "give something back."

A community group's "Mount Etna," a "smiley, enthusiastic, warm" student who helps homeless women, and someone who thinks devoting 160 hours a year to the Samaritans helpline is "nothing out of the ordinary" – the University's Volunteer of the Year awards honoured them all, and many more.

There were 56 shortlisted nominees – nine staff, 28 students and 19 alumni – including **staff winner Dr Rebecca O'Loughlin**, a listening volunteer for the Leeds branch of the Samaritans for 11 years.

A challenging and demanding role, Rebecca's commitment adds up to

around 160 hours a year, which is particularly impressive as she often starts a shift after finishing work and a two-hour commute.

Over the years, Rebecca has taken on a number of leadership roles at the Samaritans, including that of Samaritan Leader for 18 months, where she was responsible for a team of five volunteers on each shift.

As her day job, Rebecca works as a Learning and Assessment Developer within the Careers and Employability Division, and her manager, Colette Cooke, nominated her for the award. Colette says: "As well as being a listening volunteer, Rebecca has taken on a number of different roles for the Samaritans, including going into Leeds Prison to provide support to inmates, especially those feeling suicidal or at risk of self-harming.

She took this on in addition to her telephone support work.

"The great thing about Rebecca is she doesn't realise how special she is, she's a very understated person – it's extraordinary that sometimes she finishes a full day's work and then completes a shift for the Samaritans which might be overnight."

One of the judges, Dr Andy Balmer from the School of Social Sciences, said: "The work that Rebecca does can often be quite invisible, because she's not allowed to talk about the calls she engages with, and it requires an emotional resilience and determination to support people in very vulnerable situations and then to go back to your everyday life and work."

After the ceremony, Rebecca said: "I'm thrilled to win the award, and the Samaritans will be delighted that

our work has been recognised in this way. The simplicity of what we do, just being there to provide confidential, non-judgemental support for people who often don't know which way to turn is its own motivation and reward. If winning this award can raise awareness of what we do, then that is fantastic."

Professor Nancy Rothwell said: "The Social Responsibility and Volunteer of the Year Awards highlight exceptional voluntary work being carried out not only in the Manchester area, but in countries around the world.

"The quality of the nominations has been extremely high and there were some tough judging decisions. Social responsibility is one of our core goals, and it's important we recognise those making hugely valuable contributions to communities."



### Student winner Alice Engelhard

Student winner Alice Englehard, who is studying for a BA (Hons) in European Studies and Spanish, is the lead co-ordinator of a project for homeless women.

Alice leads a team of volunteers who prepare and cook a meal for

residents once or twice a week, as well as offering activities and outings. Her group is the only one to go into the shelter on a regular basis.

This year, Alice has been instrumental in building a community garden at the centre following feedback from the residents who expressed feelings of claustrophobia while in the centre.

Alice and her team have planted flower beds outside and it's given the residents a much-needed public space.

Tricia Duffy works at the Women's Direct Access Centre and said: "Every Wednesday and Sunday, this group of very smiley and chatty women come into the project and they create this lovely, nurturing environment."

Jack Burke is the volunteer co-ordinator for Student Action, the voluntary arm of the Students' Union. He nominated Alice for the award and said: "I think this project is by far one of the most challenging that Student Action runs. Alice is warm and enthusiastic and has an outstanding manner – I'm so proud of what she has achieved."



### Alumni winner Dr Sheena Tyler

Alumni award winner Dr Sheena Tyler has set up the Longdendale Community Group in Tameside, inspiring hundreds of people to make their voice heard in an area where people don't find it easy to participate in consultation processes.

Sheena has mobilised the local community on issues such as a possible superstore development and plans for an industrial estate on a local playing field and wildlife site of biological importance.

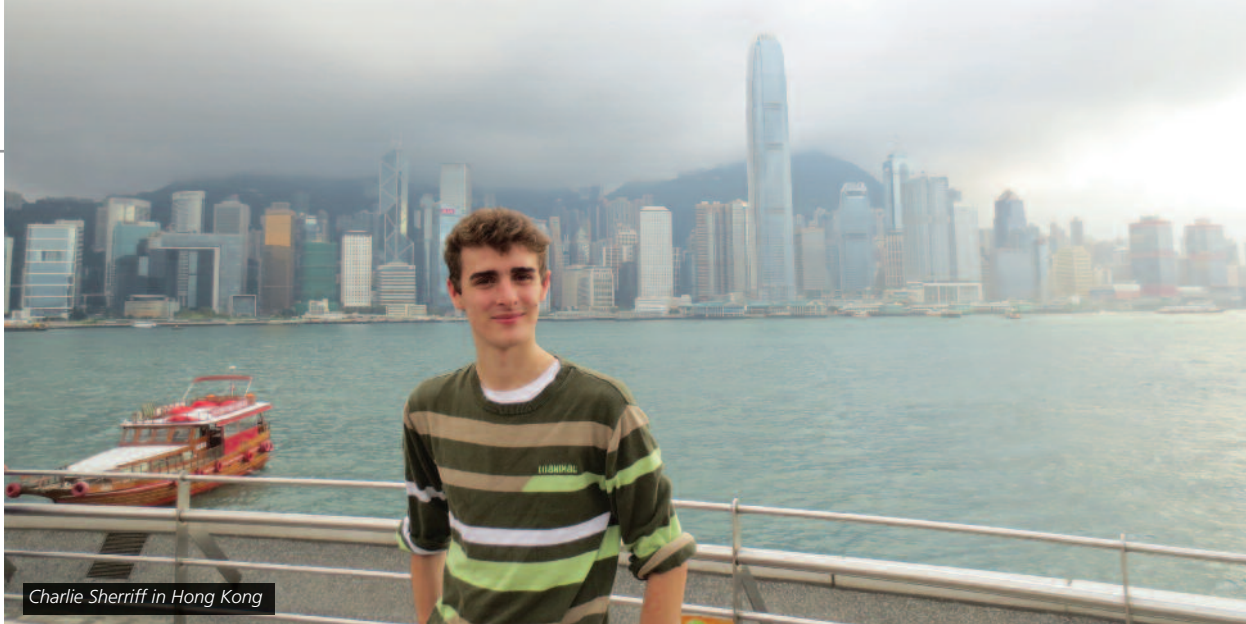
Sheena advised local residents on how to express their concerns, organising leaflets and drafting petitions. Several local councillors changed their stance by objecting to planning applications after Sheena tirelessly collated evidence from flora, fauna and noise pollution experts.

Following Sheena's persistence and determination, the local council even set up a website where people can access information on what's happening in their area.

Sheena's husband Dr David Tyler nominated her for the award, and he said: "Sheena is the person with vision, drive and energy who has been able to put a team together and achieve something in our community that was completely lacking before.

"The spectrum of political opinion within the group includes Labour, Liberal Democrat, Conservative, Communist and UKIP. Sheena has ensured that the group rises above politics, focussing on community welfare issues that allow shared values to be expressed."

Duncan Hollows, Longdendale Community Group member adds: "Sheena is the 'Mount Etna' of our group – she erupts on the area, she always charges, never retreats!"



Charlie Sherriff in Hong Kong

# Widening horizons

UniLife is highlighting the work of the Study Abroad Unit, through which the University offers many students from all disciplines the opportunity to spend time in another country, studying or working.

As Director for the Student Experience Dr Tim Westlake says: "My hope is that these opportunities for our students expand and that as many of our students as possible can take advantage. From my experience running the Erasmus Programme, they can be life changing."

For details contact Dr Caroline Whitehand on: 275 3041 or email: [caroline.whitehand@manchester.ac.uk](mailto:caroline.whitehand@manchester.ac.uk)

Here UniLife throws the spotlight on two more student and staff experiences.

## Charlie Sherriff: Politics and Modern History



### Studying at The University of Hong Kong, 2013.

Studying abroad at The University of Hong Kong has to be the best decision I have made as an undergraduate.

Living in Hong Kong has been an invaluable experience. Firstly, the student community is fantastically diverse and since arriving, I have come to form a close-knit group of friends from all corners of the world.

Furthermore, the experience has been intensely rewarding academically. Studying under a liberal arts system, I have been versed on subject areas I would otherwise not have had the opportunity to study, including Japanese Society and Chinese Literature.

Experiencing local cultures first-hand has formed the highlight of my study abroad experience. In particular, I have been exposed to the diverse traditions that accompany Chinese New Year in Hong Kong and the annual Lantern Festival in Taiwan.

I will return to England this summer with my confidence boosted. Not only will I feel as though I have more to offer to future employers in terms of my experience, but I am now motivated to look to working abroad once I graduate.

I would recommend study abroad for anyone. In my opinion, it is the perfect way for a student to step out of their comfort zone and have an experience that will shape not only their academic interests, but also the way they view the world.

## Dr Eithne Quinn Lecturer in American Studies, School of Arts, Languages and Cultures



### Studied abroad at George Washington University (GWU), Washington D.C., USA, 2001-2002.

One of the main reasons I chose a degree in American Studies was because of its Study Abroad component. Manchester had (and still has!) an impressive range of partner institutions in the US and I landed a place at George Washington.

The year I spent at GWU was fabulous.

It took me a little while to adjust to the different culture and make friends, but once I got the hang of things it was an incredibly rich and formative experience.

I found the courses intellectually interesting, in American History, African American Literature, Cultural Theory, and Journalism. The cultural theory fed into my final year dissertation topic back home, and helped kick start my plans for postgraduate studies.

I also applied for an 'internship', the long-established US practice of students gaining work experience as part of their degrees. Because it was D.C., there were political internships available and I got one at a political action committee in the Washington suburb of Bethesda.

Little did I know that the committee lobbied for a number of causes that some might have considered controversial! However, it gave me insights into how political issues are framed and propagated, and forced me to work out my own views.

Though I learnt a lot from my internship, I ultimately learnt more from the part-time filing job I did in GWU's payroll department. I spent so many hours listening to the DC women talk as they worked, while I beetled away filing forms. It immersed me in the lives and travails of everyday Americans.

Now, as programme director of the same American Studies course on which I studied some twenty years ago, I strongly recommend Study Abroad to my students.



# taste Manchester

## Welcome Week Catering Packages

### Organising a Welcome event?

Taste Manchester are now taking bookings for Welcome Week.

There's a delicious range of packages to make your welcome event one to remember.  
We have a range of lunchtime and evening menus, including barbeques, pizza, sandwich platters and much more.



#### Sample BBQ Menu\*

Beef burger  
Hot dog / Veggie hot dog  
Veggie burger  
Cupcake  
Orange juice or water

From **£3.95**

\*Subject to availability, minimum order 150



#### Sample Reception Menu

'Welcome' cupcakes  
Bucks fizz, orange juice  
or water

From **£3.75**



#### Sample Evening Menu

Traditional lasagne  
Veggie lasagne  
Garlic bread  
Coke or water

From **£4.95**

To book contact one of the Taste Manchester team on  
**64083 to discuss your requirements or**  
**email [tastemanchester@manchester.ac.uk](mailto:tastemanchester@manchester.ac.uk)**



Butterflies from  
Nature's Library at  
Manchester Museum

# What's On

## Manchester Museum

### Nature's Library now open

**Warriors of the Plains: 200 Years of Native North American Honour and Ritual** until 3 Nov

**Collecting Trees** until 6 Oct

### FAMILY ACTIVITIES

Every other Tuesday, 11 and 25 Jun, 10.30-11.15am, 12.30-1.15pm and 1.30-2.15pm

### Baby Explorers

Sensory play for babies

Fri 28 Jun, 10.30-11.30am and 11.30-12.30pm

### Magic Carpet: Trees

For under five's and their carers

**Big Saturdays**, 11am-4pm, Drop-in

Sat 29 Jun: **Trees**

Sat 13 July: **Dig Now**

Sat 10 Aug: **Bees and Butterflies**

### Summer Hols

Mon 22-Fri 26 July

**Ancient Worlds hands on activities, part of the Festival of Archaeology**  
Mon 29 July-Fri 30 Aug: **Nature's Library**  
Wed 7 Aug: **National Play Day**  
Weds 7, 14, 21 and 28 Aug: **Warriors of the Plains**

### MUSEUM MEETS – ADULT PROGRAMME

Every Weds and Thurs, 1pm  
**Taster Tours**

First Weds of the month, 1-2pm

### Collection Bites

Sun 9 and 16 Jun, 11.30am-3.30pm, £35

### Egyptian Ceramic Jewellery

Weds 12 Jun, 1-2pm

**The Confucius Institute China Talks: Hong Kong Cinema**

Tues 25 Jun, 5.30-6.30pm

### Manchester Museum Book Club

Thurs 27 Jun, 2-3pm (drop-in)

### Rock Drop

**Urban Naturalist**, 2-4pm, £3

Sat 29 Jun: **Herbal Medicine Walk**

Sat 27 Jul: **Summer Tree Walk**

Sat 31 Aug: **Lichen**

Sat 29 Jun, 2pm

**Talking Trees in Ancient Egyptian Love Poetry**

Sat 6 July, 11am-3pm

**Dig Your Park: The Whitworth Park Community Archaeology and History Project Open Day**

Thurs 11 July, 2-3pm

**How to Identify Dinosaur Bones and Eggs**

Sat 13, Thur 18, Tues 23 and Thur 25 July, 1-3pm

### Conservation on Show

Sun 21 July, 1-3pm, £3

**What You Can Learn From an Ancient Sock**

Wed 24 July, 1-2pm

**Ian Panter and Conserving The Past: Voices from the Ancient Worlds' Gallery**

Thurs 25 July, 6.30-9pm

### After Hours: Trees

Sat 3 Aug and Wed 4 Sep, 2-4pm, £5/£3

**Native North American Beading Workshop**

Thurs 15 Aug, 10am

**Discover Geology: An Augmented Reality Field Trip**

Wed 21 Aug, 2-3pm

**How to Identify a Meteorite**

Opening times

Open: Tues-Sat 10am-5pm

Sun-Mon (and Bank Holidays) 11am-4pm

FREE admission

The Manchester Museum,  
Oxford Road, Manchester  
0161 275 2648

[www.manchester.ac.uk/museum](http://www.manchester.ac.uk/museum)  
Follow us on Twitter @McrMuseum  
[www.facebook.com/ManchesterMuseum](https://www.facebook.com/ManchesterMuseum)

## Whitworth Art Gallery

### EXHIBITIONS

**Sublime: Watercolours of the Welsh Landscape** until 16 June

**Michael Landy: Four Walls** until 16 June

**Richard Long** until 16 June

**Nancy Holt** until 16 June

**Callum Innes** until 16 June

**Beryl Korot: Text and Commentary** until 16 June

### ADULT EVENTS

Every Thurs, 8.30-9.45am, £3 (booking essential)

**Yoga** (until 29 Aug)

Sun 23 Jun and 7 Jul, 12.30-1.15pm

**Performances by RNCM Students**

Sat 6 Jul, 11am-4pm

### Saturday Supplement

Sat 6 July, 10pm-2am

**Coal on Cotton: After Hours**

Weds 10 Jul and 14 Aug and Sat 18 May, 20 Jul and 17 Aug, 1-3pm, £5 (booking essential)

### Crafternoon Tea

Sat 13 Jul and 10 Aug, 1-3pm

### Textile Art Now

Sat 13 Jul 7.30-10.30pm

### After Hours

Sat 27 July and 24 Aug, 1-3pm (booking essential)

### Alternative Camera Club

### FAMILY EVENTS

Every Weds, 10.15-11.15am or 11.30-12.30pm, (booking essential)

### Art Baby

Every Mon, 10.30-11.30am or 11.30-12.30pm, (booking essential)

### Toddlerstastic

Every Sun, 1.30-3.30pm

### Colourful Sundays

For more information on our exhibitions and events, please visit our website.

### Opening times

Mon-Sat 10-5pm, Sun 12-4pm

### FREE Admission

The Whitworth Art Gallery  
Oxford Road, Manchester  
0161 275 7450

Booking line 0161 275 7450

email [whitworth@manchester.ac.uk](mailto:whitworth@manchester.ac.uk)

[www.manchester.ac.uk/whitworth](http://www.manchester.ac.uk/whitworth)

## The Martin Harris Centre for Music and Drama

### ESTIVAL 4-6 Jun

Join the Music Society in the final week of term for our annual music festival.

The Martin Harris Centre for Music and Drama

Bridgeford Street, Manchester, M13 9PL  
0161 275 8951

email [boxoffice@manchester.ac.uk](mailto:boxoffice@manchester.ac.uk)

[www.manchester.ac.uk/](http://www.manchester.ac.uk/)

[martinharriscentre](http://martinharriscentre)

# The John Rylands Library (Deansgate)

## EXHIBITIONS

**Locating Boccaccio** 11 Jul to 20 Dec

**Picturing Stories: British and French Romantic Illustrations** from 9 Aug

**Polari Mission: Bona Eek** from 16 Aug

**EVENTS** (booking essential unless stated)

Fri 7 Jun, 6-8pm

**An Evening with Beau Beausoleil**

Thurs 13 Jun and Sat 29 Jun, 12-1pm

**Florence Nightingale: What Nursing Is and What It Is Not**

Fri 14 Jun, 1-2pm

**Burning Bright: Curator Tour**

Weds 19 Jun - Sun 11 Aug, 2.30-3.30pm

**Unusual Views: Library Tours for Photographers**

Sat 22 Jun, 1-4pm

**Make Your Own Charms**

Tues 9 Jul, Weds 7 Aug - Sun 8 Sep, 2-3pm

**Gargoyles R Us**

Weds 10 Jul and Sat 13 Jul, 12-1pm

**Manchester Man**

Tues 9 Jul 1-2pm

**It's Wizard!**

Weds 10 Jul, 7-8pm

**Public Lecture: The Artist and the Book**

Weds 10 to Fri 12 July

**Locating Boccaccio in 2013 Conference**

Sat 13 Jul and Fri 9 Aug,

**Enchanting Tales** 11-12pm

**Here Be Dragons!** 12-1pm

Weds 17 Jul and Sun 22 Sep, 2.30-3.30pm

**A Peek Behind the Scenes!**

Thurs 18 Jul, 5-6.30pm (adults) and Thurs

29 Aug, 2-3pm (families, children 5-10)

**Tall Tales and Short Sagas**

Sat 20 Jul, 5-7pm

**Launch of our 'Summer of Magic'**

Sat 20 and Thurs 25 Jul, 1-2pm

**Locating Boccaccio in 2013: Curator**

**Tour and Discussion Encounter**

Tues 30 Jul and 6, 13, 20, 27 Aug, 1-4pm

**Summer Fun!** (no need to book)

Thurs 8 Aug, 11-12.30pm

**Magic Treats and Treasures**

Fri 9 Aug, 2-3pm

**It's a Kind of Magic**

Sat 10 Aug, 1.30-4pm

**Magical Beasts and Monsters**

Sat 17 Aug and Weds 21 Aug, 12-1pm

**Mapping Victorian Manchester**

Sun 18 Aug, 11-4pm

**Harry Potter Day**

Sat 31 Aug and 28 Sep

**British and French Romantic**

**Illustrations Curator Tour** 12-1pm

**Bona Eek Curator Tour** 1-2pm

**Whimsical Wednesday Workshops,**

1.30-4pm

19 June: **Not a Patch on You**

31 Jul: **Miniature Marvels**

21 Aug: **Illuminated Borders**

25 Sep: **Monoprinting**

Every third Thursday in the month, 12-1pm

**Tour and Treasures**

For further details of our events, please visit our website.

**FREE ADMISSION**

Public opening times: Sun-Mon 12-5pm,

Tues-Sat 10am-5pm

Reader opening times: Mon-Weds, Fri-Sat

10am-5pm, Thurs 10am-7pm

The John Rylands Library

150 Deansgate, Manchester, M3 3EH

Visitor/Event Enquiries: 0161 306 0555

General/Reader Enquiries:

0161 275 3764

[www.library.manchester.ac.uk/specialcollections/](http://www.library.manchester.ac.uk/specialcollections/)

# Gig Guide

**Manchester Academy 1, 2 and 3**

Weds 5 June **Megadeth** - £27.50

Weds 5 June **Camera Obscura** - £11

Weds 5 June **Twenty / One / Pilots** - £8

Fri 7 June **Mudhoney**

**+ Meat Puppets** - £17.50

Fri 7 June **Hip Hop Shakespeare**

**present Richard II Live**

**Tour featuring Bashy**

**& Akala** - £10

Sat 8 June **Tigerside +**

**Chris Shaughnessy +**

**Kelly's Heroes +**

**Here Lies Nugget** - £6

Sat 8 June **Rhema Praise** - £9

Sat 15 June **Macka B + The Liberation**

**+ The Natural Vibes** - £12

Sat 15 June **Manc Floyd** - £10

Weds 19 June **Danzig 25th Anniversary**

**Tour + Misfits Set with**

**Special Guest Doyle +**

**In This Moment** - £22.50

Fri 21 June **Snakecharmer +**

**Hell to Pay** - £17.50

Sat 22 June **Titots Insignia +**

**Jay Diggins + Standby +**

**Good Manners** - £6

Sun 23 June **MK1** - £10

Mon 1 Jul **Smashing Pumpkins +**

**Beware of Darkness** - £35

Weds 10 Jul **Clutch** - £15 (This show has

**moved to The Ritz. Original**

**tickets remain valid)**

Weds 10 Jul **Aesthetic Perfection** - £14

Sat 13 Jul **The Mend** - £10

Mon 15 Jul **MS MR** - £9

Tues 16 July **Modest Mouse** - £17.50

Weds 17 Jul **Wintersun** - £16

Fri 19 Jul **Room 94** - £7

Weds 24 Jul **Icon of Coil** - £14

Sat 27 Jul **Room 94** - Extra date - £7

Weds 31 Jul **Trembling Bells and Mike**

**Heron + Ravens** - £12.50

Sat 3 Aug **The Headbangers Balls**

**Tour featuring Xentrix +**

**Reign of Fire** - £10

Sat 3 Aug **Texas Is The Reason Last**

**Ever Live Shows** - £16.50

Tues 6 Aug **Pitbull Global Warming**

**Tour 2013** - £29.50

Tues 13 Aug **The B-52's** - £30

Fri 6 Sep **Emily Portman Trio +**

**Ottergear** - £10

Sat 7 Sep **Babyshambles** - £23

Sun 8 Sep **Wiley**

Thurs 12 Sep **Macklemore And Ryan**

**Lewis** - £17.50 (This show

**has moved to Manchester**

**02 Apollo)**

Tues 24 Sep **Y & T** - £15

Sat 28 Sep **Evile** - £5

Tickets from

Students' Union, Oxford Road

Piccadilly Box Office @ easy Internet Café (c/c)

0871 2200260

Royal Court (Liverpool) 0151 709 4321 (c/c)

Students' Union

Oxford Road, Manchester, M13 9PL

0161 275 2930

[www.manchesteracademy.net](http://www.manchesteracademy.net)

# International Society

Visit some of the most beautiful and interesting locations around England, Scotland and Wales. There are visits taking place almost every weekend throughout the year.

Sat 8 Jun **Alton Towers**

Sun 9 Jun **Peak District visiting**

**Chatsworth House with its**

**Food and Drink Fair**

Sat 15 Jun **North Wales visiting**

**Portmeirion Village and a**

**ride on the Welsh Highland**

**Railway to Caernarfon**

Sun 16 Jun **Tatton Park's**

**Medieval Fayre**

Sat 22 Jun **Robin Hood's Bay and**

**Scarborough**

Sun 23 Jun **North Wales visiting**

**Bodnant Gardens and**

**Penrhyn Castle**

Sat 29 Jun **Liverpool (with guided tour)**

Sun 30 Jun **Chester (with guided**

**walking tour)**

Sat 6 Jul **Central Lake District visiting**

**Aira Force Waterfall and**

**Bowness-on-Windermere**

Sun 7 Jul **Blackpool**

Sat 6 to **Overnight visit to**

Sun 7 Jul **Edinburgh**

Sat 13 Jul **York**

Sun 14 Jul **North Wales visiting**

**Caernarfon Castle and**

**Portmeirion Village**

Sat 20 Jul **Stratford-upon-Avon**

Sun 21 Jul **Yorkshire Dales visiting**

**Ingleton Waterfalls Walk**

**and White Scar Caves**

Sat 27 Jul **Skipton Castle and**

**Harrogate**

Sun 28 Jul **Lake District with a ride on**

**the Lakeside and**

**Haverthwaite Railway, a**

**cruise on Lake Windermere**

**and a visit to the Lake**

**District Visitors Centre**

Sat 3 Aug **North Wales visiting Conwy**

**Castle and Llandudno**

Sun 4 Aug **Lake District visiting**

**Keswick**

Sat 10 Aug **Chester and Cheshire Oaks**

Sat 17 Aug **Whitby**

Sat 24 Aug **Liverpool**

Sat 31 Aug **Central Lake District visiting**

**Coniston, Ambleside**

**and Windermere**

**Opening times**

Mon-Fri 9.30am – 7pm (during term time)

Mon-Fri 9.30am – 5pm (during vacation)

**Small World Café opening times**

Mon-Fri 11am – 3pm

327 Oxford Road (next to Krobar)

0161 275 4959

email [int.soc@manchester.ac.uk](mailto:int.soc@manchester.ac.uk)

[www.internationalssociety.org.uk](http://www.internationalssociety.org.uk)

# Chaplaincies

**St Peter's House Chaplaincy**

Sunday, 11am Holy Communion

12.45pm Lunch (1st Sun)

Sunday, 6.30pm Evening Worship

(term-time only)

FOYER 10am – 5pm, weekdays

12.15pm Wednesdays Eucharist

An area where students and staff can relax

and meet friends. A tea/coffee machine

is available.

**RC Chaplaincy Avila House**

Mass Times (term-time only)

Sun, 7pm, Holy Name Church

Mon, Tues, Thurs and Fri, 5.30pm

Chaplaincy Chapel

Weds, 1.05pm, Chaplaincy Chapel

**The Jewish Student Centre and**

**Synagogue**

07817 250 557

Email Rabbi Mati Kos:

[rabbikos@mychaplancy.co.uk](mailto:rabbikos@mychaplancy.co.uk)

**Muslim Chaplaincy**

South Campus Mosque, McDougall Centre

Jammat (Group Prayer) Daily

Juma Prayer Friday 1.15pm

Honorary Imam: Imam Habeeb,

[h\\_chatti@hotmail.com](mailto:h_chatti@hotmail.com)

**North Campus Mosque**

Basement of Joule Library

Sackville Street Building

Jammat (Group Prayer) Daily

Juma Prayer Friday 12.30pm

The role of Volunteer Muslim Chaplain is to

provide pastoral support, guidance and a

listening ear to Muslim staff and students

Chaplains' email:

[assia\\_shah61@yahoo.co.uk](mailto:assia_shah61@yahoo.co.uk)

# Jodrell Bank Discovery Centre

Jodrell Bank Discovery Centre offers a great day out for all the family. Come and explore the planets using our model of the Solar System. Find answers to the wonders the Universe, listen to the sounds of the Big Bang and discover what the scientists are researching 'Live' in our interactive Space Pavilion. The glass-walled café offers spectacular views of the iconic Lovell telescope and fantastic homemade cakes!

Thurs 20 Jun – 7.30 pm (tickets £8 adults / £6 child/concession)

**Lovell Lecture: The Path to Finding**

**Habitable Exoplanets**

**LIVE FROM JODRELL BANK MUSIC**



## Stone love

Our University is home to some amazing objects. Each month in UniLife we ask someone to share with us one of their favourite fascinating artefacts.

One of the Whitworth Art Gallery's exhibitions is not only stunning and unusual – Richard Long's large installations are made of quarried stones and take up most of the floor space – it mirrors the Gallery's major £15 million refurbishment to intertwine it with its surroundings, the historic Whitworth Park.

Long, at the centre of the Land Art movement, changed the artist's view from that of observing the landscape to journeying through it.

And one piece 'Tideless Stones', has struck a chord with Chris Smith, Construction Director of the building firm ISG, the main contractor on the refurbishment. For beneath the hard hat, goggles and fluorescent vest beats the heart of a seasoned traveller who is fascinated by landscapes in the same way as Long himself.

"I really like this piece because quite simply I like what I see, and it's interesting to know where he got his inspiration from and the thought processes behind it," he explains.

"Being a builder, I even like the room it's in, the brickwork and terracotta. And of course it links into what's happening outside."

ISG is using high quality natural materials to ensure the rebuild links the Gallery and the park "seamlessly," says Chris, who is taking a strong hands-on approach for such a high profile, major cultural redevelopment in the contractor's home town of Manchester.

They are also re-using cobbles from the street which, as Chris says, "is using parts of the existing building within the new design, which is both sustainable and ties old with new."

Chris, whose travels take in as much of a country, its people and the landscape as possible, has just returned from a particularly inspiring trip to Cambodia.

"I visited Angkor Wat, a complex of temples in the middle of the jungle," he recalls.

"It's built of stone and it has been there for thousands of years so has blended into the surroundings. It reminded me of a visit to Machu Picchu in Peru, another man-made object that has totally blended into the landscape.

"It was amazing to see."

Let's hope some of that magic is built into the Whitworth...



Chris Smith admires Tideless Stones