

UniLife

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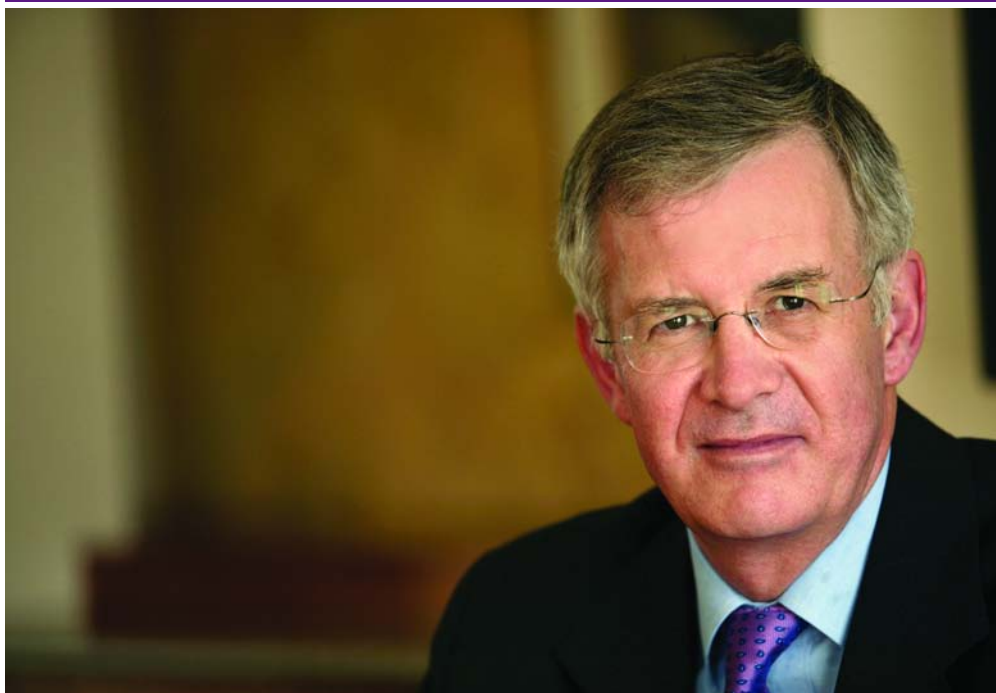
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Front cover:
From left: Gareth Aubrey,
Adrain Anslow, Joseph Meager,
Chris Holmes with coach Stephen
Pearson (seated)

Photo courtesy of BBC2

Letter from the President



A lot of hard work has been going on over recent weeks to produce a draft 2006-07 Budget for recommendation via the Planning and Resources Committee to Finance Committee and the Board of Governors.

The good news about our 2006-07 budget is that revenue has grown significantly in real terms. While reducing our overall deficit as planned, we will have around £75 million more to spend than we had in 2005-06, and more than half of this represents real growth. Research income and fee revenue are both significantly higher.

Budgeting is about managing scarcity. The number of initiatives worth pursuing always exceeds the resources available. Desirable initiatives have to be discarded in favour of highly desirable competing proposals, and even the highly desirable sometimes has to give way to the absolutely imperative. That makes planning important. A good plan provides a rational, carefully considered basis for choosing between competing demands, and introduces serious strategic considerations into the hard choices that budgeting always imposes.

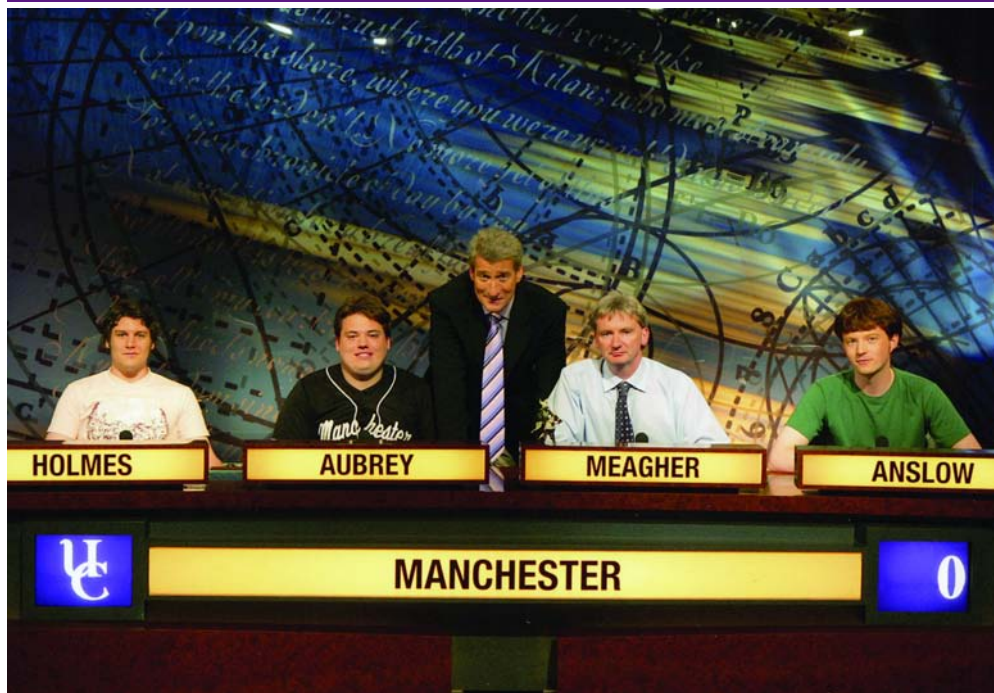
Disciplined, plan-driven budgeting means asking, of all the new things we would like to do, what are the most important and how many are affordable? More disconcertingly, it also involves the harder question, should we be willing to discontinue some of our existing activities in favour of new initiatives that are clearly more important? The right decision is sometimes to abandon successful existing programmes in order to fund an emerging higher priority.

Making such choices is difficult at the best of times. But there is an enormous difference between a budget that is growing and one that is not. When resources are diminishing it is extraordinarily difficult to keep aspiration and creativity alive. Even the most ambitious, creative people begin to focus on just keeping things going, so the fact that our budget is growing is good news indeed.

Yet the truth remains that our Manchester 2015 Agenda will not be realised without even greater revenue growth year-in, year-out over the next decade. Without continuing emphasis on growing revenue and, (where possible without compromising quality) reducing costs, the gap between our ambitions and our resources will stifle creativity and stultify morale.

Scarcity is a relative concept. It varies with the breadth and boldness of our ambitions. So creating the circumstances in which revenue can grow in the years ahead is arguably the greatest single challenge for leaders at all levels of the University committed to the high educational, research and scholarly aspirations of the 2015 Agenda.

Professor Alan Gilbert
President and Vice-Chancellor.



Manchester wins University Challenge

A TEAM from The University of Manchester has scooped the University Challenge title for 2006. The Manchester team beat Trinity Hall, Cambridge, in one of the most nail biting finals ever seen on the BBC, eventually triumphing by 160 points to 150.

Their success was watched live by a group of more than 60 senior academics and members of the Board of Governors, including President Professor Alan Gilbert and Chancellor Anna Ford, at the Christie Bistro.

It's the first time Manchester has ever won the popular TV quiz since it first appeared on our screens more than 40 years ago. Manchester beat Trinity Hall, Cambridge, having overcome Imperial College School of Medicine in the quarter-finals and London Business School in the semi-finals.

The winning team was coached by Stephen Pearson of the John Rylands University Library who said: "We've lost three semi-finals during my time at Manchester, so I'm glad to find this year that my association wasn't the kiss of death for our hopes in the last four!"

This team consisted of captain Joseph Meagher (Politics), Gareth Aubrey (Astrophysics), Chris Holmes (Material Science) and Adrian Anslow (Mathematics).

Team captain Joseph Meagher said: "The final was extremely tight - it was great television, and we were delighted to come out on top."

Manchester has an unusual record in the competition - in the mid-1970s a team of Manchester students, including broadcaster and columnist David Aaronovitch, protested against the 'elitist' nature of the programme by answering 'Trotsky' or 'Lenin' to every question.

Stephen said: "As I understand it, they argued that the programme was elitist because, whereas other universities had to submit one team from the whole university, each of the sixty or so colleges at Oxford

and Cambridge could submit teams. This meant that Oxford and Cambridge had a much higher presence on the programme than other universities."

Manchester reached the semi-finals last year, but went one better this time round, despite some tough questioning from host Jeremy Paxman.

This year's team was chosen after dozens of students applied and were put through their paces with a tricky quiz, consisting of 100 questions. They were also given a separate trial to test their speed on the buzzer, which coach Stephen Pearson believes was critical in this year's success.

Captain Joseph Meagher was quick to praise the efforts of their coach: "We didn't just meet over the university bar and decide to enter. There was quite a rigorous process to get in the team.

"Stephen was putting us through our paces with practice every week and then twice a week when we were in the competition. We took it seriously; it was hard work but it paid off."

A total of 260 teams from around the country entered this year's University Challenge heats, but only 28 were selected to compete in the televised stages.

It was a wonderful occasion in the Christie Bistro as the Board of Governors and senior academics cheered the team into the room carrying the trophy aloft after the screening of the show.

Anna Ford paid her own tribute to the team and said: "You were brilliant - you are a great asset to this University and we're incredibly proud of you."

In brief

'Scientific renaissance' impresses Tory top brass

David Cameron, the Conservative Party leader, arrived on campus last month as part of a flying visit to Manchester.

Accompanied by Shadow Chancellor George Osborne, Mr Cameron arrived at the Michael Smith Building to be greeted by the President and Vice-Chancellor, Professor Alan Gilbert, the Registrar and Secretary, Albert McMenemy, Dean of Life Sciences, Professor Alan North, and Lord Keith Bradley, the University's special adviser on Government relations.

Following a short private meeting, Mr Cameron and Mr Osborne were taken to one



of the building's state-of-the-art laboratories where they were introduced by Dame Professor Nancy Rothwell and Professor Martin Humphries to four postgraduate students and post doctoral researchers from the Faculty of Life Sciences.

Dr Catherine Lawrence, Tassi Halka, Dr Anastasia Simi and Dr Neill Turner each took time to tell the MPs about their research in the fields of neuroscience and vascular biology.

Speaking on Radio 4's Today programme on the morning of the visit, Mr Osborne said: "One of the things we're doing in Manchester today is visiting new biomedical research laboratories at Manchester University, which we hope will become among the leading biomedical research centres in the world.

"That's a brand new facility and one of the reasons we're going there is we want to see how Manchester University is going to spearhead a scientific renaissance in that city."



News in brief

Literary scholar remembered

The life and career of John Stachniewski - a leading scholar of early modern English Literature and President of the UM AUT - was remembered in the annual Memorial Lecture which was held, this year, on Tuesday 2 May.

The Stachniewski Memorial Lecture has attracted many of the most prestigious of John's peers. Professors John Carey and Gary Taylor are just two of many prominent literary scholars to have honoured his memory in addresses in his university.

This year, the event's sponsors, English and American Studies and the UM AUT, were delighted to welcome Professor Willy Maley of the University of Glasgow, whose witty and engaging lecture on Milton's History of Britain was a fitting tribute to the political and scholarly interests of one of the most important of Manchester's literary scholars.

Liquid Crystal Science award for Professor Gleeson



At the 2006 Liquid Crystal Conference, Professor Helen Gleeson was awarded the inaugural C Hilsum Medal by the British Liquid Crystal Society. The medal was awarded for 'overall contributions to liquid crystal science and technology.' Professor Hilsum attended in person to present the inaugural medal.

Having been a Lecturer and Reader in the Department of Physics and Astronomy at this University, Helen was appointed to a Chair in Physics in March 2003. She is currently Associate Dean for Research in the Faculty of Engineering and Physical Sciences.

Many congratulations to Helen on this well-deserved recognition of her outstanding contributions to the study of liquid crystals.

TV star Meera Syal receives honorary degree



Meera Syal and Michael Oglesby

Writer and actress Meera Syal and property tycoon Michael Oglesby received honorary degrees from The University last month.

In presenting the award Professor Viv Gardener said:

"Meera Syal is one of only a handful of women comedy writers and performers whose work has achieved outstanding national and international success. This award is in recognition and admiration of her multiple achievements. It reflects her innovative and radical work in television, film and literature, her perceptive and witty comedy, her passionate commitment to racial equality and multi-culturalism, and her standing as one of the great storytellers in contemporary Britain."

Ms Syal won the National Student Drama Award whilst studying

here and graduated with a Double First in English and Drama. She wrote the screenplays *My Sister Wife* and *Bhaji on the Beach*. Her first novel, *Anita and Me*, won a Betty Trask Award.

She also wrote and acted in the award-winning shows *Goodness Gracious Me* and *The Kumars at No.42*. Her second novel, *Life Isn't All Ha Ha Hee Hee*, was made into a BBC drama series in which she also appears.

Property tycoon Michael Oglesby set up Bruntwood Estates 30 years ago and he quickly established a reputation as one of Manchester's foremost property developers. Bruntwood is now a vast private property company with more than 70 buildings in Manchester, Liverpool, Leeds and Birmingham,

but remains steeped in family traditions.

In presenting the award Professor Dame Nancy Rothwell said: "In spite of these enormous achievements, it is for his outstanding contributions to the city and to the University that Mike is today receiving an honorary doctorate. He has played a major role in supporting the Commonwealth Games and the forthcoming International Festival, he is chairman of MIDAS, of the Governors of the Royal Northern College of Music, of the Manchester City Centre Management Company. He has given his time and expertise generously to the development of the Manchester Cancer Research Centre and remains passionate and committed to the Centre."



Manchester remains top of the popularity league

The University of Manchester remains the UK's most popular university, according to the latest figures.

The University has received 59,522 applications for its undergraduate courses starting in September 2006, the Universities Central Admissions Service (UCAS) statistics reveal.

The figure is almost identical to last year, based on home and overseas applications, and confirms Manchester as the country's top destination for would-be students. The numbers are all the more pleasing given students' concerns over the introduction of tuition fees in September.

Delyth Chambers, Director of Student Recruitment and Admissions, said: "We are very pleased that our figures are holding up, contrary to the national trend, and we hope our generous package of

scholarships and bursaries is helping to maintain our status amongst prospective students.

"The University of Manchester has an excellent reputation and students want to come here to take part in the Manchester experience."

The total number of students to apply for undergraduate courses at The University of Manchester by 24 March 2006 was 59,522, compared to 59,704 the previous year.

Applications for undergraduate study:

The University of Manchester	59,522
University of Leeds	46,613
University of Edinburgh	43,982
Manchester Metropolitan University	40,223
University of Birmingham	38,239

Top ten choice for England's most gifted young people

A survey released today by The National Academy for Gifted and Talented Youth (NAGTY) revealed that The University of Manchester was one of the top ten destinations for England's most gifted young people. Other popular destinations were Cambridge, Warwick, Durham & Oxford.

The National Academy for Gifted and Talented Youth was established by government in 2002. Its role is to drive forward improvements in gifted and talented education. It now has around 85,000 student members and has more recently targeted young people from underrepresented backgrounds.

Julian Skyrme, Head of Widening

Participation at The University of Manchester, said "By helping us to identify able pupils from some of our most disadvantaged neighbourhoods, NAGTY's work fits perfectly into the University's broader goal of ensuring that both excellence and equity are prioritised in relation to student recruitment. We have worked increasingly closely with NAGTY on a range of projects and share their approach in encouraging educational progression through inspirational curriculum enrichment activities that help motivate younger learners to consider higher education more closely. Through our work with NAGTY I'm particularly delighted that many such students are

clearly choosing Manchester as their preferred destination."

NAGTY's Director, Professor Deborah Eyre said: "NAGTY's membership is of immense interest to universities and colleges. Far sighted universities see the obvious benefits of working with NAGTY. Any opportunity they can offer NAGTY membership is an opportunity to showcase their university to those gifted young people. I am delighted to see that the top ten slots in this table are all occupied by universities that have worked closely with NAGTY via the HE Gateway programme, and four of the top ten Universities are NAGTY summer school providers".

News in brief

Multi-million pound genetics research centre launched

The £4million Nowgen Centre was officially launched in April by Dr John Stageman, AstraZeneca's Vice-President for Global Sciences and Information. The University is a key partner in the centre for genetics in healthcare, along with Central Manchester and Manchester Children's University Hospitals NHS Trust and the Universities of Liverpool and Lancaster



The Nowgen Centre is based on Grafton Street and houses the Government's North West Genetics Knowledge Park. It was funded by the Northwest Regional Development Agency (NWDA) and the European Regional Development Fund (ERDF).

Professor Dian Donnai of the School of Medicine, who is Executive Director of the Centre, said: "I would like to pay tribute to both agencies for their vision in enabling the region to play a leading role in the UK's Genetics Agenda".

The facilities will allow Nowgen to help fulfil objectives set by the Government for genetics, including raising awareness of the potential of genetics in healthcare. It has launched an innovative programme of activities, including debates, arts and drama, to involve the public in genetics research.

Dr Stageman highlighted the importance of this engagement, saying: "I very much support this initiative which provides a unique link between business, universities and the health services and also ensures the public voice on genetic opportunities can be heard".

www.nowgen.org.uk/

In brief

New director for tissue regeneration centre

A £1.45million grant from the North West Development Agency has allowed the University to establish the UK Centre for Tissue Regeneration (UKCTR), where researchers from across campus are investigating ways of making tissues reproduce themselves.

Based within the new Core Technology Facility on Grafton Street, researchers at the Centre hope one day to facilitate the growing of new tendons, blood vessels, skin and even replacement organs for patients with conditions from diabetes to heart disease.

Professor Giorgio Terenghi, of the Faculty of Medical and Human Science, has recently been appointed the Centre's Director. He said: "I am thrilled to have taken on this role, as the approach we are taking here has huge potential. Ultimately, if someone has an organ which doesn't work, we would be able to build them a spare part."

The technique combines a patient's cells, including stem cells, with bio-materials and nurtures them in the laboratory for implantation back into the patient.



Manchester tops funding for research stars of the future



The University of Manchester has been awarded £2.75 million to help develop its young researchers – more than any other British university.

The Research Council UK Fellowship Awards are designed to nurture young academic talent within universities and are worth £125,000 each over five years.

Manchester, which was voted the Times Higher Education Supplement's 'Higher Education Institution of the Year' in November, was awarded 22 of the 400 fellowships announced this week, ahead of Oxford University with 20 and Imperial College, London, with 19.

Dame Professor Nancy Rothwell, the University's Vice-President for Research, said Manchester's performance in the funding round was the result of a strong record of research and developing younger staff in exciting areas.

"The fellowships are awarded to institutions in areas where a university wants to build its research," she said.

"I think part of our success was due to choosing innovative areas of research but we also have good training and mentoring procedures for young researchers already in place."

The announcement comes as Manchester continues to embark on its ambitious plans to position itself as one of the top research-led universities in the world by 2015.

The fellowships have been awarded across all four faculties in five priority research themes: 'culture, cohesion and conflict'; 'complexity, modelling and computation for the 21st century'; 'physiological systems'; 'health sciences'; and 'technology at the extreme'.

Obesity research wins parliamentary approval

Research that could one day lead to a treatment for obesity and eating disorders was showcased during a science festival at the House of Commons this week.

Dr Catherine Lawrence, a research fellow at The University of Manchester, was chosen to present her work at the Westminster reception as part of a national competition organised by Science, Engineering and Technology (SET) for Britain.

Dr Lawrence's research, which builds on earlier studies she carried out with Dr Simon Luckman in the Faculty of Life Sciences, hopes to understand how body weight is regulated and what happens when these processes go wrong.

"Our body weight is dependent on the balance between how much we eat and the speed of our metabolism, which are both controlled by the brain," explained Dr Lawrence.

events in the brain that lead to severe and uncontrolled changes in body weight in diseases like obesity and anorexia and identifying ways in which these changes could be prevented."

A chemical in the brain called galanin has long been known to increase appetite but Dr Lawrence has shown that a similar molecule – another neuropeptide known as GALP – can also induce hunger.

Until now, both galanin and GALP – short for galanin-like peptide – were thought to act in the same way. But Dr Lawrence's research has revealed that, while both chemicals produce short-term increases in appetite, over a longer period of time GALP increases metabolic rate and actually reduces appetite resulting in overall weight loss.

"The findings are significant because drugs that could mimic the effects of GALP could be used to treat obesity. Conversely, if we could stop GALP working in the brain we have potential therapies

for weight-loss conditions like anorexia and the muscle wasting brought about by diseases like cancer and Aids.

"Severe weight gain and weight loss in humans present massive worldwide medical and social problems and so have a major economic impact. But despite intense research efforts there are still no effective treatments for these disorders.

"My research aims to identify the mechanisms involved in severe changes in body weight and hopefully lead to new ways of treating these conditions through the possible development of drugs by the pharmaceutical industry."

Other University of Manchester researchers presenting their work at the House of Commons event were Antoon Goderis (Computer Science), Andrea Murray (Physics) and Tomos Williams (School of Medicine).

Herb could stop hot flushes

Researchers in the School of Nursing, Midwifery and Social Work are testing whether a common garden herb could stop the severe hot flushes that besiege breast cancer patients on hormone treatment.

Professor Alex Molassiotis says the herb, a member of the mint family, has traditionally been used by Mediterranean women undergoing the menopause. However, as the team is carrying out a double-blind trial wherein neither patient nor doctor is allowed to know who is taking the herb and who a placebo, it cannot be named at present.

The patients are being given hormone treatment to lower oestrogen and progesterone levels, as these affect the growth of some breast cancer cells. This can lead to early menopause or a return to its symptoms, which include anxiety, dry skin, bone-thinning and up to 30 hot flushes a day.

Sufferers often have to change their clothes three or four times a night, but as Hormone Replacement Therapy (HRT) would increase their hormone levels again they are usually advised to cut out tea, coffee and nicotine and try alternative remedies or a certain type of anti-depressant.

Alex said: "Hopefully this herbal remedy will be simpler and cheaper to take as well as more effective; improving the lives of women who need all their energy to fight the disease."

170 volunteers are needed for the trial, half of whom will take the herb in pill form and the other half a placebo. Only breast cancer patients who are receiving hormone treatments for their cancer and experience at least one hot flush a day (of moderate or above severity) for at least a month are needed. The treatment lasts three months and the team will assess volunteers' hot flushes four times over six months from the start the trial using questionnaires and a blood sample.

To find out more please contact Dr Barbara Potrata on 0161 446 8550 or barbara.potrata@christie-tr.nwest.nhs.uk.

Chorlton scheme bids to turn around declining high streets

Proposals to protect the longevity of one of Manchester's best loved town centres against the dominance of supermarkets and shopping malls were unveiled last month.

A group of Town and Country Planning Masters students have teamed up with Chorlton Civic Society to tackle what they see as the decline of modern high streets.

The team of seven from The University of Manchester's School of Environment and Development spent two months researching shops and services at the town known as the "Islington of the North".

After consultation with the local community, the Civic Society will put the ideas to the City Council.

Student spokesman Bob Phillips said: "We accept that the large supermarkets and Trafford Centres of this world are here to stay. But what we have to do is to re-engineer the mix of local facilities so that places like Chorlton can maintain their individualised character. We hope that our proposals will attract cafes, bars, specialist food shops and avoid the boring, characterless high streets which are blighting many of our urban centres.

"Final recommendations have yet to be made, so this is a good time for local residents and

interested parties to come along and see some of our ideas and to make their comments known.

"As students we feel it's extremely important to bring the benefit of our knowledge to the community. It's part of what a university is all about."

Civic Society secretary Phil Robinson said: "This joint initiative is a result of local people wanting to ensure that Chorlton remains a great place in which to live and to work.

"Major changes in the planning process are in the pipeline and bottom-up projects like this should be seen as a way of helping the city council make development decisions that are in the best interests of all in the community."



Research in the News

- Astronomers hope an exploding star will reveal secrets behind how the universe grows. Dr Tim O'Brien from Jodrell Bank Observatory says information collected about the nova, which is still being revealed weeks after it was spotted exploding, has so far been phenomenal. This story was reported in the *Independent* and several regional daily newspapers.
- People who suffer severe chest pain not caused by heart problems could have their symptoms eased with hypnotherapy. Around one in three people with chest pain have no apparent cause. The team, led by Professor Peter Whorwell, found that 80 per cent of patients felt better after hypnotherapy sessions. This story was reported in the *Daily Express*.
- Film audiences are getting better at spotting flaws of logic and production companies have woken up to the importance of getting the science right. Dr David Kirby, a lecturer in science communication from the Faculty of Life Sciences, has studied the role of the science consultant and says that film audiences are becoming more savvy. This story was reported in *The Guardian*.
- Scientists met at The University of Manchester for a major conference about maggots. The three-day event was organised by Dr Matthew Cobb a lecturer in animal behaviour from the Faculty of Life Sciences. He said that there were major scientific benefits to be gained from studying maggots. This story was reported on *BBC news online* and in the *Manchester Evening News* and *Manchester Metro News*.
- Stockings that may help to prevent DVT have been developed by Dr Tilak Dias, Head of the William Lee Innovation Centre. The system, known as Scan2Knit, consists of made to measure compression stockings that could help air travellers worried about deep vein thromboses. This story was reported in the *Manchester Evening News* as well as the *Metro News*, *The Engineer* and the *Washington Times*.
- Dr Michelle Harvie, from Withington Hospital, has written a book on the impact of nutrition on breast cancer, as figures show that only five per cent of breast cancer cases are hereditary and more than 90 per cent are due to lifestyle. This story was reported in *The Daily Mail*.
- Every year, more than 100 British men kill female partners or ex-partners. Professors Rebecca and Russell Dobash from the School of Law have studied case files and interviewed jailed murderers looking for reasons why men kill their partners, and their findings suggest that they are less likely to have a history of crime, but are especially likely to have a history of assaulting women. This story was reported in *New Scientist*.

News in brief

Fate of Earth's oceans revealed

Scientists at the University have uncovered the first evidence of seawater deep inside the Earth shedding new light on the fate of the planet's oceans, according to research published in *Nature*.

For the first time, scientists here have positively identified seawater in volcanic gas samples originating from the Earth's mantle - the region just below the crust and extending all the way down to the core - supporting the theory that seawater is subducted deep into the Earth and enabling them to test this theory further.

Professor Chris Ballentine and Dr Greg Holland of the University's School of Earth and Atmospheric and Environmental Sciences have also revealed that up to 10% of the Earth's oceans have been absorbed deep into the Earth since its formation.

Professor Ballentine said: "We can show that up to 10% of the Earth's oceans have been absorbed into the planet since formation. This accounts for about half of the water in the deep earth, the remainder of which was trapped when the Earth first formed. This work, for the first time, quantifies the 'geological water cycle'."

The study, funded by the Natural Environment Research Council, is also the first to establish the precise composition of the noble gases present in the Earth's mantle. In addition to identifying seawater the noble gases have provided a cornerstone for understanding the very origin of gases and water in our planet.

Grants and Contracts

- PSSRU (The Personal Social Services Research Unit) at the University of Manchester led by Professor David Challis has been awarded a grant of £749,000 by the Department of Health to evaluate the effectiveness and cost-effectiveness of individual budgets to support the long term care of vulnerable people. This is a new initiative announced in the recent Government White Paper on community health and social care services. The grant is jointly held with the London School of Economics, Kings College London, the University of York and the University of Kent.
- Paul Clarkson and Professor David Challis have been awarded £276,506 by the ESRC (Economic and Social Research Council) for a study entitled: 'The Design and Use of Local Metrics to Evaluate Performance: A Comparative Analysis of Social Care Organisations'. The study will be undertaken in England and Northern Ireland with some additional comparative work in Japan.

Centre for aircraft design takes off

The Northwest Composite Centre (NWCC) was officially launched on 12 May marking a new era in lightweight aircraft design.

The new £2.1m centre for aerospace composite design and manufacture will carry out cutting-edge research into composite materials which will be used to construct lighter, more fuel efficient aircraft.

The opening was marked by a special event held at the Manchester Conference Centre attended by delegates from aerospace and academia. Executive Director Phil Withers delivered a keynote speech outlining the centre's aspirations before declaring the NWCC officially 'open for business.'



Vice-President and Dean from the Faculty of Engineering and Physical Sciences, Professor John Perkins with Professor Mark Tuttle, University of Washington and Steve Broomhead, NWDA.

The event closed with the signing of a memorandum of understanding formalising the newly established trans-Atlantic partnership between The University of Manchester and The University of Washington (Seattle) to work towards the development of new composite technologies and materials.

Researchers at the Centre will look at new ways of rapidly and economically manufacturing composite materials (eg. plastics and carbon fibres fused together), which are as strong as steel, yet half the weight of aluminium.

The NWCC will be one of only four centres in the world developing a revolutionary new technology known as 'Quickstep', which enables large composite parts to be rapidly manufactured to aerospace standards.

The NWCC is funded by the Northwest Regional Development Agency (NWDA) through the Northwest Science Fund and is a joint collaboration between the universities of Manchester, Bolton, Lancaster and Liverpool.

Steven Broomhead, NWDA Chief Executive, said: "The NWDA is pleased to have been able to provide funding to the University of Manchester to help establish a regional centre of excellence in composite materials. Linking into a national network of similar centres, it will ensure the Northwest remains at the forefront of this type of research and help pioneer world-class composite processing for commercial exploitation."

Manchester pioneering breast cancer research

Two scientists from this University have won funding from leading research charity Breast Cancer Campaign to carry out pioneering research.

Their research will look at one of the major challenges in breast cancer treatment- dealing with breast cancer that has spread to other organs in the body. Both these grants are looking at different mechanisms which are involved in this process and could lead to more effective treatments.

Dr Andrew Gilmore has been awarded a grant of £146,031 to examine in more detail a process called anoikis, where the body ambushes and kills roving cells which have gone AWOL and are moving around the body without permission; like breast cancer cells that spread from the breast to form

tumours in other areas in the body.

Dr Gilmore says, "Understanding more about how the body's natural defences work, and why breast cancer cells can avoid them will help to develop new drugs, which can kill invasive cells that have become resistant to standard treatment."

Dr Keith Brennan has been awarded a grant of £142,827 from the Charity. His research could finally uncover how a group of proteins called Notch, protect breast cancer cells from dying.

A previous grant from Campaign gave Dr Brennan the opportunity to discover that Notch proteins are found in higher than normal levels in breast cancer cells. These proteins seem to protect the cells from being killed by the body's natural defence mechanism, and

also by anti-cancer drugs like chemotherapy. As a result these breast cancer cells are able to spread to other areas of the body and form new tumours.

Dr Brennan says, "Notch proteins appear to shield breast cancer cells from the body's natural defences and also from being destroyed by chemotherapy. This research will help to uncover exactly how Notch proteins have this effect, and whether inhibiting the action of these proteins may be one way of making chemotherapy treatments more effective."

Mr Tony Lloyd MP says, "Breast Cancer Campaign funds only top quality breast cancer research so I am delighted that the Charity has awarded funding to two scientists at The University of Manchester."



High flyers get ACTIVE down under

A project high in the sky above Darwin Australia is the first to have examined important aspects of the huge tropical thunderstorms that form in the region.

British scientists, led by The University of Manchester, found that air flowing into the storms can vary enormously in the amount of pollution it contains. The researchers are evaluating what effect this has on the storms and the properties of the clouds and air flowing from them at high altitudes. This affects how the atmosphere interacts with incoming sunlight, which in turn affects the climate.

As part of the Natural Environment Research Council's (NERC) "Aerosol & Chemical Transport in Tropical Convection" (ACTIVE) project, the British

research team, which includes teams from Cambridge and York Universities, used NERC's Dornier aircraft to fly 30 missions into around tropical storm clouds, especially and the "Hector" storm cell which formed over the Tiwi islands north of Darwin. The Dornier was equipped with a range of high-tech probes to measure the aerosol particles and gases that were being drawn into the tropical storms.

Aerosols include materials like desert dust, sea salt and other organic "biomass" materials - which are drawn up into the clouds from the earth's surface. These particles influence the physics of the clouds and can have a dramatic effect on the climate process.

A total of seven aircraft and teams from the US Atmospheric

Radiation Measurement (ARM) program, and the Australian Bureau of Meteorology (BoM), and the European SCOUT consortium also flew missions from Darwin as part of the international study.

Professor Geraint Vaughan of The University of Manchester who led the ACTIVE programme said: "ACTIVE was the first experiment to investigate the particle transport process in the Micronesian region, which is critical to the global climate system. Large variations in air composition at low levels were found during the different phases of the campaign; these will allow us to determine how sensitive the upper tropospheric composition is to convective transport processes."

News in brief

No evidence of demise of the family meal

A THREE year research project by a team of sociologists at this University has shown that contrary to popular belief, families are likely to eat together in much the same way as they would have done almost 30 years ago.

By comparing records of more than 12,000 people between 1975 and 2000, the figures showed that in 1975, 87% of meals at home were eaten in less than 30 minutes, 12% lasted 30 to 60 minutes and 1% lasted more than 60 minutes.

In 2000, 83% of meals at home were eaten in less than 30 minutes, 15 per cent lasted 30 to 60 minutes and 2 per cent lasted more than 60 minutes. Despite dropping, on average, one meal eaten at home per week, people spend as much time over each meal at home in 2000 as they did 25 years previously.

However, the positive news does not extend to the dinner party, which the researchers say appears not as popular as it once was.

One of the investigators Dr Dale Southerton, said: "Much contemporary research points to the decline of the family meal. But our evidence says that we are just as likely to sit down to eat with our families as we would have done 30 years ago."

Insulin research builds on Nobel Laureate's work

Scientists have seen for the first time a key step in the complex molecular processes whereby pancreas cells release insulin into the bloodstream.

The breakthrough, which builds on earlier Nobel-Prize winning research, could have implications for the treatment of diabetes which is caused when not enough insulin is released by the pancreas to meet the body's demands.

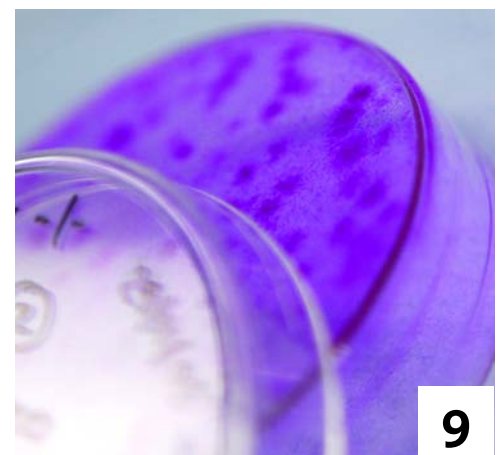
The team of scientists from The University of Manchester, Charite University in Berlin, and the University of Heidelberg say the findings could also be important in understanding other diseases, as hormone and protein secretion is an important function of all types of cell.

"Large numbers of proteins, including hormones

such as insulin, are constantly being produced by our cells and carry out essential functions in the body," explained Dr Martin Pool, based in Manchester's Faculty of Life Sciences.

"In order for them to work, these proteins have to be transported to the right place and it is this process - of fundamental importance to all living organisms - that we are interested in."

Dr Pool's work - to be published in the highly respected journal *Science* - is based on a 30-year-old hypothesis of how proteins are transported across cell membranes and directed to their correct location. That hypothesis was devised and proven by Dr Gunter Blobel and led him to receiving the Nobel Prize in 1999.



Flagship online course relaunch



One of the University's Flagship online courses is being relaunched under a new name and with additional course units. Four years ago the online MPHe (Masters in Public Health Evidence) started here in Manchester and was the first fully online Public Health course in the UK. This September it is being relaunched as an MPH (Master of Public Health) and an MRes (Master of Research), both with optional streams in Primary Care.

The course can be accessed worldwide by anyone with good online facilities. Four technical specialists support the WebCT learning environment and work closely with tutors from the University and the NHS to deliver the online material. Within this innovative learning environment new methods of receiving the information are constantly being developed. Students already participate in online discussions, and the use of virtual classrooms where students can share information and experiences with tutors and each other is being piloted. In the future teaching will also be supplemented with podcasts.

Katie Reed, (Course Leader) said: To be able to study online in this way is perfect for people who are working part time and trying to maintain their work-life balance, and for those who are geographically isolated but who have good internet access. We would like to emphasise that this isn't distance learning, but an online course. All the required material is available from the world wide web with links to online journals and direct access to the John Rylands University Library, one of the best e-learning library resources in the UK'.

The programme enables students to pick out individual modules for personal and professional development, which can then be accredited towards the MPH or MRes. New modules in Qualitative Research Methods enable both professionals and research students to develop their research skills in an online environment.

www.medicine.manchester.ac.uk/graduate/mph/

Students as Partners Celebration Evening



The Manchester Altitude Research Society - one of the winning teams

300 students and staff attended a celebration evening to highlight the work of 'Students as Partners' last month. The event recognised the involvement of more than 1000 students' contributions to student-centred initiatives including Peer Support and the Student Team Working Awards

This annual event sponsored by PricewaterhouseCoopers (PwC), now in its eighth year, draws together strands of activity that actively seek to 'engage students as partners in their learning'. Representatives from the 44 Peer Support schemes: Peer Mentoring and Peer Assisted Study Sessions (PASS), received certificates in recognition of their dedication and commitment to their roles.

Peer Mentoring offers social and pastoral support to, predominantly, first-year students aiding their transition into Higher Education. PASS is facilitated group learning by higher year students that assist first-years in developing study and learning strategies. Many PASS Leaders and Peer Mentors were also presented with certificates from PwC following completion of their 'Personal Development and Effectiveness Training' course.

Student from three faculties: Engineering and Physical Sciences, Humanities and Life Sciences were presented with certificates recognising their

successful completion of the 'Personal Development for Successful Learning' (PDSL) course run by Learning Development. Students who completed PDSL last year were acknowledged for acting as student facilitators for the 'Manchester Access Programme' (MAP) this year. This is an exciting new initiative with Widening Participation.

The final presentations of the evening were reserved for the results of the Student Team Working Awards. Over 100 teams submitted high quality applications that highlighted their reflections of team-working in Undergraduate, Postgraduate or mixed teams engaging in curricular and extra-curricular activities. A special award was made to 'UMRFC's Committee - In search of excellence'. Cash prizes of up to £500 were awarded to the winners and runners up that included 'Design Enterprise - Memoirs of...' (Textiles), 'MARS (Manchester Altitude Research Society)' and 'The KIDADE Gift Catalogue'.

Dentistry programme 'brushes up' on new skills

The School of Dentistry will launch an innovative new Bachelor of Dental Surgery (BDS) programme in September, entitled the Manchester Dental Programme. It has been designed to produce professional graduates who have the skills, knowledge and experience to cope with the ever-changing demands on the profession.

Basic science will be taught in parallel with clinical experience

from Year One using an enquiry-based approach, with students placed in teams to reflect the working structure of the profession.

The School is the first to incorporate all these features into its BDS curriculum, based on an evaluation of the requirements of both future patients and employers and a commitment to enhancing the student experience. The new

Programme aims to create dentists who can rise to the challenges of the ever-changing demands of the profession.

Professor of Dental Education in the School Iain Mackie said, "This approach builds on the University's experience and expertise in enquiry-based learning, crystallised in the recent launch of a dedicated Centre for Excellence in Enquiry-based Learning."

Manchester secures £4m tech-boost for UK textiles

Dr Tilak Dias

The University's William Lee Innovation Centre (WLIC) has secured £4m to launch a new project aimed at helping the UK textiles industry regain its competitive edge over foreign markets.

The Knowledge 4 Innovation (K4I) project will seek to address the structural and economic impact of high-volume production overseas through technology and innovation.

K4I will focus on equipping SMEs with the skills and knowledge needed to help them utilise new technologies. It will also seek to develop a host of niche textile technologies for use in the medical, automotive and sports industries.

Dr Tilak Dias, Head of the WLIC (pictured), said: "Textiles businesses now need to focus on functionality and innovation, rather than price in order to compete. This project will seek to instil the

knowledge and skills SMEs need to seize new opportunities in global markets through technology and innovation."

Work has already begun on a number of projects which include the development of electronic fabrics and a pioneering system for creating made to measure bandages to treat venous ulcers.

K4I will also develop training micro-modules and a digital web portal of multidisciplinary material which will act as a knowledge bank for the SME textiles companies. The project will also support textile SMEs by mentoring them through the technology innovation process.

Venture Further

In Life Technologies have won 'Venture Further, the business creation stage of the first University-wide Venture competition. In Life propose a new technological platform called a Bio-Circuit, designed to force micro-organisms to work together in order to improve biotransformation processes. The first application of this revolutionary new technology will be to optimise production of a novel antibiotic for infections such as MRSA. Second prize went to Origin-Signed and third prize went to Student-City.

The competition has given students across the whole University the chance to turn their ideas into reality and learn about the processes of new venture creation. It has been equally popular with undergraduates and postgraduates across all four faculties proving that enterprising students can come from any academic discipline. President and Vice-Chancellor of the University.

Professor Alan Gilbert said, "The University is committed to engaging in activities like the Venture Competition. Innovative ways for our students to develop entrepreneurial skills and interests enrich the educational experience available in Manchester, and have obvious potential benefits for the economic development of the North West."



Klaus's Creativity

As a schoolboy in Dortmund, Klaus Müller-Dethlefs was interested in research – and won a national young-researchers' competition in Northrhine Westphalia in Chemistry. As a result, he got a grant to go to university in Göttingen to study Chemistry and Physics.

He thus achieved a family ambition: "My father was an engineer, but the family couldn't afford to send him to university. He was determined that I should go." So, the writing was on the wall early for the man who was, in his early thirties, in 1984, to famously invent the ZEKE (Zero Electron Kinetic Energy) photoelectron method – an internationally adopted high-resolution method for measuring energy states of ions.

As Director of the Photon Science Institute (PSI), Professor Müller-Dethlefs is full of hope and ambition, and he clearly intends to foster a culture of innovation, determination and enthusiasm. "We have an enormous opportunity to expand research into new interdisciplinary areas," he says. "The Institute is creating knowledge from fundamental and applied research. We are providing a critical mass which is very stimulating and which allows members to fulfill their scholarly potential. The future could not be brighter and I am here at Manchester to be part of it."

His two-fold ambition is to develop a leading international research centre of excellence and to create innovation by transferring knowledge into industry. He readily acknowledges that to be successful the Institute cannot just be about fundamental research, it has to have a large component of applied research. "On one hand we are driving the hot topics of fundamental science but we are also actively engaging with innovative industries to fully exploit our knowledge capital."

His enthusiasm is infectious. He looks forward to taking on many big challenges and knows that the Institute has the expertise, knowledge and resources to apply a vast arsenal of optical and spectroscopic methods to scientific problems faced by the life, medical, atmospheric, physical and engineering sciences. These range from monitoring skin cancers using optical coherence tomography, to measuring the blood sugar of a diabetes patient in real time using Raman spectroscopy,

to determining the authenticity of museum artifacts such as manuscripts.

Access to state-of-the-art laser and optical technologies open up a very wide range of applications – in medicine, biosciences, engineering, environmental and physical sciences. "The list of potential applications for photon science is endless", he says, "The Institute provides a unique opportunity for us to cross traditional boundaries of science and to move those disciplines forward."

Müller-Dethlefs' training as a spectroscopist goes back to his undergraduate days at Göttingen, where his Chemiediplomarbeit, concerned with optical combustion diagnostics and spectroscopy, won him a First. "I was always curious," he says. "As a boy, I had a great interest in anything to do with mathematics and the nature of things. As an undergraduate, I developed a keen interest in laser spectroscopy and laser optical measurements, with a view at that time to applying them to combustion systems. Today my research is driven by the desire to better understand molecular clusters – it is fascinating to investigate how everything from macroscopic entities like liquids and bio-molecular structures such as proteins and DNA are held together by non-covalent interactions."

In 1974, he learned of the work at Imperial College, London, of Professor Felix Weinberg, an international authority on soot formation, a complex process. Klaus went to do his PhD under Weinberg and developed a light scattering and fluorescence measurement technique to study soot formation in flames. "It was very exciting," he says. "Laser investigation was developing and I also had a high interest in molecular spectroscopy. I was also very stimulated by lengthy discussions with the late Professor AG Gaydon, whose book 'Spectroscopy of Flames' is seminal."

Klaus was then awarded a grant from the Deutsche Forschungsgemeinschaft for postdoc



research in collaboration with Dr Jean-Pierre Taran at the Office Nationale d'Etudes et de Recherches Aérospatiales (ONERA) in France.

His growing reputation was such that in 1980 he was given the chance to set up his own research group at the Technische Universität in Munich, an institution at the forefront of molecular spectroscopy and dynamics. It was there, in 1984, he made the big ZEKE discovery.

The next significant development for the ZEKE technique occurred in 1988. Klaus' research led him to resolve the few remaining questions surrounding his spectroscopic method, thus opening the door for its application to a much broader range of science. Consequently other research groups including those at Oxford and Berkeley, USA quickly adopted ZEKE spectroscopy and today over 50 laboratories use this technique in their research.

In 1991 he chaired the first European Research Conference on Highly Excited States, featuring ZEKE spectroscopy, and in 1994 received the prestigious Rudolf-Kaiser-Preis for Experimental Physics in recognition of his work.

During 1995 he was appointed to the Chair of Physical Chemistry at York and in 2001 he

received the first Herzberg Memorial Prize and Fellowship of the National Research Council of Canada. In the same year he established the Centre for Laser Spectroscopy and Photochemistry at York, which officially opened in 2003. "The whole experience at York has been invaluable in providing me with a sound understanding of the logistics that face you when establishing a centre of excellence."

Most recently, he has been honoured with the 2006/7 Visiting Miller Research Professorship at the University of California, Berkeley. "I am delighted to have the opportunity to work with other eminent scientists on collaborative research interactions in an environment that encourages creative thought in the conduct of research and investigation in the field of pure science," he says.

Now comes the new challenge. "Helping to bring this University to the international pre-eminence it deserves is hugely exciting," he says. "It is inspiring to know that photon science will light the way for future international research across so many scientific disciplines."

Name

Professor Klaus Müller-Dethlefs

Position

Director of The Photon Science Institute

Joint Chair of Physics and Chemistry,
The University of Manchester

Education

- 1968-75 Undergraduate Studies in Physics and Chemistry Georgia-Augusta Universität Göttingen.
- 1975 Diplom-Chemiker degree, Diplomarbeit in Physical Chemistry, Georgia-Augusta Universität Göttingen.
- 1975-79 Research for PhD Thesis, Imperial College of Science and Technology, University of London, UK.
- 1979-1980 Postdoctoral Fellowship, The Deutsche Forschungsgemeinschaft Office National de Etudes et de Recherches Aérospatiales (ONERA), Châtillon, France.

Career History

- 1980 Estab 1980 Establishment of own research group at the Institut für Physikalische und Theoretische Chemie, Technische Universität München.
- 1984 Invention of the ZEKE spectroscopy method.
- 1985 Visiting Professor at the Laboratoire Spectronomie Moléculaire et Instrumentation Laser (SMIL), Université de Bourgogne, Dijon, France.
- 199 Habilitation, Department of Chemistry, Biology and Earth Sciences, Technische Universität München.
- 1992 Visiting Professor at the Laboratoire Aimé Cotton, CNRS II, Orsay, France.
- 1994 Rudolf-Kaiser-Prize for Experimental Physics.
- 1995 Appointed Chair of Physical Chemistry at York.
- 1998 Visiting Professor at the Institute of Atomic and Molecular Sciences (IAMS), Taipei, Taiwan.
- 1999 Visiting Professor and External Adviser to the Institute of Molecular Sciences (IMS), Okazaki, Japan.
- 2000 Royal Society of Chemistry Tilden Medalist and Lecturer.
- 2001 First Herzberg Memorial Prize Laureate and Fellowship of the National Council of Canada.
- 2001 Director of The Centre for Laser Spectroscopy and Photochemistry, The University of York.
- 2004 - Present Director of The Photon Science Institute, The University of Manchester.
- 2006/7 Visiting Miller Professorship at the University of California Berkeley.

Inner city schools send young elite on road to success

An innovative programme to place the nation's top students in inner city schools is to start in the North West this year.

The Government funded scheme is to be managed by The University of Manchester for the UK 'Teach First' charity, which was in part inspired by the successful 'Teach for America' programme.

Sixty students from across the country are to spend a minimum of two years teaching in challenging schools in socio-economically disadvantaged neighbourhoods across Greater Manchester.

Many are expected to remain as teachers although others will be recruited to high flying corporate posts.

The chief executives, captains of industry and business leaders of the future will gain valuable leadership experience during their time in schools which will enhance their prospects of long term career success.

In the first Teach First programme outside London, the students will attend a six-week summer school at the University before starting on-the-job training in the autumn.

Senior lecturer in Education and Teach First Director Dave Hall said: "Teach First hopes to provide a better education for pupils at inner city secondary schools which often face a range of difficulties associated with poverty and long-term unemployment.

"A rigorous selection and assessment process ensures that participants are among the top three percent of UK graduates.

"That way, they will be able to succeed both in the classroom as well as in their future careers."

He added: "In the main, students will have degrees in subjects such as mathematics, English, science and modern languages - shortage subjects where teachers are most needed.

"The participants will receive regular visits from University tutors during the first year of their placement and will also be supported with robust in-school subject and professional mentoring."



President and Vice Chancellor Professor Alan Gilbert; Julia Rogers from The Co-operative group; Jim Battle from Manchester City Council and the MLP Team with the award-winning MLP students.

Student leaders receive first-ever Manchester Leadership Award

STUDENTS who successfully completed the inaugural Manchester Leadership Programme (MLP) recently received the Manchester Leadership Award at a celebratory event held at The Whitworth Hall. The Award was given to students who had completed both the Leadership in Action unit and the 60 hours community work which form the MLP.

The event, opened by President and Vice-Chancellor, Professor Alan Gilbert, was also attended by University staff, business, community and civic representatives. Professor Gilbert said: "I believe that the MLP can become one of the defining characteristics of our graduates and become part of a value-adding process that will make our graduates more sought-after than ever by employers and more informed citizens of the world, helping communities to build sustainable, civilized societies. The MLP will become a distinguishing feature of this University."

Professor Gilbert also paid tribute to the many staff across the University who had contributed to the successful launch of the MLP.

The MLP has the backing of Manchester City Council, Deputy Leader Jim Battle said: "The muscle this University brings to the city is something we

want to engage with. It's vital there is a strong connection between the people who study in this city and who live in this city. The MLP gives students the opportunity to play a part and contribute to how this city is shaped."

The highlight of the event was a film featuring MLP students talking about their experiences on the programme. Benjamin Lambert, a student of Middle Eastern & Modern European Languages, who volunteered at an HIV/Aids charity in Ardwick, said: "The MLP has added to my university life in a really beneficial way. It's given me different perspectives, not just on topics covered in the unit, but on life in general."

Seventy-five students took part in this year's MLP, with 300 students set to take part in 2006/07. Further information, including the film of MLP students, is available online.



Open Day presents New Opportunities



THE University of Manchester has built more bridges with local communities following its first 'New Opportunities' employment and training open day.

The University opened its doors to encourage its neighbours to explore new employment and training opportunities.

Steve Grant, Assistant Director of Human Resources at the University, said: "The focus of the day was to give local people an insight into the opportunities the University can offer."

The Open Day consisted of workshops on interview techniques and advice on completing application forms and constructing CVs, as well as guided tours of the campus.

Steve added: "This was not a recruitment event but an opportunity to forge closer links with the communities neighbouring the campus some of which number amongst the most socially and economically disadvantaged parts of Manchester. The University is now the second largest employer in the city and yet there remains a lack of

awareness around its potential as an employer and training provider.

As part of the initiative, the University has developed a six-week 'Work Placement' programme which will give participants the opportunity to build upon existing, or gain new, work experience. The first 'interns' will arrive in the summer.

Steve Grant said: "As the second largest employer in the city we are well placed to further contribute to the prosperity of Manchester through the provision of opportunities of this kind. The objective is to give local people the opportunity to acquire skills and experience which will prepare them for the job market and help make them attractive to employers across sectors. We were particularly keen to provide opportunities for the people of Ardwick, Moss Side, Hulme, Rusholme and Longsight and this open day has helped to raise awareness of a range of options at the University."

The event received strong support from the *Manchester Evening News*, which provided free advertising space to promote the Open Day.

A Bigger Bang

The School of Chemistry's famous 'Flash Bang' show is now being delivered to a wider audience than ever, as Dr Sarah Heath has been invited to perform demonstrations in the region's primary schools.

Dr Heath has been actively involved in promoting Chemistry in the region's schools for a number of years. Most recently, she performed a demonstration at Burnley Football Club in front of more than 200 teenagers as part of a "Chemistry at Work" project organised by SETPOINT.

She has now received funding from Aimhigher: Chemistry, The Next Generation to take the demonstration to 7 to 9 year old children to complement the Key Stage 2 national curriculum topic of Solids, Liquids and Gases. To date, she has visited schools in Bolton, Barrow and Accrington and will shortly be visiting Bury, Stockport and Blackburn.

The 'Flash Bang' show has been taken to schools across the UK by a few stalwart members of Chemistry staff for many years. It is usually shown to older children and is intended to inspire future students to study science.

At the Information Society Technologies (IST) Conference and AGM hosted by the School of Chemistry last month more than 40 specialist, technical and managerial staff from schools, colleges and universities across the UK got together at Hulme Hall for the event "Technicians in Education; your Health, Safety and Professional Development".

The delegates were subjected to Dr Heath's 'Flash Bang' show and then asked to risk assess it. Given the undivided attention of a large group of technical and health and safety specialists we can now safely assume that we have the most controlled Flash Bang show in the UK!

Students step out in style for Christie Hospital

Students from The University of Manchester hit the catwalk to raise money for Christie Hospital on Wednesday, May 10th.

The fashion show, which was part of the University's first year Fashion and Textile Retailing course, aimed to raise up to £3,000 to create a new garden for cancer patients at the hospital.

140 students took part showcasing original designs and the latest trends from the high street. The show included eight themes including: Prairie, Dazzle, Bandstand and Balero Beat.

Proceeds from the event will go to the Alex Hall Memorial Fund and will be used to create a small garden next to the Alex Hall Room at the hospital.

The Alex Hall Room, designed by Changing Rooms designer Oliver Heath, is being created in memory of Christie patient Alex Hall who died after losing her long fight against cancer in 2003. The room will provide a haven for cancer patients to relax and unwind.

Fashion and Textile Lecturer Delia Vazquez, who organises the annual event, said: "As well as raising valuable funds for Christie's and the Alex Hall Memorial fund, the show teaches students about market trends and how quickly high street stores have to adapt to new fashions."

The fashion show contributes towards the final marks of first year of the BSc Fashion and Textile Retailing degree.



Dr Sarah Heath copes with a rapidly expanding mountain of foam as one of the demonstrations bursts into life

What's On



The Whitworth Art Gallery

DISPLAYS/COLLECTIONS

Clothing Culture: Dress in Egypt in the First Millennium AD to 10 Sept

The Object of Encounter: - Resonance and Wonder to February 2007

Cupid & Psyche 11 June to 8 Oct 2006

The Textile Gallery now open

TOURS AND EVENTS

Every Saturday at 2pm there is either an Exhibition Tour or an Eye-Opener Tour.

Whitworth Art Gallery,

Oxford Road, 0161 275 7450

Gallery Café 0161 275 7497

The café sells a selection of drinks and light meals.

Gallery Shop 0161 275 7498

The bookshop stocks a range of art and design books, cards and gifts.

Opening hours

Mon to Sat 10am - 5pm, Sun 2pm - 5pm

FREE Admission

Collection Exhibitions Archive Now Online

The Whitworth's online 'Collections Catalogue' now allows you to browse and search selected exhibitions held at the Gallery over the past 10 years. Follow the link from homepage at:

www.whitworth.manchester.ac.uk

Tabley House

Small conference and meeting rooms available year-round. Licensed for weddings and baby-naming ceremonies.

Tabley House,

Knutsford, Cheshire, WA16 0HB 01565 750151

email inquiries@tableyhouse.co.uk

www.tableyhouse.co.uk

Contact Theatre

Fri 23 June – Sat 8 Jul

Enchantment

Enchantment explores the impact of fairy tales on the emotional, moral and social development of children. Famous stories such as Hansel and Gretel are explored to reveal extraordinary insights into the dynamics affecting family life. In addition, several high schools will present the outcome of their work on a project, which investigates the rising phenomenon world-wide of child soldiers.

Contact, Oxford Road, Manchester

Tickets/Info: 0161 274 0600

For information on other events please visit our website

A limited number of tickets are available from just £4 on the day from the Ticket Office between 11am - 4pm daily.

www.contact-theatre.org

The Manchester Museum

SPECIAL EXHIBITIONS

JUNE BIG SATURDAY

Ceramics Day Sat 10 June 11am – 4pm

Meet contemporary ceramists while they demonstrate their work, listen to talks

Keeping It Together 17 June – 28 Aug

An exhibition including a comprehensive programme of displays, talks, tours and demonstrations showing how the Museum conserves the collections we look after for everyone for the future

Sankofa: Ceramic Tales from Africa until 2 July
Contemporary and historic ceramics providing a multi-sensory experience, including object handling.

African Ceramics: Transforming Traditions to 2 July
See how the rich and varied ceramic traditions of Africa have been adapted to new situations and new markets.

Helga Gamboa Thurs 8 June 6.30pm – 8pm

Ceramic artist from Angola talks about ceramic traditions in Africa.

By leading experts, take part in storytelling sessions with Ghanaian storyteller Miso'shi and listen to live music from Zimbabwean group, Silo. FREE

SPRING HALF-TERM EVENTS

Family events run during half term and school holidays as well as many Saturdays throughout the year. See brochure or website for information.

In Focus tours

Tours last 30 minutes, are free and commence at 1.30 pm and 3pm

Sankofa Sat 24 June

Conservation Wed 28 June

FUTURE EVENTS

Monday 14 – Fri 18 Aug 10.00 am – 3 pm

Manchester Museum Film School

With the Family Friendly Film Festival for children, aged 8 to 12, to write and make a short animated film about animals.

Booking: 0161-275 2630 £60

Prebooked Family Events (0161 275 2648)

Drop-in Family Events (£1 per child, unless otherwise stated. For group bookings please call 0161 275 2648. Children must be accompanied by an adult).

Manchester Museum,

Oxford Road, Manchester 0161 275 2634

Open: Tues-Sat 10 - 5pm; Sun-Mon (and Bank Holidays) 11- 4 pm. FREE Admission

www.museum.manchester.ac.uk

Chaplaincies

St Peter's House Chaplaincy
SUNDAY WORSHIP

10.00am Group Work

11.15am Morning Worship

6.30pm Evening Worship (term-time only)

FOYER 10am - 4pm

An area where students and staff can relax and meet friends. A tea/coffee machine is available. Chaplains also available Monday to Friday Floor B, Room B25, Renold Building 0161 200 2522 Precinct Centre 0161 275 2894 email: sph.reception@manchester.ac.uk

Avila House RC Chaplaincy

(next to the Holy Name Church)

Mass Times

Mon - Fri 1.05 pm (term-time only)

Oxford Road

0161 275 6999/273 1456

The Jewish Student Centre and Synagogue

Hillel House, Greenheys Lane.

0161 226 1139

rabbiiy@hotmail.com

www.rabbiiy.com

Courses for the Public

The Centre of Continuing Education (CCE) runs a large and varied programme of courses designed for adults studying part-time, whether for pleasure or personal/professional development. Most are open to beginners and no prior knowledge is assumed, unless stated. Concessions are available to staff and graduates of The University of Manchester. Brochures/application forms available.

CCE, 1st Floor, Humanities Devas Street

0161 275 3275

www.manchester.ac.uk/continuingeducation



Music and Drama at Manchester

Mon 5 June 1.10 pm Free

The University of Manchester Ensemble
Programme TBA, details from website.

Mon 5 June 7.30 pm Free

The University of Manchester Big Band
present bring their year to a close with an eclectic mix of Swing, Jazz, Latin and Funk.

Tues 6 June 1.10 pm Free

The University of Manchester String Orchestra
present a concert juxtaposing the baroque music of Bach and Handel with the twentieth century music of Schoenberg

Tuesday 6 June 7.30 pm Free

The University of Manchester Wind Orchestra
Last Night of the MUWO Proms
Concluding the 9th season with the very best of the traditional 'last night' celebrations and guest soloists, this concert shows off the versatility of the Orchestra as they prepare for their 10th anniversary and next concert tour.

Wed 7 June 7.30 pm Free

Ad Solem with Bray Ensemble

A concert of celebratory music, all of which was written for royal events. Ad Solem once again join forces with The Bray ensemble and guest soloists in a concert of Baroque masterpieces.

Thurs 8 June 7.30 pm Free

The University of Manchester Sinfonietta

In the final concert of Estival festival and the academic year, Sinfonietta present a light-hearted evening sure to get everyone into the holiday spirit.

Fri 23 to Mon 26 June

MANTIS and the Sonic Arts Network present
EXPO: THE ANNUAL SAN EXPOSITION

In conjunction with The University of Manchester and Cornerhouse.

The Martin Harris Centre for Music and Drama

The University of Manchester, Bridgeford Street,
Manchester M13 9PL
0161 275 8951/8950
email boxoffice@manchester.ac.uk

www.manchester.ac.uk/martinharriscentre

Burlington Society

The Society of Mature Students and Postgraduates in the Universities of Greater Manchester

Burlington Rooms, Schunck Building,
Burlington Street (next to JRUL)
0161 275 2392

www.burlington.man.ac.uk



Jodrell Bank

The facilities at Jodrell Bank are going through a period of redevelopment. The Visitors Centre currently has a café, an exhibition space and a 3D theatre open, and visitors can still explore the various trails and the natural habitats of the Arboretum's 35 acres with its 2000 species of trees and shrubs and National Collections.

Jodrell Bank Observatory

Macclesfield, Cheshire 01477 571339
www.jb.manchester.ac.uk

John Rylands Library

The John Rylands Special Collections Library, Deansgate, will be closed until 2006 for essential refurbishment and the construction of a new visitor and interpretative centre. Access to all the special collections is available through the main University Library on campus. A *Special Collections Reading Room* is open on Floor Purple Four, Monday to Friday 10am - 5.15pm and Saturdays 10am-1pm. Readers may find it helpful to contact us in advance on 0161 275 3764. Further information can be found on our website
www.rylibweb.manchester.ac.uk/spcoll/

International Society

Sat 10 & Sun 11 June

Overnight Trip to Bath and Stonehenge

Sat 10 June

Alton Towers

Sat 18 June

Peak District visiting Matlock Bath and Bakewell

Sat 24 June

Scarborough

Sun 25 June

Yorkshire Dales visiting Ingleton Waterfalls Walk and White Scar Cave

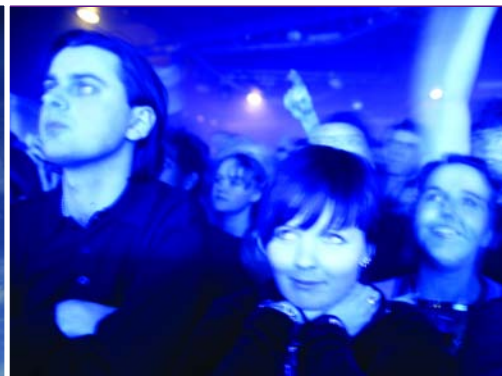
Sat 1 July

Formby and Southport

International Society

327 Oxford Road (next to Krobar)
0161 275 4959
Open: Mon-Fri 9.30am - 5pm

www.internationalsociety.org.uk



Gig Guide Manchester Academy

Tues 6 June

Twisted Sister

Fri 9 June

Zero 7

Sun 11 June

Live

Mon 12 June

Nightmare of You

Sun 18 June

The Feeling

Fri 23 June

Adequate 7

Missy Higgins

Sat 24 June

The Alarm

Students' Union

Oxford Road, Manchester, M13 9PL

Tickets from:

Piccadilly Box Office @ easy Internet Cafe

(c/c) 0871 2200260

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

Students' Union 0161 275 2930

www.manchesteracademy.net

Seminar Listings

Seminar listings are now available online at www.manchester.ac.uk/seminars, and members of University staff will be receiving a weekly email bulletin which includes a link to this page. To publicise seminars please submit details to seminars@manchester.ac.uk

Hippest show in town

One of the most celebrated surgical breakthroughs – the hip replacement operation – is the focus of a fascinating exhibition at the Royal College of Surgeons in London.

One of the most celebrated surgical breakthroughs – the hip replacement operation – is the focus of a fascinating exhibition at the Royal College of Surgeons in London.

'Hip Histories', produced by the Centre for the History of Science, Technology and Medicine at The University of Manchester, explores the stories of some of the patients, nurses, surgeons, engineers and manufacturers involved in the development of this life-changing procedure.

"The total hip replacement (THR) operation has been seen as a landmark in 20th-century surgery and is now one of the most performed elective surgical procedures in the world," said Dr Francis Neary, the exhibition's curator.

"Since the early 1960s it has played an important role in alleviating pain and restoring mobility to millions of arthritis sufferers. It became a flagship operation, raising the status of British orthopaedic surgery.

"Its development was associated with innovation in materials, instruments and operative procedures – many of which have since been adapted to treat other joints and applied across a range of surgical specialties."

The success of THR was not the result of one single breakthrough - its origins lie in the surgical replacement of half the joint, known as hemiarthroplasties, developed in Europe and the United States between 1920 and 1950.

But the complete replacement of the hip joint was primarily a British innovation developed at specialist centres in Norwich, Stanmore, Redhill, Exeter and Wrightington, near Wigan.

"Each of these centres made an important contribution to THR but the exhibition focuses on the advances made at Wrightington Hospital, where the first successful operation was developed by Professor Sir John Charnley and his team," said Dr Neary.

"We have used objects, video and the personal accounts of innovators to reconstruct the story of the development of hip replacement from a variety of perspectives.

"This will be a unique opportunity to see how an important surgical innovation was developed through meticulous scientific research with a low budget in the early days of the NHS."

Hip Histories is currently on show until July in the Qvist Gallery of the recently refurbished Hunterian Museum at the Royal College of Surgeons of England in London.

A larger, permanent Patient Information Centre exhibition at Wrightington Hospital near Wigan will open in early May and will be followed by a Museum of Joint Replacement, opening in the summer.



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Looking Back

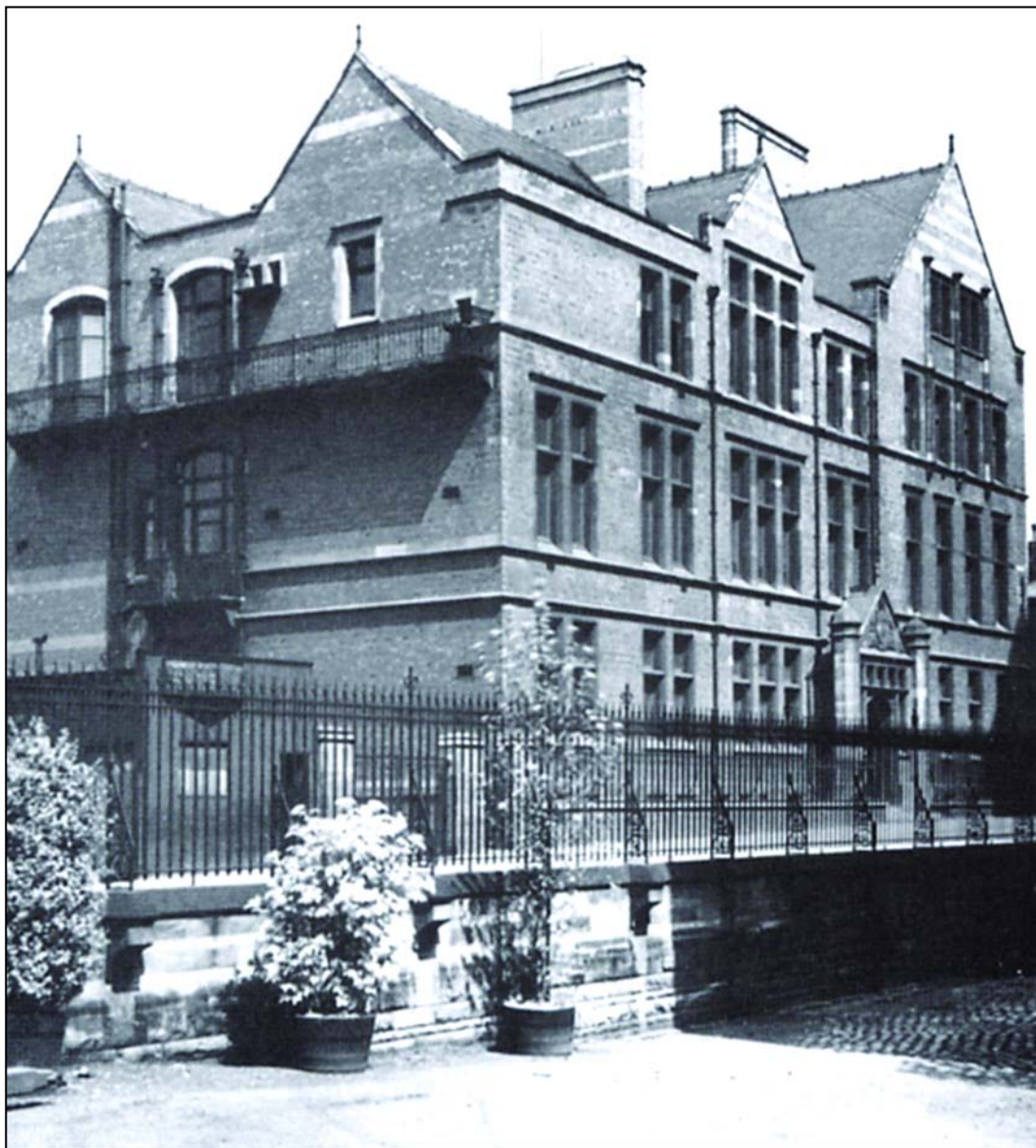
Coupland I Building

The newly-refurbished Coupland I Building, which is now home to the Student Recruitment, Admissions and Widening Participation Division, is to be re-named the Rutherford building after its most famous previous occupant

Other famous names who worked in the building include Geiger, Niels Bohr, Bragg, Chadwick and computer pioneers Williams and Kilburn. A list of such famous names makes it astonishing to think, that this sedate Victorian building has housed some of the greatest scientific minds of the 20th century.

Two anonymous gifts totalling £15,000 provided the means for the new laboratories to be built. The state-of-the-art facility that opened in 1901 owed a lot to the shrewdness of Arthur Schuster and the architect J W Beaumont, who had undertaken a European tour to see what their peers has at their disposal. The crowning glory of the new building was a domed observatory with a 10 inch refracting telescope, which must have struggled with the murky atmosphere of the time. The octagonal base of this structure is now used to keep bees, the dome having long since been removed. When this photograph was taken, the 1908 Museum extension and the end piece of the John Owens building had yet to be built.

Rutherford's old laboratory on the ground floor, complete with the bench where he performed his famous experiment, is being refurbished as a meeting room and permanent exhibition/memorial to the famous scientist.



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