

Loughborough offers the best value for money research in UK

Loughborough University offers the best value for money research in the country, according to the latest performance indicators for higher education institutions published by the Higher Education Funding Council for England (HEFCE).

The research performance indicator measures the research outputs of universities in relation to their inputs, such as staff costs and funding council grants. For the academic year 2000-2001, Loughborough is ranked as the UK's leading institution, when all of the measures are taken into account, leaping six places from seventh position in the previous year's table. The University is also the top institution in terms of the number of PhDs awarded, relative to staff costs.

Of the performance indicators, Professor Neil Halliwell, Pro Vice Chancellor for Research, said, "The majority of Loughborough's research is directed towards assisting UK business and industry needs. Industry expects 'value for

money' in investing with us and these indicators prove we are number one at providing it."

As well as measuring research outputs, the performance indicators – which cover all the publicly-funded higher education institutions in the UK – also assess the areas of:

- access – how successful institutions are in recruiting

students from disadvantaged backgrounds, who are under-represented in higher education

- progression and non-completion rates for students
- the efficiency of learning and teaching, based on the average time taken for students to obtain a qualification, taking account of repeat years and non-completion.

The top ten higher education institutions in terms of research output, per academic staff cost, according to the HEFCE Performance Indicators:

Rank '02	Rank '01	HEI	PhDs awarded	Grant income	Cost centres with staff
1	(7)	Loughborough	2.75	2.55	24
2	(4)	Cranfield	1.25	2.36	5
3	(1)	York	1.79	2.34	18
4	(6)	Aberystwyth	1.67	2.23	16
5	(5)	Oxford	2.30	2.19	24
6	(13)	East Anglia	2.74	1.95	19
7	(3)	LSE	1.21	1.92	7
8	(2)	Warwick	1.49	1.91	19
9	(8)	Cambridge	2.02	1.80	27
10	(10)	Durham	1.10	1.77	23

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Steve Backley and Paula Radcliffe.

December's honorary degrees

World-leading athletes Paula Radcliffe and Steve Backley were among those awarded honorary degrees by the University in December. Each year honorary degrees are conferred by the University upon notable people in recognition of the outstanding contributions they have made to industry, academia, business, sport, the arts and society.

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Tel: 01509 222224
Fax: 01509 223902
Email: news@lboro.ac.uk

Editor: **Hannah Baldwin**
Ext: 2239
Email:
H.E.Baldwin@lboro.ac.uk

Layout by:
Helen McCullam and
Sue Rowbottom

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news@lboro – moving forward

The start of a new year provides a timely opportunity to focus again on news@lboro: its purpose, how to submit articles, what you like about it, and what you don't.

news@lboro is the newsletter for all current and former members of University staff – academic and related, clerical, technical and manual. Produced seven times a year – twice each term and once over the summer vacation – news@lboro is published both in print and online, available in pdf format on the Publicity Office web pages at www.lboro.ac.uk/service/publicity/

Each edition of the newsletter is produced by a team of three people. As editor of news@lboro, I have overall responsibility for the content of the publication – which articles are included, where they appear, and the photos and graphics selected. Every article and photograph is then 'placed' into the newsletter by Helen McCullam and Sue Rowbottom using a desk top publishing package.

Due to space restrictions we can't include every article sent in; neither can we promise to include a particular article in a certain edition. We have to consider the overall balance of the publication and its readership – what's of interest to someone from Chemistry, for example, will not necessarily appeal to someone in the Residential Organisation – and we therefore try to make the newsletter's content as broad as possible. From time to time, and despite our best intentions, we may also be forced to withdraw an article at the last minute, because we have to include a piece of late news which simply can't be held over until the next issue.

While some of the articles that appear in news@lboro are derived from recent press releases, we also rely on you to provide us with stories and

information – and it couldn't be simpler...

1. Send in your article – you can draft it yourself, or let us do it for you. Either way, make sure it reaches us before the copy deadline – a list of dates is circulated each term to departmental contacts and also posted on the staff noticeboard on the web. Also, in every edition of news@lboro the deadlines for the next issue are given on page two. Articles and information should be emailed to us at news@lboro or sent on disk whenever possible, and whatever you send, try to keep acronyms to a minimum, or at least explain them – you may know what they mean, but others may not!

We particularly welcome news of:

- Personal achievements, both in and out of work
- Department/section achievements
- Research projects (please note however that as a list of the new research grants and contracts awarded each month is provided in every issue of news@lboro we are no longer able to provide more in-depth articles on the award of individual research contracts)
- University sports club achievements
- Recommendations for 'Campus Characters'
- Departmental focus – what your department/section does and who the members of staff are
- Staff appointments and retirements
- Department/section name changes
- Offices moves
- University and higher education policy issues
- Letters to the editor
- Sales and wants

2. At the same time send in any photos, with a caption to explain what's happening and the names of the people from left to right. If the photo wasn't taken by Media Services, include the photographer's name so they can be credited. Logos, posters and other artwork are also appreciated. Digital photos or graphics must be of good quality,

ideally 300dpi. All photo prints supplied for news@lboro will be returned after use. Please note that the Publicity Office cannot pay for photographs to be taken for news@lboro, and will only commission photography if the photo can be used for future publicity purposes by the Publicity Office.

3. We write or edit your article, and send it to you to check.

4. Return it to us by the specified date with your approval, or make sure that all amendments or any additional details we may have requested are clearly marked.

So if you've got any queries or comments about news@lboro, then please do get in touch, by calling ext 2224 or emailing news@lboro.ac.uk

Strategic Plan 02-07



The University's **Strategic Plan for 2002-2007** has now been published. It provides a detailed scheme for achieving the key objectives that will advance the University's three core academic activities of research, teaching, and innovation and knowledge transfer.

The Plan has now been distributed throughout the University, and is also available, to University members only, on the Academic Registry's web site at www.lboro.ac.uk/admin/ar/

December's honorary degrees

Continued from page 1

Former Loughborough student **Steven Backley OBE** received the award of Honorary Doctor of Technology (Hon DTech), in recognition of his sporting record as a world class athlete.

Javelin thrower Steve took Gold at last year's Commonwealth Games. He is also the four-times European champion, a double Olympic silver medallist, and the former World record holder.

President of the International Olympic Academy **Nikos Filaretos** (above centre) was made an Honorary Doctor of Letters (Hon DLitt), in recognition of his contribution to the field of Olympic education.

Professor Jeremy Morris CBE – Emeritus Professor at the University of London, and Director of the Medical Research Council's Social Medicine Unit (above left) – received the award of Honorary Doctor of Science (Hon DSc), for pioneering research and the promotion of physical activity for public health.



Loughborough graduate **Paula Radcliffe MBE** was made an Honorary Doctor of Technology (Hon DTech), in recognition of her sporting record as a world class athlete. The award capped a phenomenal year for the local sport star, who won Commonwealth and European Gold, and both the London and Chicago marathons. She was also voted female athlete of the year by the International Association of Athletics Federations (IAAF) and named the BBC Sports Personality of the Year.

Sir Nicholas Scheele – Chief Operating Officer, Ford Motor Company, and President, Ford Automotive Operations (above right) – received the award of Honorary Doctor of Technology (Hon DTech) for his contribution to the manufacturing and automotive industry.



Web site to help women researchers gain funding success

A web site dedicated to helping women scientists in the race for research funding has been launched by the Loughborough-based East Midlands **LAWN** – Local Academic Women's Network – group, as concerns continue that science, engineering and technology disciplines are failing to attract, retain and promote women workers.

Launched just over two years ago, **LAWNs** are regionally based networks of women working in science, engineering and technology within the higher education sector, research establishments or in industry and the professions. The networks offer workshops and conferences focusing on capability, competence, motivation and self confidence, and concentrate on providing support in the development and submission of successful research grant proposals.

"Successfully applying for grant funding is a vital factor in career progression in higher education. This new web site – which outlines the various skills needed to pursue funding successfully and the strategies that have been helpful in dealing with issues that arise in the process – should make this just a bit easier for women scientists," comments Loughborough's personnel adviser, Sandra Jasper.

Concerns about the scientific workforce were aired last summer in a report by the Science and Technology Committee on government funding of the scientific learned societies. The report reiterated concerns that disproportionately few women work in science, engineering and technology (SET) and that those who do seldom make it to the most senior posts.

The idea for the web site arose at a one-day conference, held at Loughborough, at which women scientists discussed how to productively tackle funding proposals, find the best avenues for funding opportunities, and put together creative research teams.

"The good ideas, the discussions and insights generated at the conference deserved to be shared with the wider community of women working across the SET disciplines in higher education, and that's the main reason for putting the web site together," said Sandra. "Even today it can still be lonely for women working in some SET subject areas; everyone at the conference commented on how encouraging it was to share experiences and work things through with others who knew the issues themselves."

The web site can be viewed at www.lboro.ac.uk/admin/personnel/athena_web/index.htm

New ISO for Residential

The University's Residential Organisation has been granted full registration to the new ISO 9000:2000 standard – an internationally recognised benchmark for customer service excellence. It is the first University-owned residential organisation to have achieved this international standard.

The Residential Organisation originally achieved registration to the ISO quality standard in 1999, when it gained ISO9002.

The standard was subsequently updated, and organisations were required to undergo further assessment in order to retain their accredited status.

"Our registration to this improved standard is a great achievement," said Janet Ireland, Residential Organisation's customer service manager, "especially as we only expected to gain re-accreditation after another visit by the auditors in March this year. It gives us an excellent foundation for future developments."

The Residential Organisation also has accreditation to Hospitality Assured – the nationally and internationally recognised industry-specific standard for delivering customer service excellence – and 'Investors in People' (IiP).

New technology to make chemical processing plants safer

Manufacturers will get a helping hand to make their chemical processing plants safer and more effective, thanks to new technology pioneered by a University spin-out company.

A £45,000 Smart Award – given by the Department of Trade and Industry (DTI) for ideas that are both technically innovative and a sound commercial prospect – will enable Hazid Technologies Ltd, which is located in the campus-based Loughborough Innovation Centre, to develop a computer aid called HAZID, which was initiated by researchers in the University's Chemical Engineering and Computer Science departments.

The new technology will help designers and plant operators to spot hazards such as fires or chemical leaks during the planning stage, before they arise when the plant is operating.

One of the standard industry methods for detecting such hazards is "Hazop" studies, which are currently carried out by a team of experienced professional engineers. The team makes intensive studies of the plant diagrams, which may take several days each for a small plant unit and take up many hours of the team's time. HAZID will help the Hazop team by automatically reading the plant diagrams and applying Hazop logic to spot potential causes of hazards, and then tracing their potential consequences.

Jim Madden, company director, said, "HAZID will be able to automate the most engineer-intensive parts of the widely used Hazop method and will drastically reduce the time and effort of these highly skilled and experienced professional engineers while also



producing a more consistent, complete and auditable analysis."

"New reporting and drill-down facilities will give the engineers faster, clearer insights into the results of the analysis and assist them to modify the design to eliminate the hazards before the plant is built."

HAZID integrates with the CAD and IT methods used in the industry, so it will fit companies well established workflow and information management procedures.

It will help improve plant safety by making information on potential hazards easily available to designers, management and Health and Safety regulators.

New year, new era for maths centre



The Mathematics Learning Support Centre.

The new year has signalled the start of a new era for the University's Mathematics Learning Support Centre, with a move to a new location for this expanding facility.

Now based in room W1.42 of the Sir David Davies Building, the Centre – which is part of the Mathematics Education

Centre – is managed by Dr Tony Croft. It is open Monday to Friday, from 9am to 5pm during term-time and provides a range of services designed to support any student at Loughborough in their learning of basic mathematics. In particular, it aims to help students in the earlier stages of their studies, who might benefit from resources and tuition over and above that normally provided as part of their programme. Students can simply drop-in to receive help – no appointment is necessary – and experienced teaching staff are available each day.

The Centre provides an extensive range of books, and handouts on many topics ranging from GCSE to first year university level, together with formula leaflets and A-level mathematics videos. There is also a suite of PCs which are able to deliver computer assisted learning packages, diagnostic tests and computer algebra packages. Supplementary workshops are run throughout the year on key topics, and mathematics notes and other open learning

materials are delivered electronically over the University computer network. The Centre also houses the newly established Engineering Student Support Desk.

Full details of the Centre, its staff and facilities can be found at mlsc.lboro.ac.uk/ Email enquiries should be sent to mlsc@lboro.ac.uk



MetaLib – the Library's new resource discovery service which enables users to search many of the Library's databases using one, easy to learn, web interface – has been officially launched at a recent event in the Pilkington Library. Loughborough is one of the first university libraries to implement this service, which was originally developed by Ex Libris, supplier of the Library's management system. Dr Dave Coates, Chair of the Library Users Committee, said, "MetaLib offers an excellent means of finding your way around the Library's wide range of electronic resources." Pictured, left to right, demonstrating the new service are: Dr Dave Coates, Chair of Library Users Committee, and Ruth Stubbings, Library Academic Services Manager.

Loughborough joins forces with Nottingham Panthers for Ice Hockey's first university scholarship



The University has forged a unique partnership with Nottingham Panthers ice hockey team to provide top young ice hockey players with the best possible start to their career.

Britain's first ice hockey university scholarship programme will become a new element of the existing Loughborough Sports Scholarship Foundation, involving both the University and Loughborough College.

The new scheme is being sponsored by Panthers and allows potential students the opportunity to gain a scholarship to study at Loughborough and maintain elite level coaching and participation through the Panthers system.

Up to three sports scholarships will be available for students who meet the entry requirements for the University's and College's courses.

Courtesy of Nottingham Panthers



Barry Nieckar of the Panthers.

The scholarship will include an allowance to cover tuition fees, accommodation fees, travel expenses, sport support services and playing kit.

"We're very pleased to be getting further involved with top level Ice Hockey and Panthers are an obvious partner for us," said the University's director of sports development, Rod Thorpe. "These scholarships create a unique opportunity for any suitable candidates who fit the bill as both potential Panthers and graduates."

Commenting on the scheme, Panthers' owner Neil Black said, "Loughborough University has a deserved reputation for being the best when it comes to sports-related studies, but also has a wide range of courses. The partnership also extends to Loughborough College, which opens up other course possibilities. The excellence in sport developed at Loughborough is recognised by all the top authorities in sport, and after talks with senior representatives at these institutions, we are pleased to be able to announce this scheme."

Loughborough Campus Radio celebrates thirty years 'on air'

Loughborough Campus Radio (LCR) reaches a milestone this month, when it celebrates 30 years of 'official' broadcasting to the University. An entire week of festivities is planned, including 'Rewind' shows with snippets of broadcasts from the past, culminating in the official birthday party on 22 February.

LCR began life over 32 years ago when some students made pirate broadcasts from a suitcase in the Hazlerigg building, during the Union's rag week in 1970. Originally called 'Radio Mule – A small station with a kick', the broadcasts became increasingly popular and after three years of illegal pirate broadcasting, Radio Mule became LCR, going live on-air officially in 1973.

LCR's home for almost 30 years was a small set of studios located next to the Purple Onion. Then, in the summer of 1999, the station



In the studio.

moved to its current location, the £1.4 million Media Centre in the Students' Union building.

After initially broadcasting to the local University halls through

induction loops placed around the tops of each hall, LCR now broadcasts on 1350AM throughout the whole University during term time all year round, with a one month FM broadcast each year.

Open to all, LCR requires no prerequisites from those who show an interest in radio – students can just turn up and train and from there organise to be involved in any aspect of radio that interests them.

The station is currently searching for past and present members to invite them to the 30th birthday celebrations, which will include an evening bash with food and music on 22 February. So if you were a member of the station, or you know someone who was, contact LCR by emailing manager@lcr1350.co.uk



The station's crew get the celebrations underway!

More than £1 million for University teaching and learning projects

Over the last couple of months Loughborough has secured an impressive £1,017,000 in external funding to support learning and teaching projects. Competition for these awards was intense, with less than one in five bids successful in some areas. Loughborough's successful projects were as follows:

Dr Tess Kay, from The Institute of Sport and Leisure Policy, has secured European Social Fund (ESF) funding of £161,000 to work with local ethnic minority groups through the Widening Access Through Sport project. The project uses sport as a vehicle to attract young people to structured programmes of sport and education activities, specially designed to raise participants' awareness of FE and HE opportunities and help prepare them for entry.

The Mathematics Education Centre (MEC), launched in October 2002, has already achieved notable successes in terms of external awards. In addition to the £250,000 award for the HELM (Helping Engineers Learn Mathematics) project (as reported in [news@lboro](mailto:news@lboro.ac.uk) 17), a year's funding of £68,000 has also been awarded, primarily from the LTSN (Learning and Teaching Support Network), to establish the UK Mathematics Learning Support Centre at Loughborough. This Centre will provide all students entering university with free access to basic mathematical help materials delivered via a dedicated web site. Staff involved in putting the bids together include **Tony Croft**, **David Green**, **Martin Harrison**, **Les Mustoe** and **Jo Ward**.

John Dickens, from Civil and Building Engineering, has secured £199,000 for a project entitled 'Working with Students with

Disabilities in Engineering'. This builds on earlier work supported by LTSN Engineering and will develop a web-based Audit – Analysis – Action – Assurance (4A) diagnostic tool for use at various levels within institutions, to address the quality of provision offered to students with disabilities. Other members of the bidding team were **Adam Crawford** (Engineering Education Centre), **David Jackson** (Disabilities and Additional Needs), **Alan Maddocks** (RAPID Project), **Jan Tennant** (Staff Development) and **Andy Wilson** (Staff Development).

The **Centre for Renewable Energy Systems Technology** (CREST) has received ESF funding of £91,000 for SME development activity. This funding will be used to develop flexible training for the sustainable energy sector.

The Engineering Education Centre has secured £248,000 of ESF funding to develop Multiskills for Advanced Engineering. The funding will be used to develop key skills which will be recorded and tracked using a web based tool. The resources will be delivered in conjunction with the Centre for Engineering Manufacturing Excellence (CEME) at Dagenham to facilitate life long learning for individuals in SMEs. Members of the bidding team were **Adam Crawford** (Engineering Education Centre), **Alan Maddocks** (RAPID Project) and **Richard Newbold** (External Relations Office).

[news@lboro](mailto:news@lboro.ac.uk)

Graduate Stuart scoops inaugural Business Leader of Tomorrow award

Loughborough University graduate Stuart Wright has been selected as a Business Leader of Tomorrow 2002 by the TCS – a government-funded scheme that enables business to access the skills and resources of the UK by enabling high quality graduates to work in companies on knowledge transfer projects. The award scheme, held for the first time ever this year, aims to recognise graduates who demonstrate potential as future business leaders.

Stuart – who graduated from Loughborough with a BA in Industrial Design and Technology – was appointed as a TSC Associate in January 2001 at Nottinghamshire-based firm Rototek Limited – a state-of-the-art rotational moulding company specialising in the production of technically challenging custom plastic components.

Stuart's initial remit was to establish a product design capability and exploit the ensuing business opportunities: a brief which

Official photographer



Stuart (R) collects his award from Lord Sainsbury.

the managing director of Rototek, Martin Spencer, agrees that he more than met.

“Stuart initially had responsibility for four design projects; a year later this had increased to sixteen. He also showed his ability and willingness to develop new skills, becoming manager of Rototek's web site, with no previous experience of web design – his efforts

have quadrupled the hits on the company's site,” said Mr Spencer.

Stuart now operates as a seamless interface between the company, suppliers and customers, with responsibility for all new project management.

Stuart received his Business Leader of Tomorrow award from Lord Sainsbury of Turville, Parliamentary Under-Secretary of State for Science and Innovation, at a ceremony held in London.

Sarah nets engineering award

Student Sarah Bowden has been awarded the Inter-University Engineering Masters Degree Prize. She took the award for her presentation entitled *'The use of hand-held computers on a construction site'*, which she delivered last month in front of an audience comprising industrialists, East Midlands academics, and regional government agencies.

The competition is funded by the East Midlands Professional Engineering Institutions and East Midlands Development Agency (emda) and is open to students from the universities of Loughborough and Nottingham. The entrants' presentations were judged against several criteria, including how their project will affect the future.

Sarah, who is currently working for her Engineering Doctorate, has wanted to be an engineer since the age of fourteen. She has worked with consulting engineers Arup for over nine years, and with experience in Europe and the USA, as well as the UK, she is now a senior project manager and a specialist in implementing IT in construction. Sarah's experience on the

£500 million new M6 Toll Road – the first major UK toll road and Britain's largest-ever road project – was the basis of her 2002 Loughborough MSc research, which demonstrated that people on construction sites are ready to embrace the IT future.

The projects were judged by the Deans of Engineering from the two competing universities – Professor Chris Backhouse from Loughborough and Professor Alan Dodson from Nottingham – together with Cedric Brown, former Chairman of British Gas.

Sarah was presented with her award of £500 by Sir Peter Williams, who is Chairman of the new national Engineering and Technology Board, Master of St Catherine's College Oxford, and a director of GKN plc.

Another Loughborough student, John Proctor, also took part in the competition. His presentation, entitled *'The development of a variable-valve timing system for test and research engines'*, earned him a runner-up prize of £75 and a certificate.

The competition took place at the Loughborough-based Ford College.



Sarah demonstrates a hand-held computer device on the construction site for the Athletics High Performance Centre, which is currently being developed on campus.

Student news

Two graduates from the Department of Chemical Engineering, **Doug Bailey** and **Rob Gill**, have won the Royal Society of Chemistry ExemplarChem competition for work done in their final year of study. The prize winners received their awards in London in November for the best undergraduate R & D Project web site – 'The removal of Chromium (VI) ions from aqueous solutions using solvents impregnated resins'.

Richard Hadley, a final year Chemical Engineering MEng student, has been awarded the IChemE Particle Technology Subject Group prize for his high quality research project on 'A mechanistic investigation of thin cake filtration'. Richard's project, supervised by Dr Steve Tarleton, was recognised for its evidence of a good understanding of engineering and scientific issues, innovation and originality.

Former PhD student **Evelyn Kerslake**, who has helped to establish the LAWN web site (see p3 for further details), has been awarded the Library History Group prize for the best essay in the field of library history in 2001, for her article 'Angry sentinels and business-like women: identity and marital status in 1950s English career novels', which was co-authored with Janine Liladhar. Evelyn and Jane were considered by the panel to have "distinguished themselves in their study not only by excavating a relatively hidden aspect of the history of librarianship, but also by the methodology they employed in drawing on gender theory and history, as well as a set of sources until now passed over by library historians."

A group of **Chemical Engineering students** has been awarded books from one of the world's largest petroleum and petrochemicals groups, BP, in recognition of their academic achievement in their first year of study. Former Loughborough student John Horler, who now works for BP, presented a copy of *Perry's Chemical Engineering Handbook* to each student, during a teaching visit to the department.



The students with their books

NEWS@100



engineering@loughborough

The second issue of *engineering@loughborough* – the Faculty of Engineering's magazine aimed at A level students and prospective undergraduates – is out now.

Featuring news of our current students' achievements and articles on some of the research currently being carried out at Loughborough, the magazine also provides career and course information.

For further information on the magazine contact Andrew Cooney, Engineering Marketing Officer, on ext 7510, email A.S.Cooney@lboro

Aeronautical & Automotive Engineering

CFD Modelling of RH211 premix passages

Prof J J McGuirk
£7,140 Rolls Royce

OGV/Diffuser Optimisation

Prof J J McGuirk and Dr J F Carrotte
£18,750 Rolls Royce

Unstructured CFD for Combustors

Prof J J McGuirk and Dr G J Page
£18,000 Rolls Royce

DARP: Measurement & Modelling of Turbulent Under Expanded Jets

Prof J J McGuirk
£280,419 EPSRC

Chemical Engineering

Characterisation of Listeria Monocytogenes to Provide Tools to Predict Biofilm Formation during Cheese Making

Dr G Shama
£158,459 European Commission

Technology Transfer of Application Protocols, Standards & Health/Safety Criteria for the Use of Spray Drying Technology

Dr A G F Stapley
£23,334 European Commission

Chemistry

Investigation into the Sorption Characteristics of Inorganic Sorbents

Prof P Warwick
£37,000 Magnox Electric

Technetium Chemistry in the Long Term Management of Radioactive Waste

Prof P Warwick
£30,000 Nirex Ltd

Civil & Building Engineering

Improving the Assessment of Risk to Occupants and Communities due to Aircraft Operations on and near Airports

Mr M Hirst, Dr D E Pitfield and Dr I M Humphreys
£302,386 EPSRC

Wireless and Semantic Web Based Integration of Construction Services

Prof C J Anumba, Dr N Bouchlaghem and Dr P M Carrillo
£176,215 EPSRC/IMRC

Manual Handling in Highway Kerb Laying

Mr A F Gibb
£25,000 Construction Health & Safety Group

Computer Sciences

Knowledge Management

Dr R Dawson
£36,000 Astra Zeneca

Research Studentship

Dr R Dawson
£7,500 LSC Group

Study of Computer Based Media Effects on Learners who have Dyslexia

Prof J L Alty and Dr N Beecham
£3,000 Institute for Learning and Teaching

"Expecting"- A pregnant Dummy Model as a Tool for Improving Safety in Automobile Design

Dr S Acar
£140,599 EPSRC/IMRC

CRSP

IAG Tracking Studies

Mr K Ashworth
£2,500 The Institute for Employment Studies

Proposal for Developing a Local Evaluation Framework for Saffron Sure Start

Ms K Kellard
£32,850 Barnodos Midlands

Meta Analysis of US Welfare to Work Programs

Mr A Cebulla
£45,410 University of Maryland Baltimore County

Employers and Service Providers' Responses to the DDA in 2003

Dr B Stafford
£202,234 Department for Work & Pensions

Employers Pension Provision Survey 2003

Mr A Cebulla
£41,278 British Market Research Bureau

Design & Technology

Research, Development and Demonstration of a Novel Non Invasive Continence Management System

Ms D C McDonagh
£142,631 European Commission

Electronic & Electrical Engineering

Venous Oximetry: Proof of Concept

Prof P R Smith
£25,000 BTG plc

Venous Oximetry: Clinical Demonstration Phase 1

Prof P R Smith
£67,103 BTG plc

Low Cost Small Wind Turbine Unit-A Smart Feasibility Study

Prof D Infield
£19,305 Small Business Service

SMDS Monitoring

Dr D J Parish
£13,000 British Telecom

CASE Awards

Prof D G Infield
£26,400 Renewable Heat and Power Limited

MMHA Research Project

Prof J C Vardaxoglou
£95,313 Orange Personal Communications

English & Drama

Did I Phase this Correctly?

Making sure your Technical Terminology isn't Somebody Else's Jargon
Dr C Christie
£25,091 DFID

ESRI

Pan European Co-ordinated Accident and Injury Databases

Mr P D Thomas
£623,658 European Commission

Roadside Infrastructure for Safer European Roads

Mr P D Thomas
£132,780 European Commission

Proposed Reduction of Car Crash Injuries through Improved SMART Restraint Development Technologies

Mr P D Thomas
£128,001 European Commission

Co-operative Crash Injury Study

Mr P D Thomas
£1,105,492 TRL Limited

European & International Studies

TASK: Review of Projects

Prof L Hantrais
£16,162 European Commission

Human Sciences

Assessment of Thermal Properties of Protective Clothing and their Use

Dr G Havenith
£110,002 European Commission

Manual Handling in Highway Kerb Laying

Dr R Haslam
£25,000 Construction Health & Safety Group

Information Science

Research Studentship

Dr S Proberts
£7,500 LSC Group

Focus Group Evaluation of the NGfl Portal, the VTC and the TRE

Dr J Wishart and Dr S G Proberts
£12,409 BECTA

IPTME

Faraday Fast Track Proposal-Ceramic Foams as the Basis for Interpenetrating Composites

Prof J G Binner
£84,667 EPSRC

Mathematical Sciences

Optimisation of a new, Macrophage-Based Gene Therapy for Cancer

Dr M Owen
£128,156 BBSRC

Mechanical & Manufacturing Engineering

Modelling the Postal Pipeline

Prof R M Parkin and Dr I Pratt
£30,000 Royal Mail

Perfect Bore Research Fellowship

Dr H Rahnejat
£42,694 Perfect Bore Ltd

Knowledge Representation and Re-Use for Predictive Design and Manufacturing Evaluation

Prof K Case, Dr R I Young and Dr J A Harding
£299,102 EPSRC/IMRC

Rapid Manufacturing of Printed Web Based Materials

Dr M R Jackson and Prof R M Parkin
£237,040 EPSRC/IMRC

Correlating Objective Measurements with Subjective Perceptions for Sports Equipment Design

Prof R Jones, Dr S J Rothberg and Dr N Mansfield
£211,168 EPSRC/IMRC

Nanotesting of Nanocomposites

Dr I Ashcroft
£10,000 QinetiQ

Structural Adhesive Bonding

Dr I Ashcroft
£95,000 Ministry of Defence

School of Sport & Exercise Sciences

Influence of Carbohydrate: protein mixtures on recovery

Prof C Williams
£128,139 GLAXOSMITHKLINE

Social Sciences

The Integration of Patients Concerns into Treatment for IBD: A Qualitative Study of Opportunity and Understanding

Prof A R Radley
£68,200 National Assoc'n for Colitis and Crohn's Disease

WEDC

Did I Phase this Correctly?

Making sure your Technical Terminology isn't Somebody Else's Jargon
Mr B Reed
£25,092 DFID

WATSAN TO Energy

Mr J R Rouse
£23,650 Shell Foundation

Japanese company donates high-tech equipment to University

The UK arm of Japanese company Anritsu has donated state-of-the-art test equipment to the University for use in research and teaching. The equipment, valued at £11,000, enables accurate performance measurement of 'Bluetooth' wireless devices which are beginning to appear in a wide variety of consumer electronics products, including personal digital assistants (PDAs) and laptop computers.

Bluetooth enables personal electronic devices to communicate without the inconvenience of cables – a particular advantage where, for example, a handheld computer needs to connect to the internet via a portable mobile telephone.

Useful addition for teaching and research

The presentation took place at Anritsu's high-tech European Measurement Division (EMD) headquarters in Stevenage in December. The equipment was handed over by Product Manager



(L-R) Angus Robinson from Anritsu and Loughborough's Dr James Flint.

Courtesy of Anritsu Ltd

Angus Robinson to James Flint from the Department of Electronic and Electrical Engineering.

"This equipment will be an extremely useful addition for both research and teaching in the department," commented Dr Flint. "We will be able to make immediate use for research on wireless networks, antenna design and placement, and there are future plans to increase teaching in this area for our specialist Wireless Communications programme."

The presentation included an overview of the design and use of the equipment and was followed by a tour of the manufacturing facility.

Loughborough: the graduate recruiters' favourite

Loughborough has once again been named as one of the favoured universities for graduate recruitment by more than 100 leading companies, according to the latest 'Graduates in the Eyes of Employers' survey.

The survey showed that 65% of recruiters focus their activity on particular universities, with Loughborough listed as one of their favourite destinations.

Top spot

Their reasons for targeting specific universities included the reputation of the university and the employers' previous experience at the institution, with the range of courses on offer named overwhelmingly as their main reason.

In another survey of recruiters' perceptions of higher education and graduates, Loughborough claimed the top spot for the second year running as the

employers' favourite provider of civil engineering/construction graduates.

We were also judged to add the greatest value to our graduates, meaning that students achieving average A level results can make the most of themselves by studying here.

For General/Other Engineering, Loughborough's top ranking in the 'value added' table, coupled with its second position in the main 'employers' favourite' table make Loughborough the UK's outstanding institution for General/Other Engineering recruitment, as it is in Civil.

Roll of honour

Chemical Engineering's **Dr David Edwards** and **Professor Jai Gupta**, who is a Visiting Fellow in the Department from IIT Kumpur, have been awarded the Hutchinson Medal of the Institution of Chemical Engineers for 2002. The Hutchinson Medal is awarded for the paper presented to or published by the Institution that is likely to act as a catalyst to engender discussion and influence future practice. David and Jai's paper was published in *Process Safety and Environmental Protection* and was concerned with inherently safer design (ISD). It is anticipated that the paper "will stimulate debate in industry and the Health and Safety Executive, and spur companies to examine their own approaches and attitudes to ISD".

Professor Peter Golding, Head of the Department of Social Sciences, has been appointed as an Academician of the Academy of Learned Societies for the Social Sciences. The Academy represents the social sciences of the United Kingdom to government, research councils, business and international bodies.

Professor David Kirk, from the School of Sport and Exercise Sciences, has been invited to present the annual Scholar Lecture to the Research on Learning and Instruction in Physical Education Special Interest Group at the American Educational Research Association's Conference, to be held in Chicago in April 2003. The conference is a major event on the educational research calendar and regularly attracts over 13,000 participants. The Scholar Lecture Award acknowledges a systematic programme of scholarly work conducted over at least a ten year period that has made a significant contribution to the field of pedagogy research in physical education.

Adrienne's trip of a lifetime

Loughborough graduate Adrienne Evans' goal was clear when she undertook a gruelling trek through the stunning Simien Mountains in Northern Ethiopia – to raise vital funds for Red Cross work in the country.

Adrienne, who studied for a degree in Ecology and later for a PGCE at Loughborough, joined thirty other trekkers on the once-in-a-lifetime trip, managing to raise almost £3,000. The trekkers walked an incredible 25 miles a day and had to cope with extreme temperatures, as high as 30°C during the day to as low as -3°C at night. Most of the walking was done at high altitudes through the magnificent scenery of the Simien Mountains, reaching peaks of 4,430 metres.

"The trek was an amazing time beyond any previous experience," said Adrienne. "The trekking itself was physically tough, particularly coping with the high altitude, the freezing night-time temperatures and the distinct lack of 'powder-rooms', but I was so grateful not to become ill in any way other than a touch of altitude sickness."

"It was an emotionally challenging experience too – a combination of the beautiful scenery and wonderful Ethiopian people who, although they have a life expectancy at birth of only 44 years and are so materially poor, put us trekkers to shame despite all our high-tech clothes and trekking gear. This was especially brought home to us when seeing little barefoot, barelegged shepherd boys running over the mountains to bring us their home-made wool hats to sell to us as the only means of earning some cash, or when the camp guides and helpers overtook our struggling party one morning

bearing on their backs all the trestle tables we had eaten off the night before so that they could be at the next campsite before us."

Courtesy of Adrienne Evans



During the trip the group visited a number of Red Cross projects and were able to see for themselves how their sponsorship money was transforming and improving the lives of the local people, which, Adrienne says, was a humbling experience.

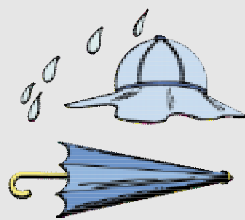
"We visited some of the schools around Gondar which have received some assistance from the Ethiopian Red Cross, and we were welcomed as if we were royalty into their schoolrooms, which were little more than wattle-and-daub huts. The Red Cross has provided blackboards, benches, chairs and concrete floors for some of these schools, along with a well from which the children can obtain clean water for the school or to sell to the local community to bring in a little revenue to maintain the school. The children were so proud to show us their exercise books and their VIPs – Ventilated Improved Pit-Latrines!! While we were away, our

group had another whip-round amongst ourselves and we managed to raise enough money to build an extension to one of the schools, which would mean that the older children could stay on at this school rather than walk seven miles across the mountains to try to receive some education."

The British Red Cross works in partnership with the Ethiopian Red Cross on projects such as water and sanitation and community health programmes. Over £30,000 has been raised from the trek and this money will be used in areas of greatest need through Ethiopia.

Sale starts soon!

This year's sale of found property is scheduled for 10 February at 7pm in the James France Exhibition Hall. Items up for auction will include clothing, pens, watches, umbrellas, calculators and bicycles.



All proceeds from the sale will go towards the Students Distress Fund, which is maintained for students in financial difficulty.

All the property up for auction was found prior to 31 January 2002 and is, as yet, unclaimed. If you believe you may have a legitimate claim to an article, you are advised to contact either Philippa Henson or Julie Perkins on ext 2143 as soon as possible, or to call into the Security Reception office during normal working hours.

Better than Beckham?

Are you a fantastic footballer – but you just haven't had the opportunity to show it?! If so, why not enter the staff inter-departmental 6-a-side football tournament, which is due to start at the beginning of February?

Teams entered for the tournament so far are: Business School FC, Civil's Soccer Supremos, CompuScience, Geography 'All Stars' and Media Services FC, together with teams from Mech Eng, Estates, Sports

Development Centre and Sports Technology, and two teams from Chem Eng.

So if you and your colleagues fancy getting involved, all you need to do is let Tom Jackson, from the Department of Computer Science (ext 8231, email T.W.Jackson@lboro), know the following:

- The name of your team
- The days you



would prefer to play your matches (Monday to Thursday)

- A member of your team who is prepared to referee matches
- The number of teams you wish to enter.

Miscellaneous sales

Bicycle, lady's 5 speed Dawes – £25; 10 speed **Mountain bike** for 9 - 12 yr old boy – £20; 5 speed **Mountain bike** for 7 - 9 yr old boy – £20; Tel 217489 or Email D.G.Infield@lboro.ac.uk

2 Mission Cyrus **Hi-Fi Isoplat Isolation Platforms**, ex. cond – £40 the pair or £25 each; Russ Andrew 'The Silencer' **Power Filter**, ex. cond – £25; 2 Russ Andrews **Power Clamps**, electrical mains filters, ex. cond – £10 each or £15 the pair; Email N.M.Vaughan-02@student.lboro.ac.uk

Raleigh 'Medale' **racings bike**, 27" wheels, rack on back for panniers, needs slight attention (broken chain) – Offers; Email P.E.Beamon@lboro.ac.uk

Tandem **Pushchair** – £50 ono; Sandy Edwards, ext 2152 or Tel 550035.

Ladies 'Falcon' **bicycle** with front basket, needs attention, complete with helmet – £30; Tel 219089 between 8-10pm.

NorthFace skiing jacket, grey/white/black, double GoreTex layering, waterproof zips, 4 air vents, 5 external and 2 internal pockets, fold away hood, only worn for 3 weeks, in ex. cond, was £250 new – £110; Daniel, Email D.A.Vera@lboro.ac.uk

Aerobic Stepper, 'Delta Enterprise' with hydraulic resistance cylinders – £45; Tel 219089 between 8-10pm.

Miscellaneous wants

LP records, anything considered, but mainly jazz or light classical, must be in ex. cond; Email N.M.Vaughan-02@student.lboro.ac.uk

Car share, Melton Mowbray to Loughborough; Chris, ext 2249 or Email C.A.Shaw@lboro.ac.uk

Polyurethane Handbook by Gunter Oertel (2nd edition), wanted; Email A.M.Abdul-rani@lboro.ac.uk

Vehicles for sale

Fiat Tipo, G Reg ('89), 1.6 DGT, 5 door, metallic blue, MOT til Sept '03 – £300 ono; Tel 0773 4536 274.

Ford Fiesta, 1.1 M Reg, 58,000 miles, tax and MOT, lady owner – £1,200 ono; Tel 245973 or ext 7567.

Ford Escort, 1.4L, G Reg ('90), 3 door hatchback, automatic transmission, blue, 1 year MOT, 6 mths tax – £600 ono; Najha, Tel 560469 or 0777 6256651 or Email Najha3@yahoo.com

Houses for sale/rent

Loughborough, modern 2 bed house to let in quiet area near University, well furnished, CH, off road parking – £445 pcm;

Loughborough, modern purpose-built 1 bed house in quiet area near University, well furnished, CH, off road parking – £345 pcm; Tel 504977.

Loughborough, 3 rooms in shared house, fully furnished, located in town centre, central heated, big kitchen, big bathroom and shower room – large double room – £50/wk + bills, double room – £45/wk + bills, available from 1/1/03; Tel: 0788 7875 998 or 0774 7180 255.

Miscellaneous services

Handyman, professional and reliable, household electrical, small brick work, garden maintenance, decorating and general DIY; Dave, Tel: 01530 458264 or 0793 1954 294.

Babysitting available, responsible 15 yr old girl seeks babysitting work, reasonable rates; Isabel Peach, Tel 217489.

Purchasing paper and recycled paper. For information on Media Services' purchasing policies and recycled paper go to: <http://www.lboro.ac.uk/mediaservices/pages/paper.html>

news@lboro

Dear Editor ...

I wish to thank friends and colleagues for their cooperation and support during my fifteen years at the University.

A very big thank you for the generous gifts and best wishes I received at my presentation.

Janet Harris
Retired Telephone Manager

news@lboro

Do you enjoy the **taste of fresh local food?** Would you like to have your **food delivered direct to your door** each week?



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what's on@lboro

A more comprehensive 'What's On' diary is available on the University web site at www.lboro.ac.uk/

**Wednesday
5 February**

**The European Convention on the Future
of Europe**

**4.00pm to
5.30pm**

Room A.2.04, Schofield building.
Contact Dr Maurice FitzGerald on 01509 223659.

**Thursday
6 February**

Maggini Quartet

7.30pm

One of the finest British string quartets on the international chamber music circuit. Cope Auditorium. Tickets: Adults £7, Students £4, Concessions £6. Further information from the Arts Centre, Tel 222899.

**Saturday
8 February**

Loughborough Orchestra

7.30pm

Cope Auditorium. Adults £5, Students £3, Concessions £3.
Further information from Julia Green, Tel 263759.

**Wednesday
12 February**

**Actors of Dionysus present David Stuttard's
adaptation of Aeschylus' 'Agamemnon'**

7.30pm

A brooding masterpiece of psychosis, possession and revenge.
Sir Robert Martin Theatre. Adults £7, Students £4, Concessions £6.
Further information from the Arts Centre, Tel 222899.

**Thursday
13 February**

Burleigh Club

8.00pm

Talk by David Putt on the Great Central Railway.
Further information from Betty Cattell, Tel 233911.

**Wednesday
19 February**

CFSP after 9/11

4.00pm to 5.30pm

Talk by Professor Chris Hill. Room A.2.04 Schofield building.
Everyone welcome. Further information from Maurice FitzGerald, Tel 223659.

**Thursday
20 February**

London Opera Players in Mozart's 'Don Giovanni' 7.30pm

Directed by Tom Hawkes, orchestra conducted by Charles Farncombe.
Sir Robert Martin Theatre. Adults £9, Students £6, Concessions £7.
Further information from the Arts Centre, Tel 222899.

**Monday
3 March**

Burleigh Club

8.00pm

Talk on advertising by Mrs Willett. Senior Common Room,
Edward Herbert Building. Further information from Betty Cattell, Tel 233911.

**Wednesday
12 March**

Weava Divas

8.00pm

Talk by Dr Joanna Helck on 'Weava Divas: femininity, black stylisation and notions of belonging in magazines for minority ethnic women in France and the UK'. Everyone welcome. Room A.2.04 Schofield building.
Further information from Maurice FitzGerald, Tel 223659.

