



THE QUEEN'S  
ANNIVERSARY PRIZES  
1994

MAY 1997

## SIR DAVID ATTENBOROUGH RETURNS TO HIS ROOTS

### UNIVERSITY ARBORETUM NAMED AFTER SIR DAVID

THE broadcaster whose nature programmes have done more than anything to inspire young people to study wildlife paid a return visit to the University to the obvious delight of a group of nature-loving schoolchildren.

Sir David Attenborough, who attended the University between 1944 and 1945 and is an honorary graduate, is no stranger to either city or campus - his father was a Principal of the University College and the Attenborough family lived on campus.

On Wednesday 23 April, as part of the University's Jubilee Year, Sir David formally opened the University Arboretum, which bears his name, before delivering a public lecture at the De Montfort Hall on *Revealing the Private Life of Plants*.

Sir David, whose work has encouraged more than a generation of biology students sometimes known as



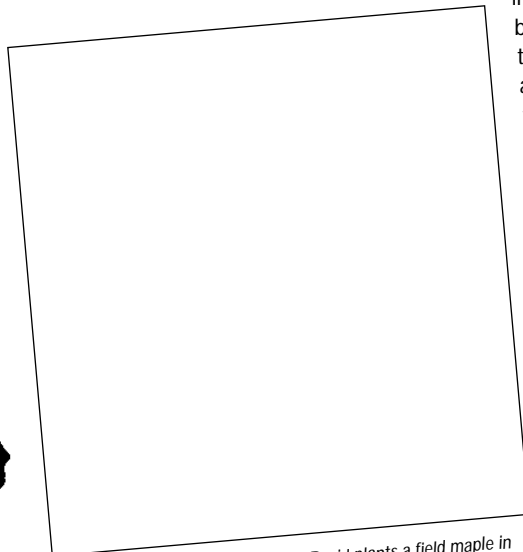
**NATURAL TALENT:** Local children had the opportunity to meet Sir David Attenborough.

"Attenborough's children", met groups of local schoolchildren at the University's Botanic Garden and later in the afternoon, when he opened the Attenborough Arboretum on Carisbrooke Road, Leicester.

Many schools have already shown their interest in the Arboretum by attending two tree planting days, and a number of teachers and students from both primary and secondary schools were involved in planning the programme for the opening day.

This included a celebration of trees, with dancing, drama and music, tree dressing and a variety of workshops with trees as

*Continued on page 3*



**ROOTING FOR NATURE:** Sir David plants a field maple in the presence of Chancellor, Sir Michael Atiyah, and Vice-Chancellor, Dr Edwards.

### I N S I D E

#### WHAT'S COOL!:

University astronomers discover the coolest star yet. Page 4



#### WHAT'S NEW!:

New to Science - Zoology Department announce discovery of a new worm. Page 5



New Centre with a focus on Medieval research. Page 9



<http://www.le.ac.uk/>

## TESTING TIME FOR CHILDREN

A SENIOR lecturer at the University is developing a test to assess the quality of a child's relationships.

The Child Relations Test which is currently being developed by Dr Andrew Parkin, Senior Lecturer in Child Psychiatry at the University, assesses the child's perspective of the emotional quality of relationships with important people in his or her life.

Dr Parkin, honorary consultant in Child and Adolescent Psychiatry, said: "Children taking the test are asked about their feelings for others, and what they think others feel for them.

"The emotional development

and well-being of children are influenced by such relationships, but there are no tests that satisfactorily assess the child's perspective of these. The test is computerised, making it attractive to children, simple to administer and provides data that are readily available for analysis."

Dr Parkin added that the validity and reliability of the test is currently being assessed with children attending the local clinic.

"From previous surveys, there is plenty of scope for the use of this test in clinical practice. It can also be used in training and future research," said Dr Parkin.

## PATIENTS NEED ATTENTION AND INFORMATION

**FAILURE** to provide patients with proper information or making them feel unimportant could reduce their chances of recovery, say University researchers whose findings have been published in *Health Which?*

Researchers in Eli Lilly National Clinical Audit Centre, which forms part of the University's Department of General Practice and Primary Health Care, spoke to focus groups of hospital patients about their health care, and found that many patients felt left 'in limbo' by the organisational structures of the health service.

Uncertainly in hospital is particularly distressing because patients assume no news is bad news, according to Dr Hilary Hearnshaw and Carolyn Preston, who conducted the study.

The following may all prove distressing:

- not knowing what will happen after you get your test results
- not knowing how long you will have to wait
- being made to feel unimportant, eg when you see a junior doctor, not the consultant promised
- a feeling of no control over treatment, eg when you ask for information and it isn't provided.

Researchers say such feelings may hamper treatment by reducing patient co-operation and may even cause patients to stop their treatment.

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### BULLETIN

The *Bulletin* aims to publish news and features which inform staff and students of developments affecting the University, and to report on the decisions of Council and Senate.

Tell us your news! We welcome stories and pictures from individuals and departments, so send your copy to the Editor in Press and Alumni Relations, Registrar's Office. The closing date for the next issue is **Friday 16 May** for publication in the first week of June. The Editor reserves the right to amend or abbreviate copy without notice.

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People, Books, Research, Cuttings, Notices, Artstop.

Reporters: Judith Shaw/Jane Pearson

Design and layout: Julie Bowles

Pictures: Central Photographic Unit,  
Leicester Mercury, Roy Peters Photography.

Printed by Central Reprographic Unit.

Newsline: 0116 252 3335  
Advertising: 0116 223 1168

## ON-LINE BULLETIN

Issues of the *Bulletin* in 1997 are accessible on CWIS via the following web address: <http://www.le.ac.uk/bulletin/>

## 'I FEEL PRIVILEGED TO BE OPENING THIS INITIATIVE' – SIR DAVID

*Continued from front page*

a central theme. The plan for the day also included rainforest adventures, jungle art, making shelters and bivouacs, charcoal burning, coracle making, building a Tudor house and paper making, all carried out with great enthusiasm by the schoolchildren.

Sir David joined many of the groups of delighted youngsters to have a few words about their imaginative projects, as well as to answer questions and sign autograph books which were treasured afterwards.

The workshops explored the vital importance of trees in the daily lives of people in the British Isles and around the world, and demonstrated the rich variety of educational activities that can be enjoyed at the University's Botanic Garden and the Arboretum.

A limited number of places for secondary and sixth-form students were also available on a special workshop run by Tim Shepherd, one of the photographers who worked with Sir David on the television series, *The Private Life of Plants*, and who has pioneered new

techniques in time-lapse photography.

The SEED Project (Support for Education in Environment and Development) co-ordinated the preparations for the Day. SEED was set up in 1993 to develop the educational use of the Botanic Garden, using its plants and facilities in innovative ways to explore global environmental, conservation and development issues.

Speaking at the inauguration of the SEED Project, Sir David said: "I see SEED as one of the most valuable educational projects we can have. Without plants we

would starve, and we would have no oxygen. I feel privileged to be opening this initiative".

The Arboretum, which includes a classroom and pond,

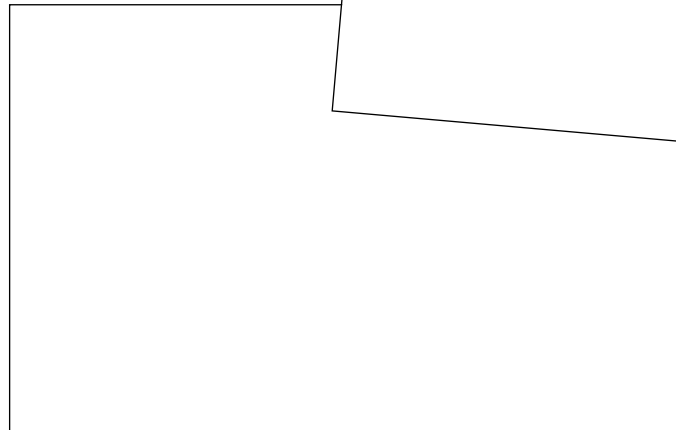
adds a new dimension to SEED's work. Trees are being planted in the order of their arrival in the British Isles since the last Ice Age, and this collection will complement the Botanic

Garden's collection of plants from around the world.

Sir David planted the latest addition to the tree population in the Arboretum - a field maple (*Acer campestre*).

Curator of the Botanic Garden Dr Richard Gornall said: "The opening of the Arboretum and the inauguration of the SEED project by Sir David are two extremely important and exciting developments for the University Botanic Garden.

"We had children from over 40 schools attending, including primary, secondary and sixth-forms. The theme was our native woodland - where it has gone, what we have used it for and how we can look after what is left. This theme was given a global perspective by drawing parallels with what is happening currently to forests in the tropics."



TREE TIME: *Activities at the Arboretum.*

## CBI BACKS SPACE CENTRE PROJECT

BUSINESS Leaders in the East Midlands have given their backing to the bid to base a National Space Science Centre in Leicester.

After receiving a presentation on the scope of the project, the CBI's influential East Midlands Regional Council agreed to support the initiative, spearheaded by the University in partnership with the City, which is seeking Millennium Commission funding.

CBI East Midlands Regional Chairman, Mr Paul Hodgkinson, said: "There was strong interest in the Centre which is undoubtedly an impressive and exciting project planned for the heart of the region.

"It is a significant initiative which has national importance and members felt it was appropriate to support an initiative which would be so closely allied to focusing on the process of technological change".

The Council heard the project would aim to regenerate a derelict riverside site at Abbey Meadows, Leicester, and provide a stimulus for international co-operation in space research and technology as well as a unique visitor attraction.

Mr Hodgkinson said: "The East Midlands economy would certainly benefit greatly from having such a high-profile Centre based in the region. Clearly a great deal of work still needs to be done, not least in trying to win Millennium funding.

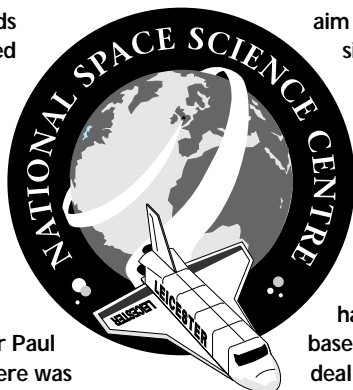
"We hope the project receives the

national support it deserves. Already a number of private and public sector organisations have pledged their support and the CBI is pleased to join them."

NSSC steering committee chairman Mr John Eggleston urged colleagues in the business community to embrace the prestigious project: "The National Space Science Project will be of tremendous benefit to the Leicestershire business community," he said.

"The project will secure around £40 million of inward investment and lead to the creation of over 80 permanent jobs.

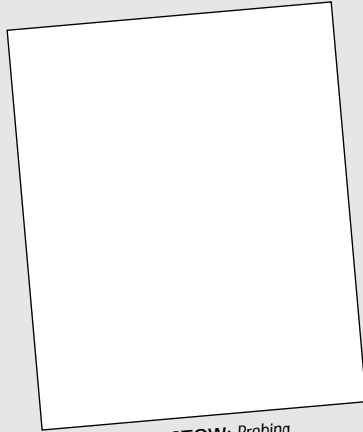
"It does not matter who we speak to, everyone is tremendously excited about the project. It really does offer something for everyone," he said.



## EVIDENCE OF A NEARBY SUPERNOVA – 4 MILLION YEARS AGO

A TEAM of astronomers led by Dr Martin Barstow of the University's Physics and Astronomy Department has used a group of white dwarf stars to probe the structure of interstellar space in the vicinity of the Sun.

Measurements made with the Extreme Ultraviolet Explorer (EUVE) Satellite have revealed that the local gas appears to be highly ionized in all directions. This can only have happened as the result of a nearby supernova explosion. The observed fractions of ionized



MARTIN BARSTOW: Probing interstellar space

hydrogen (27%) and helium (35%) indicate that this explosion occurred around 4 million years ago.

Dr Barstow and his team, including Paul Dobbie (University of Leicester), Jay Holberg (University of Arizona), Ivan Hubeny (Goddard Space Flight Centre) and Thierry Lanz (University of Utrecht), have used the EUVE spectrometers to carry out detailed observations of 13 nearby white dwarfs, using the shadowing effect of the interstellar medium on the

white dwarf spectra to measure the density and level of ionization.

Dr Barstow presented the team's findings at an International Astronomical Union Colloquium on "The Local Bubble and Beyond", held in Garching, Germany in April. A paper on the topic was also published in the 21 March issue of the Monthly Notices of the Royal Astronomical Society.

## COOLEST STAR DISCOVERED BY ASTRONOMERS

ASTRONOMERS at the University have discovered the coolest brown dwarf so far identified.

Dr Richard Jameson, Dr Simon Hodgkin, David Pinfield and Martin Cossburn found this object using telescopes in the Canary Islands and Hawaii. It is located in the Pleiades star cluster, commonly called the Seven Sisters.

The brown dwarf - dubbed PIZ1 - is a failed star with a surface temperature of just 2,000C, far less than others.

It is one of only four brown dwarfs ever recorded and the important discovery may help reveal the secrets of the formation of stars.

Brown dwarfs may account for the dark matter that is believed to make up 90 per cent of the total mass of the universe. Richard Jameson explains, "People have been looking for these things for a long time. Very few have been discovered but there must be a lot of them, probably as many as there are stars. This brown dwarf is possibly the lowest mass brown dwarf yet found, with a mass 48 times the mass of Jupiter. Its age is about 100 million years. One other brown dwarf could have a lower mass, but its mass is uncertain because its age is not known."

The discovery was announced at the National Astronomy Meeting in Southampton.



STAR DISCOVERY: UKIRT (UK Telescope) Hawaii used by the University.

### GRADUATE REUNION IN LONDON

The forthcoming graduate reunion is to be held on 19 June at the RAF Club, Picadilly. For further details, please contact Abi Skeggs (Press and Alumni Relations) on 252 2931.



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## DONATION ALLOWS UNIVERSITY TO BUILD ON SUCCESS

THE world-class reputation of the University's space research has led to a trans-Atlantic gift from an international businessman with a fascination for astronomy.

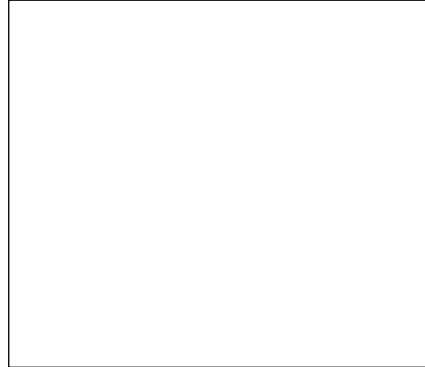
Mr A K Velan, whose Canadian-based multi-national engineering company has a branch in Whetstone, Leicester, was so impressed by the work of the Physics and Astronomy Department at the University that he has personally donated £10,000 towards a new observatory.

On April 21, Mr Velan visited Leicester to open officially the new observatory in Manor Road, Oadby, accompanied by the University's Vice-Chancellor, Dr Kenneth Edwards, Dr Richard Jameson, senior lecturer in the Physics and Astronomy Department, and other members of the University.

Dr Jameson said: "We are delighted that Mr Velan has made this generous gift and that he will perform the opening of the new observatory.

"We have an older observatory at Manor Road with a fairly old fashioned, 16-inch telescope. Now that we have this new 12-inch telescope we will be able to use the two together - which is ideal. The new telescope is a neater and tidier model, and has the advantage of being computer controlled.

"We will be able to mount instruments permanently on one of the telescopes and since we can use the other for visual observations, we will not have to keep on removing the instruments. It will facilitate taking photographs and will help advance our research."



**GIFT OF VISION:** Mr Velan with Dr Edwards at the observatory.

The new telescope also has a filter that blocks much of the light from sodium lights. This minimises the effect of light mass which is always a problem in a city such as Leicester

Mr Velan spoke enthusiastically of his support for the bid to the Millennium Commission by the University and the City of Leicester for the

creation of a National Space Science Centre, and his desire for continuing involvement with the Department.

## DELIGHT AT DISCOVERY OF 'LIVING FOSSIL'

STAFF and students in the Department of Zoology are delighted at the discovery of a new worm - described as a 'living fossil'.

The type of velvet worm, thought to be new to science, has been discovered by student Miss Beverley Sherbon (23). She found the worm while researching for her PhD. She plans to give the 36-legged creature an official name when she publishes her thesis this year.

Miss Sherbon discovered the new species in a batch of South African velvet worm samples sent to her by research associates from Cape Town University. Velvet worms are in fact neither worms nor arthropods but a phylum of their own which live in leaf litter and eat other small creatures.

Miss Sherbon said: "It was really special. I was surprised and delighted to find this new species. I love my animals and it is brilliant for me to be able to name my own species."

The worm is less than 5 cm long, the same as another rare South African velvet worm. The new species is brown with a red-

orange head. It also develops differently to other species of velvet worm.

"This worm grows all in one go," said Miss Sherbon. "Normally the worm adds segments one by one."

The new worm doesn't grow in segments, instead its body grows all at once in an elongated bag of fluid, a bit like a sausage.

Dr Muriel Walker, senior

lecturer in Zoology, said: "We are reasonably convinced this is a new species of worm. It is only the second worm to be found to develop in this way."

"The other one, Opisthopatus, was found in South Africa at the turn of the century but it was only discovered that it developed non-segmentally seven years ago."

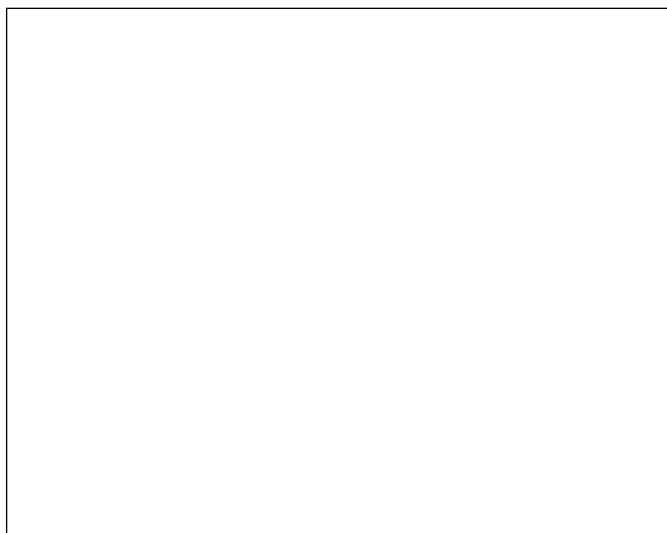
She added: "Velvet worms are living fossils as they are considered

to have existed prior to the break-up of Gondwanaland. Areas in which they are currently found include the West Indies, parts of Central and South America, South Africa, Australia and New Zealand."

She added that the worms, in different parts of the world, exhibited different reproductive strategies although early embryonic development follows the same basic pattern where the embryo grows by the addition of segments from a posterior growth zone.

"It was particularly exciting for me to discover a few years ago that in one of the South African species, early development follows a completely different pattern and my graduate student has been making a comparison of morphological aspects of the two patterns," said Dr Walker.

She added: "It was a double bonus to find a species that has not been previously described and to find that it too demonstrated the different pattern of development."



**SOUTH AFRICAN:** Beverley Sherbon with the worm new to science.

## THE ULTIMATE PAINKILLER?

IMAGINE a painkiller 200 times more powerful than morphine but without the side effects of conventional painkillers! And, what is more, a compound that may hold hope in the future for sufferers from Alzheimer's Disease!

The key to the mystery lies in the heart of South America, in one of the toxic substances secreted by the brightly coloured tree frog, *Epipedobates tricolor*, currently under investigation by Dr John

Malpass, of the Chemistry Department.

Discovered only in 1992, the compound called epibatidine fired the enthusiasm of many researchers because of its medical implications and its unusual structure. It is the first natural product which has this particular structural type and has now been made in the laboratory by a number of research groups

so that there is no need to work with the frogs themselves.

Dr Malpass and his research team have already discovered ways of producing variants on

ahead. He is co-operating with a major pharmaceutical company in testing new compounds made at Leicester and is developing ways of extending the range of compounds available and modifying their properties.

The research team has made compounds in which parts of the epibatidine structure are grafted on to molecular fragments similar

**'The new compounds are made in steps from simple chemicals and the frogs themselves are not involved at all.'**

in a completely different way from morphine and other opiates, and this has given reason to believe that it may hold a clue to reducing the symptoms of Alzheimer's disease.

The particular site in the central nervous system

(receptor) which is targeted by nicotine may hold the key. Despite its addictive and toxic nature, nicotine has a number of very

positive properties in terms of brain functions such as memory and cognition and can also reduce the effects of Alzheimer's Disease. Surprisingly, epibatidine is much better than nicotine itself at binding to this key receptor and hence the search for even more active compounds is under way.

Speaking of his research, Dr Malpass said: "We have been working with compounds very close to epibatidine for many years. Nature still holds many secrets and the discovery of this powerful small molecule from a tiny frog has given our work a tremendous boost in the search for therapeutically useful compounds."

**GIANT LEAP:** Dr Malpass says the discovery of a powerful small molecule from a tiny frog has given a tremendous boost to the search for therapeutically useful compounds.

this new structure in their Leicester

laboratory, and as a result he has been invited to talk about his work as far afield as the Far East and Australia.

The naturally occurring compound, epibatidine, cannot be used safely since it also has toxic properties. Dr Malpass sees the design of more potent and selective variants as the way

to those found in natural products from well-known plants such as deadly nightshade and coca. The new compounds are made in steps from simple chemicals and the frogs themselves are not involved at all.

Already, researchers have discovered that epibatidine acts

## RARE DEER IN PERIL

**CONCERN** for the declining numbers of a rare fallow deer has been voiced by a University professor.

Professor of Environmental Biology and Head of Zoology, Professor Robert Smith, said the rare strain of long-haired fallow deer was confined to the Mortimer Forest in Shropshire.

The world's entire population of the deer, numbering 100, is close to

extinction due to poaching. The BSE crisis has increased demand for venison and it is thought that poachers have killed many of the rare deer.

The long-haired fallow deer was first recognised in the fifties. Professor Smith said the strain evolved after a single gene mutation.

## HIGH-FLYING SUCCESS

The University's Jubilee Open Day proved to be a high-flying success for one department in particular.

The Balloon Race organised by the Chemistry Department saw a balloon travelling all the way to France. Professor Mike Blandamer said: "The winning balloon travelled quite a distance and ended up in a place called Poil Chevre near the town of Quarre les Tombes which is situated about 135 miles south-east of Paris."



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## JUBILEE ADVENTURE

THE University continues to share its double Jubilee celebrations with members of staff with the people of Leicestershire and with others beyond.

Over the next few months many celebrities will be giving public lectures at the University, dealing with exploration and adventure from the outer limits of space to the inner secrets of plant life.

Sir David Attenborough, world-renowned broadcaster, naturalist, and honorary graduate who attended the University between 1944 & 1945, gave the first talk in the series, entitled *Revealing the Private Life of Plants*.

Dr Patrick Moore will have his head firmly above the clouds for his talk, *Exploring the Planets*. A freelance author and astronomer, he is well-known to the nation as the presenter of the BBC series *The Sky at Night*.

Dr Moore is a former President of the British Astronomical Association (1982-84), and an honorary member of the Astronomic-Geodetic Society of the former USSR and the Royal Astronomical Society of New Zealand, and has published widely in the field of astronomy, including *The Planet Uranus* (1988), *The Planet Neptune* (1989), *Space Travel for the Under Tens* (1989), *The Amateur Astronomer* (1990), and *Mission to the Planets* (1990).

Last year he was awarded an Honorary Degree of Doctor of Science by the University.

*Exploring the Planets* takes place in the Rattray Lecture Theatre on Thursday 8 May at 7.30 pm. Admission is free. Tickets available by calling ext 5109.

ITN Senior Foreign Correspondent, Michael Nicholson, OBE, is both a graduate and honorary graduate of the University, where he returns to talk on *Thirty Years of International Reporting*.

He is no stranger to danger, and has covered the Yom Kippur conflict and wars in Nigeria, Ulster, Vietnam, Cambodia, Jordan, India and Pakistan, Zimbabwe (then Rhodesia), Cyprus, Beirut, Angola, the Falklands, where he was awarded the Falklands medal, and the Gulf where he received the Gulf

medal. He was Journalist of the Year in 1991.

His publications include *Partridge Kite* (1978), *Red Joker* (1979), *December Ultimatum* (1981), *Across the Limpopo* (1985), *Pilgrims Rest* (1987), *A*

CELEBRITY TALKS: Sir Alec, top, and Dr Moore, above.

*Measure of Danger* (1991) and *Natasha's Story* (1993).

*Thirty Years of International Reporting* takes place on Friday 16 May at 5.30 pm in the New Building (Lecture Theatre 1), University of Leicester. Admission is free. Tickets available by

calling ext. 5109.

Sir Alec Jeffreys, Professor of Genetics at the University, hit the headlines when he invented the revolutionary DNA genetic fingerprinting technique, first used by the police in 1986 in the Enderby case involving two girls who had been raped and murdered.

The technique pioneered at the University is now implemented across the world, and in his public lecture, *From Antarctica to Chernobyl* he will be telling the story of its discovery and development.

Last year Professor Sir Alec Jeffreys was awarded the Albert Einstein World Award of Science. He is a Fellow of the Royal Society, a Freeman of the City of Leicester, has been named as Midlander of the Year, and in 1994 was awarded a knighthood for his services to science and technology.

*From Antarctica to Chernobyl: the story of genetic fingerprinting* takes place on Thursday 29 May at 5.30 pm in the New Building (Lecture Theatre 1). Admission is free. Tickets available by calling ext 5109.

We stay at the poles for *A Year of Adventure* with the explorer David Hempleman-Adams, when he will recount his experiences at both South and North Poles.

His daring exploits round off a year of celebrity lectures at the University of Leicester to mark a double Jubilee. It is 75 years since its beginnings as a University College and 40 years since the award of its University Charter.

*A Year of Adventure: The Geographical South Pole Solo, the South Magnetic Pole and the North Magnetic Pole* will be on Wednesday 4 June at 5.30 pm in the New Building (Lecture Theatre 1). Admission is free. Tickets available by calling ext 5109.

## SCIENCE AND THE SLEUTH

RENOWNED for the discovery of the revolutionary DNA genetic fingerprinting technique, the University staged a major conference designed to bridge the gap between the work of the scientist and the sleuth.

*Science and the Investigation of Serious Crime* examined how expertise ranging from forensic accountancy, 'brick fingerprinting', soil analysis, psychology and archaeology can help to track down killers and to solve other crimes.

Whether assisting in the investigation of new crime, or helping to correct past injustices,

forensic science retains a very high profile in the news. Indeed, it is often commented that scientific techniques hold the key to the future of criminal investigations and there is major investment in research and development.

Jerry Hart, from the University's Professional Development Unit, said: "New technology, evolving techniques and continual restructuring in the police service create a constant challenge both for investigators and scientists to remain fully aware of what forensic science can do for them.

"The principal aim of the conference was to help delegates

acquire a greater awareness of how science can contribute to the success of their work. We hope that this event and others like it have helped to break down professional barriers between detectives, scientists and other types of expert — all of whom may employ different approaches to problem solving.

Senior investigating officers, police scientific managers and forensic scientists attended the conference. Presentations focused on the application of a range of subjects, including accountancy, archaeology, biochemistry, entomology, geography, geology,

pathology, psychology and zoology.

"Keynote speakers included Senior Treasury Counsel Nigel Sweeney, Senior Scientific Advisor David Barclay of the Forensic Science Service, Detective Superintendent Andy Brown of West Yorkshire Police who is an expert on paedophile investigations, Chief Inspector Stuart Kirby of Lancashire Constabulary.

The two-day event was supported both by the National Crime Faculty, Bramshill, and the Forensic Science Service.

## NEW MEDIEVAL CENTRE TO BE LAUNCHED

EXPERTS in the Medieval World have joined forces to launch a new centre at the University.

The Medieval Research Centre has its base in the English Department and the innovative venture will focus on interdisciplinary collaboration within the University.

Established to co-ordinate research in medieval subjects across the Faculty of Arts, the Centre will sponsor conferences, colloquia, and a programme of lectures and seminars by local and visiting speakers.

Affiliated to it are scholars in the Departments of Archaeology, History of Art, English, History, English Local History, and in the School of Modern Languages,

with research interests in fields ranging from late classical archaeology to the cultural history of the reign of Henry VIII.

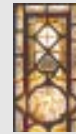
The Centre's first director is Dr Greg Walker, reader in English, who, with Dr Elaine Treharne, lecturer in English Language and Medieval English Literature, is also a member of its Management Committee and Board of Studies. A third member of the department, Dr Julie Coleman, lecturer in English Language and Literature, is also affiliated to the Centre, and will contribute to a planned MA programme.

"The Centre is intended to provide the focus of a lively postgraduate culture, with members studying for research degrees in the full range of disciplines represented

within the faculty," explained Dr Walker.

"It is also intended to add to this culture through the introduction of a new and innovative taught master's programme, the MA in Medieval Culture: Evidence and Interpretation."

The Centre will be formally launched with a public lecture by Janet Backhouse, Curator of Medieval Manuscripts at the British Library on Friday, July 11, at 5.30pm in Lecture Theatre I in the University's New Building. The lecture, which is being run in association with the University Library, as part of the programme of events to mark the Library's 75th Jubilee.



UNIVERSITY OF LEICESTER

medieval research centre

## NEW SEASON OF MUSIC

THE new University music programme brings a definite touch of summer in the air.

Music for a May Night (Wednesday 14 May)

features music by Handel, Mozart, Schubert, Berlioz, Verdi and Ravel, and is devised and directed by Robert Kenny. Soloists will be

Sara Norris (soprano), James Gilchrist (tenor), Louisa Phillips (mezzo-soprano), Robert Clarke (bass) and Moira Finch (piano).

The University Wind Band concert (Saturday 10 May) adds an open air touch, with Copland's *An Outdoor Overture* and Holst's *A Moorside Suite*, as well as music by Gordon Jacob and Hamlich.

The new season opened on 23 April with a recital by Alan Thomas (guitar) and Anne Bolt (piano) playing Italian music for guitar by Giuliani and Scarlatti and American music for piano by Copland and Bernstein.

Three choral concerts offer a variety of musical experiences. On 30 April the University Singers, directed by Anthony Pither, and the Leicester Male Voice Choir, conducted by Richard Dunn, sang Venetian music of the seventeenth century, music by Britten and Handel, spirituals and folk

melodies.

The Proteus Chamber

Orchestra with members of the University Choral Society and Singers go out into the county to perform Haydn's *Te Deum*, "Marie Therese", Krommer's *Double Clarinet Concerto*, Op 35, and

Beethoven's *Symphony No 8 in F Major*, on Wednesday

11 June at the Sutton-in-the-Elms Baptist Church. Proceeds will go to The Laura Centre.

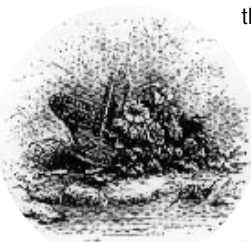
On Saturday 21 June the Leicestershire chamber choir, Cantamici, comes to the University for the first time. Conducted by Phillip Gilbert, Cantamici will perform music by Britten, Bernstein and Kosma, as well as spirituals, opera choruses and folk songs.

The new Richard Attenborough Centre for Disability and the Arts, Lancaster Road, will host two concerts during the summer term. On 25 April baritone and television personality, Benjamin Luxon, CBE, was the singer and narrator and David Willison the accompanist in an evening of songs by Vaughan Williams, with a narration of the epic poem *Enoch Arden* by Alfred Lord Tennyson with

incidental piano music by Richard Strauss.

On 24 June the Richard Attenborough Centre will welcome the Nettle and Markham piano duo, with an array of music by Mozart, Schumann, Brahms, Walton, Ravel, Bernstein, Milhaud, Coates and Grainger.

All evening concerts start at 7.30 pm, and except where otherwise indicated will be at the Fraser Noble Building on London Road. In addition to the evening concerts, between April 23 and 18 June there will be a full programme of free Wednesday lunchtime concerts in varying venues, starting at 12.45 pm.

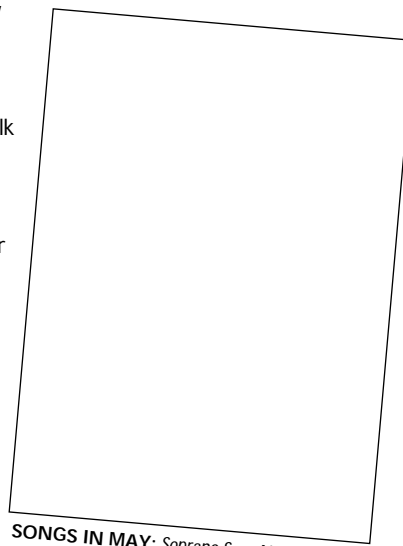


### ARE YOU THINKING OF MAKING A GIFT TO CHARITY IN YOUR WILL?

If so, please remember the University. More and more people are now including gifts to charity in their wills. For the givers, it is a way of helping to ensure that vital work or causes can continue for generations to come. For the University, legacies are an increasingly important source of support. The University has established a legacy programme in order to ensure that whatever the future brings, it can go on providing vital new facilities, support pioneering research and assist with student welfare. As a charity, all legacies to the University are not subject to tax.

Your gift could be for a specific purpose or to the Council of the University for it to decide what is the priority at the time. The University's research in important areas: cancer and medical research, child welfare, and many others, will all aid future generations.

For details, contact ext 2195.



SONGS IN MAY: Soprano Sara Norris sings on a May night.

## HONORANDS VOICE THANKS AND EXPRESS DELIGHT

THE University's honorary graduands have spoken of their delight at being honoured by the University in the summer degree congregations. The following are extracts from some of the comments received:

**Sue Cook:**

"I am absolutely delighted to have been asked to accept an Honorary Degree at Leicester University. I feel really moved that my old University should recognise my broadcasting career in this way.

"Just as this year marks a double anniversary for Leicester, it also coincides with a special anniversary for me, as 1997 is my twentieth year as a television and radio broadcaster.

"I have so many memories of my time at Leicester University. Those three years were my watershed between childhood and adulthood. I had chosen to do my degree at Leicester University as, at that time, it was the only University to offer a 'Combined Honours' course. So I was able to study three subjects along with Psychology (English, Archaeology and Sociology) instead of having to choose just one.

"I was also able to blossom socially, getting involved with exploits like singing in a rock group; serving on the Entertainments Committee, booking bands like Pink Floyd and The Move; standing for Deputy President of the Students' Union (I didn't get in, but in those early feminist days, I was the first female student in the University's history to have stood for such a post) and being Rag Queen one year, dressed for some reason, in a dreadful yellow plastic frock.

"I am particularly looking forward to the presentation ceremony in July, as I had to miss receiving my BA back in 1971. I was suffering with a severe abscess on my tooth at the time. Now my parents will get their proud moment after all!"

**Dr Heather Couper:**

"I have always been so grateful to Leicester for having so much faith in me. After all, you took me in on two Es and an A, had the indignity of watching me undertake two subsidiary maths resits, and then had

the grace to award me an upper Second.

"I am over the moon with your offer of an Honorary Doctorate - it means a great deal to me."

**Her Excellency Dame Rosalyn Higgins:**

"I am delighted to be receiving an honorary degree from the University of Leicester, which has a long tradition of high quality teaching in law and in international relations.

It is a University whose teaching of international law is marked by commitment and drive."

**Dr Jeff Hoffman:**

"I have had a continuing relationship with Leicester University throughout my professional career.

"In my last year as a graduate student at Harvard University in High Energy

Astrophysics, I received a fellowship allowing me to continue my studies anywhere in the world. I asked several colleagues for their recommendations, and it was clear that in the then small but emerging field of X-ray astronomy, the group at Leicester University, under the leadership of Ken Pounds, stood out, and I chose to spend the next year at Leicester.

"One year stretched into three-and-a-half years. When I finally returned to the United States, I had an English wife and a two-month-old son.

"Professionally, I had gained valuable experience designing and carrying out rocket-borne X-ray astronomy experiments.

"I had also gained valuable experience on the European continent, representing our Leicester group in joint projects with the Max Planck Institute in Munich and the European Space Technical Center (ESTEC) in Noordwijk, Holland. I participated in the design of a European X-ray astronomy satellite, EXOSAT, that was eventually launched after I had already

become an astronaut.

"Although the technical and scientific level of the group was high, the size was small, so I took on tasks relatively more responsible than I might have worked on had I remained in a large group in the USA. This was extremely useful in developing my professional competence.

"I have maintained a personal relationship with my friends and former colleagues at Leicester University ever since I left. Since becoming an astronaut, I have returned to Leicester every few years to give talks about my space activities and to keep up with the exciting work that is going on at Leicester.

"I have been pleased to watch the continuing evolution of the X-ray astronomy group at Leicester University. It is much larger and technically more sophisticated than when I was there, but this mirrors the progress that has been made in space technology over the past twenty years. Space exploration has become truly international, and

Leicester's space activities show this just as do many of NASA's.

"Of course the ability to participate fruitfully in international projects depends on the possession of unique capabilities in one's own group, and the Leicester Physics Department has maintained an admirable technological cutting-edge base and considerable depth in spaceflight operational experience which it can offer to its partners in future endeavours.

"I look forward to seeing what new successes the future will bring."

**Sir Dai Rees:**

"The University of Leicester is an outstanding international centre for research in the biomedical sciences, and it has been a great pleasure to work with the research community here on their imaginative plans

with the Medical Research Council over the past ten years. I am greatly honoured by the award of this degree."

**The full list of honorands is:**

**Leicester ceremonies:**

Professor Raymond Baker; Mr Jack Birkenshaw; Ms Sue Cook; Dr Heather Couper; Miss Carol Galley; Dame Rosalyn Higgins; Dr Jeff Hoffman; Sir Dai Rees

## Northampton ceremonies:

The Rt Hon Sir Stephen Brown; Mr Patrick Coldstream;  
Sir Richard George; Mrs Anita Tasker; Commander LLM Saunders Watson  
CBE

## LEICESTER DEGREE CONGREGATIONS - JULY 1997

**Wednesday 9 July 1996 at 3.00 pm: Faculties of the Social Sciences and Law**

Honorary Degrees: Dame Rosalyn Higgins (Doctor of Laws)  
Miss Carol Galley (Doctor of Laws)  
Social Sciences: Master's Degrees in Law and Employment  
Relations, Economics, Urban History and Economic  
History; Bachelor's Degrees in Economics, and  
Economic and Social History  
Law: All degrees

**Thursday 10 July 1997 at 11.00 am: Faculties of Arts and Science**

Honorary Degrees: Dr Jeff Hoffman (Doctor of Science)  
Sir Dai Rees (Doctor of Science)  
Arts: MA in Museum Studies  
Bachelor's Degrees in Geography, Ancient History  
and Archaeology  
Science: Master's Degrees in Biomolecular Technology,  
Electromechanical Design, Museum Studies, Natural  
Resource Management and Physics; Bachelor's  
Degrees in Archaeology, Biological Sciences,  
Engineering, Geography, Human and Environmental  
Science, and Physics

**Thursday 10 July 1997 at 3.00 pm: Faculties of Arts and Education and Continuing Studies**

Honorary Degree: Ms Sue Cook (Doctor of Letters)  
Arts: Research Degrees; Master's Degrees in English,  
English Local History and Historical Studies;  
Bachelor's Degrees in American Studies, English,  
French, German, History, History of Art, Italian,  
Modern Languages, Combined Studies and  
Humanities  
Education and  
Continuing Studies: All degrees

**Friday 11 July 1997 at 11.00 am: Faculty of the Social Sciences**

Honorary Degree: Mr Jack Birkenshaw (Master of Arts)  
Social Sciences: Research Degrees; Master's  
Degrees in Business Administration, Child  
Protection Studies, Criminology, Criminal Justice  
Studies, Diplomatic Studies, European Politics,  
Public Order, Social Work, Sociology of Sport, Social  
Sciences Research, Security Management and  
Training; Bachelor's Degrees in Communications  
and Society, European Studies, Geography, Politics  
and Sociology

**Friday 11 July 1997 at 3.00 pm: Faculties of Science and Medicine**

Honorary Degrees: Professor Raymond Baker (Doctor of Science)  
Dr Heather Couper (Doctor of Science)  
Science: All research degrees; Bachelor's Degrees in Biological  
Chemistry, Chemistry, Geology, Mathematics,  
Computer Science, Psychology and Combined Studies  
Medicine: All degrees (including Clinical Psychology)

## PATIENTS AT RISK?

DIFFERENT PATTERNS OF CARE FOR THOSE WITH DIABETES

OVER recent years, the trend has been towards different patterns of care for patients with diabetes. Hospital clinics see less than half of these patients on a regular basis. Special clinics or regular check-ups for patients with diabetes (organised by GPs and practice nurses) have been set up, and around a third of patients now attend their general practice in this way. The remainder may be at risk, through lack of regular care, of ending up with complications which could have been avoided.

Dr Elizabeth Goyder, who holds a Health Service Research Training Fellowship, funded jointly by the Medical Research Council and Trent Regional Office at the University's Department of Epidemiology and Public Health, is trying to discover whether there is a relationship between the pattern of routine care for diabetes and a patient's risk of being admitted to hospital.

•  
**'In the adult population, diabetes is on the increase, and at current rates, one in ten people will develop diabetes at some stage in their life'**  
•

"In total, my study has included over 1,000 people with diabetes from a randomly-selected group of general practices", explains Dr Goyder, "and we are now in the process of analysing the results to see what lessons can be learnt".

Previous research looking into why people with diabetes are admitted to hospital has been

entirely based on details taken from patients attending hospital clinics. As Dr Goyder points out, this group is already scrutinised more intensely than most.

She is convinced that research focusing on experiences in general practice is overdue. "As a doctor who has worked in diabetes clinics in both hospital and general practice, I have been struck that however much we try to do for those we see, there is an important group whom we don't currently see on a regular basis, and for whom we could be doing a whole lot more". Diabetes care is also a good example of an area where there is a need for studies to see how primary and hospital care are interrelated.

Research of this kind in general practice should help to resolve uncertainties over the best way to organise care for common conditions like diabetes and promote better care for all our patients.

**PURSUING RESEARCH:** Dr Elizabeth Goyder travels between GPs' surgeries.

Roy Peters Photography

# Business Bulletin

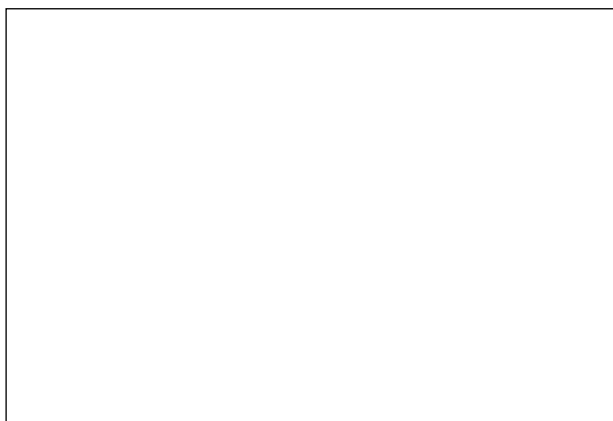
## A NEW GENERATION, MAINTENANCE FREE, UNIVERSAL DC MOTOR FOR ENERGY EFFICIENT APPLICATIONS

A Lincolnshire company, Marshall Barry (Lincoln) Ltd, has been successful in winning a SMART award for Innovation for the development of technology licensed to them from the University of Leicester. The award was made to Roger Hobby, its Managing Director, by the Rt Hon Greg Knight MP, Minister for Industry at a ceremony in Prestwold on 29 November last year.

The company was awarded £45,000 over a year period (against an overall budget of £ 62,000). The project aims are to design and assess the feasibility of a new type of energy efficient, variable speed, universal DC electronic motor/generator drive.

Recently a number of new electric motor applications have

arisen, where a new compact, high performance, robust, zero maintenance electrical machine is required. For the scope of the SMART award, this new motor is intended primarily for the electric traction market. However, other specialist high volume applications will be looked at, for example, lawnmowers, electric drills, and washing machine drives, etc. The vast majority of these examples utilise the universal brushed motor. This commonly used motor is ideal for intermittent and variable speed applications. However, the brushed universal motor has a number of short comings, which the new motor drive will



SMART AWARD PRESENTATION AT PRESTWOLD HALL: (left to right) Kate Murray, Roger Hobby, Rt Hon Greg Knight and Paul Lefley

overcome. Furthermore, with such high volume applications a small saving in the efficiency of the motor together with a lower cost of manufacture, could lead to a

significant saving in terms of national energy consumption, as well as providing "UK Ltd" with a very competitive motor for the domestic product market.

Other possible applications for the proposed motor are numerous, including the replacement of existing mains or grid connected machines, particularly where the application would best require the use of a

variable speed drive.

Here the feasibility of a retrofit design is being looked at, where the frame of the existing machine may be recycled to further lower the cost of manufacture.

The technology, developed by Dr Paul Lefley in the Department of Engineering is the subject of a European patent application filed by the University which has been licensed to

Roger Hobby for the purpose of this project. Modelling of the motor has progressed favourably and the team are currently building the first prototype.

## Patents Recently Filed:

LUCENT is responsible for the University of Leicester's Intellectual Property and currently has an extensive patent portfolio, covering the technologies it is promoting to industry within the broad areas of Biological, Medical and Physical Sciences.

Patent applications recently filed by LUCENT, in the name of the University of Leicester, are described below.

A patent application has been filed on an invention concerned with T-Cell Stimulating Antigens found in skin, which may be important in several inflammatory disorders. This technology is under development by Professor Richard Camp in the University's Department of Dermatology.

Dr Michael Murray from the University's Department of Genetics, who has now moved on to the MRC's Technology Transfer Group, and Dr Julia Brown, also of the Genetics Department, have identified proteins with enhanced expression in malaria-carrying mosquitos, together with methods for their detection. A patent based around a Diagnostic Test has recently been filed.

For further information on the opportunities of Intellectual Property protection and commercialisation please contact Mrs Kate Murray (ext 2696) or Dr Laurie Phillips (ext 5157) in the LUCENT office.

## Novo Nordisk

In March Kate Murray and Laurie Phillips travelled to London to meet Dr Chuck Gray, Manager, New Business and Technology Transfer for Novo Nordisk. Dr Gray is based in Denmark and was visiting the UK to attend a conference on Technology Transfer.

Kate and Laurie met Chuck Gray and his colleague, Susan Thorpe, primarily to discuss Novo Nordisk's potential interest in the patent application that the University jointly owns with Vittal Mallya Research Foundation in India. This patent application, developed by Dr Peter Meacock and Dr Chris Hadfield of the University's Genetics Department and their colleagues in India, is concerned with a novel way of expressing recombinant human insulin from yeast. Diabetes care is a major concern of Novo and several other relevant areas of research within the University were identified and discussed.

Another area of interest for Novo Nordisk, is women's health care - particularly that related to post-menopausal problems. There was much information that the University representatives were able to give about Leicester expertise in this connection.

Matters discussed at this initial exploratory meeting will be carried forward when representatives of the Company visit the University in the very near future, with a view to meeting some of the key groups and individuals working in their areas of interest.

**Bulletin is pleased to receive contributions from across the University for Out and About.**

**Drop a note about what's happening in your department/unit to**

**Out and About, Bulletin, Press and Alumni Relations.**

## Out & About

EDSC, College House (Ext. 5090).  
Robin Webb

### ENGLISH LOCAL HISTORY

A Saturday School on Saturday 17 May at Vaughan College, Leicestershire: *A Celebration of Local History*, includes presentations by academic staff from the Departments of English Local History, History and Adult Education. Appropriately scheduled in the University's 75th Jubilee Year, its programme's sessions range from St Wilfred and his See: The Anglo-Saxon Diocese of Leicester, Richard III and Leicester and 'Odd stockings to fancy hosiery': the Leicestershire Hosiery Industry, 1590s-1850s. The Department of

English Local History has helped to provide, in association with the Department of Adult Education (organisers of this event), a day which will be of interest to anyone fascinated by the varied features of Leicestershire's distant and recent past.

### SCARMAN CENTRE

A special issue of the *International Journal of Risk, Security and Crime Prevention* focuses on the topic of *risk and profit*. It is edited by Dr Edward Borodzicz and Dr Alice Hills of the Scarmann Centre.

- In the 'personal opinion' section of this special issue, Dr Sally Leivesley, an international consultant in business continuity, suggests that risk management can be a 'powerful process that boardrooms can use to generate new profits'.

Dr Alice Hills says 'taking this advice seriously could turn losses to profits. In addition to obvious financial advantages the changes advocated by Dr Leivesley could result in a new and welcome role for risk managers'.

- Professor Brian Toft argues that organisations can learn to manage and assess threats much more effectively. Toft argues that knowledge, and therefore foresight, can be gained through understanding events which have already occurred in other organisations and which operate similar systems.

### ADULT EDUCATION

*Diverse Britain: Let's Meet, Let's Talk* is a Saturday School to be held on 10 May at Vaughan College, so that prospective students can sample new courses.

Each participant is invited to choose two sessions from: Explaining Benefits: an Introduction to the System; Health Services and Black People; Hinduism and the Media; Introduction to Urdu Poetry; Let's Talk: Communicating with your Children; How the Media Represent Us; Migrations to Britain.

The fee for the day is £5 including lunch. Further information and registration forms are available from the Secretary, Vaughan College on 251 768 or Jane Clarke on 252 5969.

This course is one of the initiatives for which the Department of Adult Education has been funded by HEFCE, as part of a nationwide programme. The remit is to undertake research and develop appropriate courses to encourage participation from all of Leicestershire's communities.

Jane Clarke

### COMPUTER CENTRE

Ellen Pawley has just completed Phase I of a "Tour Tool" for Dr Sarah Scott, Archaeology, and it is currently being evaluated by students. The "Architecture & Society": Interactive Approaches to Architecture Design & Use" Web page can be viewed at the temporary URL: <http://indigo.stile.le.ac.uk/-arch/SAS/main menu.html> This prototype tool used JavaScript so you need Netscape v2 or higher to view this tour of the House of Faun at Pompeii. Part of this project was funded from the "Fund for New Teaching Initiatives" which provides practical and financial support for the development of the University's teaching, learning and assessment activities. For more details about this fund contact Richard Clark of the Teaching and Learning Unit (Tel: 5232).

Helen Pownall has nearly completed Phase I of the CASTLE (Computer ASSisted Teaching and LEarning) project. This project, funded by JISC as part of their Technology Applications Programme, aims to produce an authoring shell for the production of on-line multiple choice

questions (MCQs). If you would like to see the results of her early attempts then visit the project page from the LTG Web page (location <http://www.le.ac.uk/cc/ltg/>).

### Examinations: Past-Paper Database

A project that has been thought about for some time is the development of a past-paper database. This database would be available via the Web and would be serviced by the STILE Table Tool. This tool searches and retrieves information from the Course Module Database. Past-papers would be stored in a format that is faithful to the original layout of the paper - Adobe Acrobat (PDF) format. Word documents may be converted to PDF formats so please don't throw your old files away!

### EDUCATIONAL DEVELOPMENT AND SUPPORT CENTRE

#### Ring of Success

Jonathan Ring, a third year medial student, achieved the distinction recently of being the first person to be awarded the Leicester University Certificate of Voluntary Work. The CVW scheme, originally developed by the University's Enterprise Learning Initiative, is now administered through the Teaching and Learning Unit - part of the Educational Development & Support Centre (EDSC).

The aims of the programme are to provide formal recognition of the voluntary work activities undertaken by many students, while helping them to develop a range of transferable skills that will be useful in the world of work after graduation. More information on the CVW is available from Robin Webb,

**DISTINCTION:** (seated) Professor Robin White, Pro-Vice-Chancellor; Jonathan Rigg; (l-r, standing) Annie Grant, Richard Clark and Robin Webb of the Educational Development & Support Centre.

# OUT & ABOUT

Dr Borodzicz, course director of a new MSc course in Risk, Crisis and Disaster Management by distance learning notes: 'This is potentially the most important social advance in understanding risk management this century'.

- The journal includes a debate on whether the theory of risk is useful for practitioners.

Other papers are included by recognised experts, Dr Alan Kirkwood discusses public perceptions of risk and Professor Gerald Mars and Steve Frosdick further add to the discussion about how theory can inform practice.

## SCHOOL OF SOCIAL WORK Report on research findings on work with children and families

where adult mental health, alcohol and substance abuse and domestic violence are issues.

The School of Social Work has been commissioned to investigate the impact of domestic violence, mental illness, alcohol and substance abuse in parents on children's wellbeing. This is an

important commission within the Department of Health's new initiative on refocussing children's services, the main thrust of which is that the different services responsible for children's welfare, such as Health, Education and Social Services should work more closely together.

Furthermore, because of the current split of Social Services into adult provision and services for children, the needs of the family as a whole are not always adequately addressed. The Department of Health's overview of studies on child protection, to which the School of Social Work contributed two key studies, showed that the problems of domestic violence, mental illness, and alcohol and substance abuse in parents were not fully appreciated.

Another ongoing study at the School of Social Work (for the Department of Health) on the needs of children in the community has added further evidence about the need for social workers to define risk to children in wider



**PRIZE QUESTIONS:** *Phillip and Krystina Doughty (joint winners of History's Competition) with Professor Housley.*

**Leonardo da Vinci how he came to invent the helicopter, while Krystina (aged 9) wanted to ask Henry VIII why he was so cruel to his wives.**

*Norman Housley*

## HISTORY

The prize for the best entry in the History Department's Open Day Competition, a £30 book token, was split between Phillip and Krystina Doughty from Thurnby.

Competitors were asked to name the historical personality they would most like to have met, and to suggest a question they would have asked him or her. Phillip (aged 11) wanted to ask

terms than direct harm. For example, children may be at risk from witnessing physical violence between parents although they are not themselves being assaulted.

This study will provide guidance for policy makers and practitioners

on the impact of parents' problems on the children. The results will be widely disseminated nationally in collaboration with the Social Services Inspectorate.

*Malayne Bowler*

## GROUND-BREAKING DISCOVERIES BY UNIVERSITY ARCHAEOLOGISTS

**LEICESTER UNIVERSITY  
ARCHAEOLOGISTS HAVE UNEARTHED  
SOME OF THE MOST SIGNIFICANT  
FINDS IN THE COUNTY'S HISTORY.  
SPECIAL SPOTLIGHT REPORT  
BY JUDITH SHAW.**

**A** NEW University service which works with the cooperation of developers in the uncovering of archaeological sites of major interest, is causing a stir over its unearthing of some of the most spectacular finds ever made in Leicestershire.

ULAS (University of Leicester Archaeological Services), the professional arm of the University's School of Archaeological Studies, was created just over a year ago and in that short time has made some of the most fascinating county discoveries of recent decades.

The day-to-day work of running the Unit is carried out by Richard Buckley and Patrick Clay. Teamwork with developers has quickly brought about some exceptional results and endorsed the School's very high research reputation which resulted in an award of a grade 5 in the recent national Research Assessment Exercise.

Under the leadership of Professor Graeme Barker, Head of the School of Archaeological Studies, ULAS has forged excellent working relations with the local authorities concerned with the management of the archaeology of the region, and with the major local employers who have funded its archaeological researches in the path of development.

There have been some remarkable discoveries which have made important contributions to the knowledge of the region's history from earliest times to the industrial revolution.

**T**HE School has strengthened its commitment to the region's archaeology, and promoted the public's understanding and appreciation of its importance.

"The archaeology of the Midlands is as undersung as so many other aspects of Midlands life and culture, yet we have on our doorstep some of the finest and most exciting archaeological landscapes anywhere in the UK," says Professor Barker.

"The academic staff have expertise, and international reputations; the School is

recognised worldwide for its training programmes and research activities in landscape archaeology, environmental archaeology and historical archaeology. Fieldwork includes a variety of excavation and survey projects in the Midlands, at several other locations in Britain and in France, Spain, Italy, Greece, Moldova, Sarawak, Libya and Jordan.

"The School has always had a strong commitment to the study of the archaeology of the Midlands, and of Leicestershire in particular," explains Professor Barker.

"In recent years, our programme has included surveys and excavations in collaboration with Leicestershire County Council's Museums

academic resources and laboratory facilities to provide a service of the highest quality."

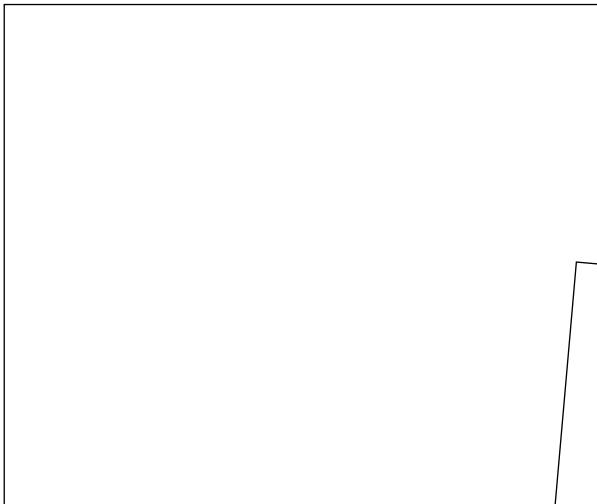
During its first year of operation, most of the 144 projects undertaken by ULAS have directly resulted from conditions placed on development as part of the planning process, or in anticipation of such conditions in the case of pre-planning enquiries.

The projects range from watching briefs, desk-based assessments, evaluations, consultancies, surveys, post-excavation analyses, standing building surveys, excavations to post-excavation

assessments.

Richard Buckley and Patrick Clay, assistant directors of ULAS explain that enshrined within the process is a straightforward principle - covering both archaeological and environmental considerations - that a developer must provide evidence of what, if anything, will be affected by this development, and measures he will undertake to mitigate any damage.

'Development' is taken to mean anything from road schemes, opencast mines, pipelines and structures to demolition or alterations to standing buildings.



**UNDER SCRUTINY:** ULAS finds.

Service, and specialist work in archaeological science, for example, with animal bones, plants, seeds and human bones.

"The strength of ULAS is that it is embedded in a leading department of archaeology," said Professor Barker.

"An archaeological excavation is by definition destructive and non-repeatable; also it is not some kind of giant vacuum-cleaner, which will suck up all 'the facts' from the site no matter how skilled or unskilled the operator.

"In other words, the questions asked about the site by the excavator determine the methods used to excavate it, and the methods used will determine the kind of evidence collected, and the conclusions reached about the site.

"So there is an inextricable link between theory and practice in all field archaeology, and in this vital respect ULAS can draw on excellent

**ULAS has been involved in the following major projects:**

- A pipeline project saw ULAS working with Anglian Water in the Wing to Whatborough section where Iron Age and Roman period settlement was found. Round houses were found which may date from the early first millennium BC and another rare piece of archaeology was a pit of possible Mesolithic date.

Field officers Matthew Beamish and Lynden Cooper said that the greatest excitement on the site was an in situ flint knapping area of probably Late Upper Palaeolithic date (after the end of the last Ice Age, between about 10-12,000 BC)

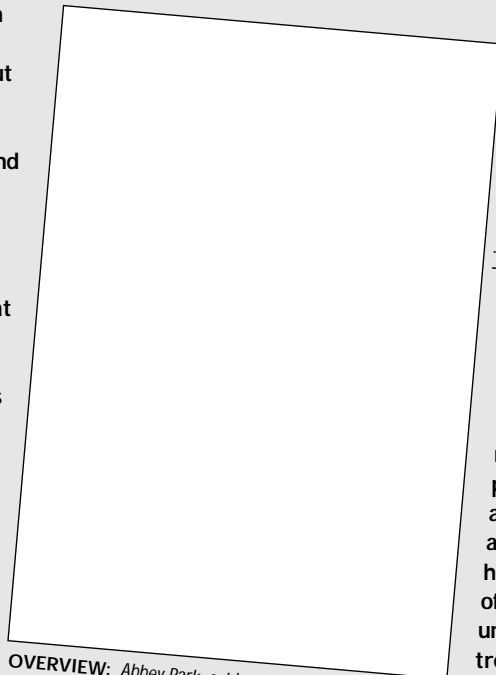
## ABBNEY PARK - A NEW SURVEY AIDS DEVELOPMENT

AN archaeological assessment and survey of Leicester Abbey has recently been undertaken by University of Leicester Archaeological Services on behalf of Leicester City Council to assist them with their Abbey Park Restoration and Development Project. The work was concentrated in the Abbey Grounds, to the west of the River Soar, which contain the excavated plan of the medieval abbey, one of the wealthiest Augustinian houses in the country, together with the ruins of Cavendish House, a 16th - 17th century mansion.

Results show that a northern enclosure of stone walls, gatehouse and towers contained the abbey buildings and perhaps date from as early as the 13th century. The southern enclosure,

probably late 15th -16th century, includes the nationally important (but little known) Abbot Penny's wall of about 1500. This is of brick, and bears diaper patterns including heraldic and other devices in contrasting blue brick. The survey indicates that Cavendish House was built, with pseudo military features such as arrowslits, presumably to enhance the 'romantic ruins'.

The survey of Cavendish House has indicated that rather more of the shell of this mansion survives than hitherto supposed, and has confirmed that it probably incorporated



OVERVIEW: Abbey Park, subject of a ULAS survey.

the remains of the main abbey gatehouse when it was built in the late 16th century, probably by the Hastings family.

The project has not only provided good background information for planning future interpretation of the site, but also essential data for the conservation, maintenance and preservation of both above and below-ground archaeology on site. It is hoped that a further phase of fieldwork may be undertaken involving trial trenching to clarify the plan of the abbey buildings and Cavendish House.

Leicester City Council

located on boulder clay at the extreme west of the ironstone ridge.

- A Bronze Age burnt mound, at Watermead Country Park, Birstall.

Excavations by ULAS at a gravel excavation quarry in Birstall followed the discovery of two human skulls by wardens in the Watermead Country Park, along the River Soar.

Funded by English Heritage and Ennemix Construction Materials, the ULAS team led by Susan Ripper uncovered part of an ancient bridge or landing stage which had extended across the quarry. The bridge appeared to be crossing a peat-filled channel, perhaps an old course of the River Soar.

THE next discovery was the remains of cooking activity, known as a burnt mound. This consisted of a stone lined hearth; a circular trough with its base lined with timber planks and consolidated sides; another smaller, charcoal-filled pit; a ditch; a gully and a large spread of fire-cracked flints and ash.

- An Iron Age enclosure at Leicester Lane, Enderby. Centre 21 Ltd, with the co-operation of their contractors Barton Plant Ltd., funded work on an Iron Age enclosure at Leicester Lane, Enderby. Excavation led by Jim Meek revealed an enclosure measuring about 1.89 hectares. This work, together with earlier excavations, shows that there was extensive Iron Age settlement in this area of the Soar Valley. The value of the

discoveries highlights the transition from unenclosed to enclosed settlement types and a move to the period of the Later Iron Age.

Importantly, fourteen circular buildings in the area have now been recorded providing the largest sample of Iron Age structures from Leicestershire and including some of the largest examples from Britain.

**'A skeleton was found with its arms folded across its body. Analysis later showed that the bones were that of a young man.'**

- Iron Age and Roman Occupation at Gartree Road, Oadby.

The site for the new University playing fields in Oadby which lies adjacent to the major Roman road to Colchester (known locally as Gartree Road) had already revealed artifacts such as fourteen coins of first to fourth century date, three brooches, a bronze votive axe and a bracelet close to a pond along the northern boundary of the field.

A burial vessel was found of the late first to second century AD which was associated with a human burial. A skeleton was found with its arms folded across its body. Analysis later showed that the bones were that of a young man and the vessel had probably been deposited with the burial. Two Roman buildings were discovered. This work was supervised by Susan

Ripper.

By excavating the University playing fields development a range of unexpected archaeological discoveries was produced. These indicated that there was settlement from the late Iron Age to the Roman times.

- Bronze Age burials and Anglo-Saxon settlement at Eye Kettleby near Melton Mowbray.

A LARGE excavation was undertaken by ULAS last autumn of a major site adjacent to the deserted medieval village of Eye Kettleby in advance of redevelopment. It was directed by Neil Finn and funded by Wilson Bowden Properties and Samworth Brothers Ltd. The earliest occupation consisted of ceremonial enclosures of Bronze Age date with over 70 cremation burials, some of which were in large pottery urns. Evidence was also uncovered of an Iron Age boundary, marked by pits and a ditch, a metal road - possibly Roman - and an extensive Anglo-Saxon settlement of the 5th - 8th centuries AD. The latter included evidence of a large number of timber halls, sunken featured buildings (probably used as weaving sheds), enclosures and hearths. Settlements such as this are rare finds indeed, and of national importance, but the site is also exceptional in that it was possible to chart the changing landscape for a large area over a period of nearly 300 years - from the Bronze Age to medieval periods.

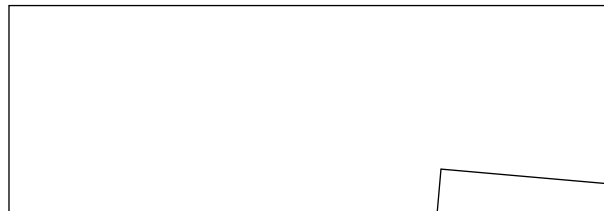
## STEPS IN TIME

In the University's Jubilee Year, two anniversary subjects (Geography and French) and two different perspectives (from a Professor and a former student) are recorded here...

### 75TH ANNIVERSARY OF GEOGRAPHY

AS it was in the beginning...

Geography was one of the first disciplines offered by the new University College with Miss Gladys Sarson, a local grammar school teacher, being responsible for the teaching on a part-time basis. The following year P W Bryan, a graduate of LSE, was appointed as a full-time lecturer. For the next thirty years Geography at Leicester was synonymous with Pat Bryan. Besides being head of department, he was Vice-Principal for over twenty years and chairman of numerous Boards. Even so, he found time to make scholarly contributions. In 1924 he was awarded a doctorate by the University of London, one of the first awarded by a British university. His thesis was published in the same year as part of a book, *North America*, written with L L Rodwell Jones, which remained in print until 1968. This was followed in 1933 by *Man's Adaptation of Nature: Studies in Cultural Landscape*, a magnum opus which was



The Geography department in 1951: P W Bryan (in the middle of the front row) Roy Millward (on his right) and Joe Jennings (on his left). Terry Garfield is standing to the right in the third row.

conceptually far ahead of its time.

These early years were ones of intense struggle, with Bryan and Sarson teaching the entire syllabus. Between 1926 and 1939 only fifteen students graduated in Geography, the first being Walter Baker in 1926. Accommodation was limited to a lecture room and a practical room which contained some surveying equipment and a few maps. With the recognition of the University College by the UGC in 1946 new staff and resources became available, one of the first additions being a young technician, Terry Garfield, who was to

be a stalwart of the department until retirement in 1992.

By 1950, there were four new lecturers, Charles Fisher, Joe Jennings, Roy Millward, and Clifford Smith, all of whom

were to make significant contributions to the discipline. Even so, the number of graduates during the fifties rarely exceeded 20 annually. Upon Bryan's retirement in 1954, Norman Pye was appointed head of department. The most striking feature of Professor Pye's era was to be the

transformation of this tiny department, geared to London University examinations, into the major research and teaching department which he handed over, on his retirement in 1979, to Professor John Paterson.

Professor Gareth Lewis

### 75TH ANNIVERSARY OF FRENCH TEACHING AT LEICESTER

UNDERGRADUATE memories...

The autumn of 1949 saw the transformation of 21041157 Sergeant Youngs M A (Intelligence Corps) into Michael Youngs (undergraduate, University College Leicester). This process was somewhat haphazard, since UCCA had yet to be invented, and attempts to be accepted at Oxford and London had been a failure. My picture of university life was based on a few films and an article in *Picture Post* - of absent-minded professors and languid students in punts. I really had no idea about higher education, and it was at the suggestion of a family friend that I applied at the last minute to this, to me, unknown college (student numbers about 850) in Leicester.

The reality of a degree course in French dawned when I was interviewed, just a few days before the Autumn term began, by the Head of Department, Professor Sykes, an unexpectedly young and intimidatingly tall no-nonsense person who proceeded to pose some searching questions which exposed the extent of my

ignorance and optimism in applying to read French at Leicester.

In the event, I was offered a place on the Honours course leading to a University of London External Degree (whatever that was) and within a week I was found lodgings in Wigston and was cycling along Welford Road on the first day of four of the most important years of my life. At the outset of the course, 21 hopeful First Years were told that what we had embarked upon was a serious venture, and that, if we were not up to scratch at the end of the first year, we would be dropped from the Honours course. I felt better when I realised that a large proportion of students were ex-service men and even more reassured to learn that Professor Sykes and another lecturer, Dr Hemmings, had both been in the Intelligence Corps.

Somehow, I made the grade, and the second year passed quite uneventfully. Year 3 was spent in France. Then the final year - or rather the year of Finals. Amazing how impending exams can concentrate the mind! During these last few months we finalists

closed ranks, drawn together by the intensity of our shared experience, encouraged and inspired by the staff, whom we had come to know and respect. Eventually, it was all over and at a farewell dinner at the Bell Hotel we ate, drank and talked too much - and Professor Sykes played *Three Blind Mice* on the piano.

Over 40 years later, what remains from those years? We had the opportunity to stand back from life and look at it with a critical eye. We learned to appreciate the perspective offered by the history of a language and to comprehend the necessity of clarity and precision in communication. Through our texts we saw how, over the centuries, mankind's delights and dilemmas come in various guises.

I treasure personal memories: autumn leaves in University Road, explication de texte with Professor Sykes, teaching us to look *into* and *out from* the written word; historical phonetics with Mr Rasmussen (I recall the not-so-familiar song: 'Old Rasmussen had a farm, A, E, I, O, U; And on that



MICHAEL YOUNGS (STUDENT): In France in Year 3.

farm he had some vowels, A, E, I, O, U; With a dipthong here and a dipthong there; here a yod, there a yod, everywhere, etc...'). In addition, Dr Hampton introduced us to the incomparable Voltaire against a background of excited shrieks of the ladies playing bowls in Victoria Park, and there was French conversation with the delectable Mlle Bleynie. One year we took part in Dr Hemmings' production of *Antigone* (the start I think of a tradition of French plays which is still carried on today).

Happy times, rewarding times, times for which so many of us are truly grateful.

Dr Michael Youngs,  
(BA French 1949-1953)

## MAKING HISTORY

FOR the Department of History, 1996-97 is also a Jubilee Year marking a 75th anniversary. David Johnson recalls events and personalities within the Department through the years...

**T**HIS year the Department of History celebrates 75 years of History teaching at Leicester University and the fiftieth anniversary last December of the appointment of its first professor and head of department, Jack Simmons. This was an outside appointment and, like that of his life-long friend and colleague, Arthur Humphreys, to the chair of English the following day, was greeted with dismay amongst the students, who promptly absented themselves from classes and examinations out of loyalty to the claims of the existing lecturers in charge. Principal Attenborough did not share this view; he told Humphreys that on the day before his interview on a snowy postwar winter day in 1946 'the college had made a stunningly good appointment in the person of a promising young historian named Jack Simmons'.

Recollecting this, Humphreys added, 'How right he was!' History teaching at Leicester started in the first year of the fledgling college, when Principal Rattray gave informal lessons to students, including Rhoda Bennett (Librarian, 1932-1961). The first permanent appointment as

Lecturer in History went in 1922 to F W Buckler, a local man educated at Wyggeston Boys' School and Cambridge. He was succeeded in 1925 by G R Potter, and in 1928 by George Eugene Fasnacht, an Oxonian who was 'introspective... and ranged in a formal and depressingly dull voice over everything'. Fasnacht disapproved of the London BA General degree (the forerunner of Combined Studies), remarking drily that 'pass students know that there was an industrial revolution; honours students that there was not'. In 1932 he was joined by the young Rosalind Hill, who inspired J H Plumb, later Professor of History and Master of Christ's College Cambridge. She was, he wrote later, 'nervous, fluttered her papers...and went pink-cheeked with terror, yet she managed to bring the medieval world alive'. 'Jack' Plumb's alpha plus essays daunted his fellow history students, and he went on to get a first in 1933. Rosalind Hill left in 1937 for Westfield College, where she later became a much-loved Professor, retiring in 1976. She died last November.

Jack Simmons' arrival in 1947 marked the beginning of a new era. He served as Head of

Department for 21 years; by 1952 there were five academic members of staff, and when he retired in 1975 there were 12. His scholarship and research interests - embracing higher education, the history of Leicester, imperial history, transport history and Victorian Britain - were uncommonly wide even for those catholic days, and he published definitively in all of them. This breadth was reflected in his early appointments to the department: a post in Economic History in 1952, in British Archaeology in 1957 and in American History in 1965. In

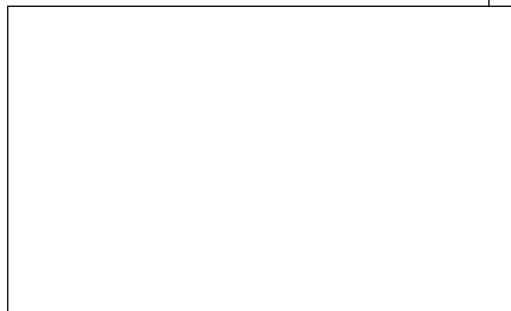
romance soon blossomed; the cine film of Rupert and Babette Evans' wedding is still the nearest thing to a departmental video. Many gave long service - the combined tally for Jack, Rupert, Babette, Geoffrey Martin and Aubrey Newman (who came in 1959) is 163 years! But Jack was also very much a university man. He was one of the progenitors of our University Press and Bookshop, and was a strong supporter of University music. He became the University's Historian with the publication of *New University* in 1958, served as Pro-Vice-Chancellor from 1960-63, and as Acting Vice-Chancellor for eight months during the 1961/2 session after Charles Wilson left Leicester for Glasgow.

What of the modern Department? Babette Evans had already made history by becoming in 1973 the first woman head of department in the university. Among its professors, John McManners left to be Regius Professor of Ecclesiastical History at Oxford, Geoffrey Martin to become Keeper of Public Records, and Geoffrey Warner for the Open University. Talented scholars came and went; in European History alone the list reads like a roll call of stars -

Olwen Hufton, Alisdair Duke, Peter Jones, Michael Biddiss, Jonathan Osmond. The department survived the vicissitudes of the '80s to emerge, with help from two Historians of Science (who arrived from Astronomy in 1986) and three colleagues from Loughborough (whose History department was closed in 1988) to reach a total of 17 staff.

Outline courses were dropped in 1979 in favour of options, but the General

Paper survived until 1981 (uniquely including a rhyming question for the Queen's Jubilee in 1977 - and receiving an answer in verse!). Dissertations were adopted in 1983. Joint degrees with Politics and Economic History started in 1980; with Archaeology in 1989. Since then the department has adapted to the new world of Graduate Schools and Research Centres. It has embraced Computing with the enthusiasm it once reserved for Political Thought. It has rediscovered Industrial Archaeology. It has been devolved, assessed and modularised. Yet with undergraduate modules ranging in 1996 from Bede and The Vikings through Spanish American, Russian and Irish History to the Holocaust and the Atom Bomb, the Department is surely living up to the breadth of its traditions, in good shape to face the challenges of the next 75 years.



**FOUNDING PROFESSOR:** *Jack Simmons, Professor of History (1947-75) and Head of Department (1947-68)*

**HISTORY STAFF AND GRADUATES 1952:** *Staff (seated, left to right) Mr Rupert Evans, Dr Babette Evans, Professor Jack Simmons, Mr Norman Scarfe. Students include (third from left) Donald English, later President of the Methodist Conference.*



**CELEBRATING ANNIVERSARIES (DECEMBER 1996):** *(standing) Professor Bill Brock (current Head of Department).*

those days the department taught the whole of English and European History and the History of Political Thought, and final examinations included the unseen, and unprepared for, General Paper. University status in 1957 brought no change to the History syllabus; London courses simply became Leicester courses.

**B**EFORE long however the Department was to bid farewell to some of its progeny: Economic History (whose other parent was Economics) found a new home in 1964 under Ralph Davis in the Faculty of the Social Sciences, and Archaeology gained independence under Charles Thomas in 1967. American History was to stay, providing (with English) a Combined Arts course from 1967, the forerunner of the Single Subject Degree introduced in 1994.

Jack was first and foremost a departmental man. He nurtured his early staff so well that

## ARTS AND ENTERTAINMENTS IN THE REGION

by Dr Sophie Oosterwijk (History of Art Department)

'*Svmer is icumen in ...*' and with it sunshine, flowers and exams. When many of us will be setting, sitting or marking exams rather than picking daisies, is it fair to draw attention to more temptations away from the necessary hard work? Well ...

Depending on how much time you have to spend, you could choose **Two Weeks with the Queen**, a bittersweet comedy about families, friends and mortality in the Studio of the Haymarket (15-24 May). Or if you are in a real hurry there is **The Bible: The Complete Word of God (abridged)** by the Reduced Shakespeare Company, offering the whole story from Fig Leaves to Final Judgement in just 90 minutes (Haymarket, 27-31 May).

Students facing their English lit. exams may find the perfect excuse for an evening out at the Theatre

Royal in Nottingham, which first of all shows **Hard Times**, an adaptation of Charles Dickens' novel about power, politics and unrequited love in industrial Victorian England (12-17 May). Then there is Alan Bennett's first play **Forty Years On**, originally produced in 1968, in which schoolboys and teachers present an end-of-term revue that does not quite go according to plan, starring Tony Britton, Tony Robinson and Christopher Timothy (27-31 May). And, finally, you could watch Penelope Keith in **Mrs Warren's Profession**, George Bernard Shaw's turn-of-the-century comedy about an ambitious young woman with a Cambridge scholarship who finds out how her mother has managed to finance her education (2-7

June). Families with children may enjoy **Woof!**, the story of a boy who changes into a Norfolk terrier (20-24 May).

A visit to Stratford will also be essential for those who need to brush up their English drama as it offers plenty of choice ranging from the medieval morality play

**CLASSIC ADAPTATION:** *Charles Dickens' Hard Times at Nottingham's Theatre Royal*

**Everyman** (The Other Place) to Thomas Kyd's bloody revenge play **The Spanish Tragedy** (The Swan) and, of course, plenty of Shakespeare; just check the Spring/Summer programme or phone the box office (01789 295623).

If you are feeling nostalgic, you may still be in time to catch **Elvis: The Musical** at the Theatre Royal in Nottingham (5-10 May) but if you missed it, you might consider **The Solid Silver 60s Show** with names from the past like Peter Noone, Gerry & the Pacemakers, Dave Berry and Wayne Fontana & the Mindbenders (Royal Concert Hall, Nottingham, on 27 May; De Montfort Hall, Leicester, on 28 May). The Haymarket hosts **The Spectacular World of the**

# ARTSTOP

**Musicals**, a show in aid of the Glenfield Hospital, NHS Trust, Breast Care Appeal (Sunday 11 May). **Grease** is still running at the Alexandra Theatre in Birmingham until 19 July or you could go and see the great Broadway musical **A Chorus Line** starring Adam Faith at the Hippodrome in Birmingham (12-24 May). In Leicester again, the De Montfort Hall will be visited by the musical **42nd Street** (19-24 May), described as 'exuberant, electrifying, energetic!' So who would want to miss that?

On a slightly more classical note, there is **Music for a May Night** at the Fraser Noble Building in Leicester (14 May). At the De Montfort Hall the Leicester Philharmonic Choir presents **A Night at the Opera** with items from, among others, *La Bohème*, *Aida*, *Rigoletto* and *Carmen* (10 May). Not to be forgotten is the **Leicester Early Music Festival** (18 May - 7 June) with concerts, workshops, dancing, duels, and even a ghost

walk described as 'almost musical' around Castle Park (23 May); please check the special leaflet for details or phone the Festival Office (mornings) on 270 9984.

Finally, there is lots to choose from at the Phoenix, from film (five chances in May to see **The English Patient**, in case you missed it somehow) as well as **Fragments**, a series of events showcasing new work by up-and-coming professional artists (21-23 May). And should the exams have left you in a particularly aggressive frame of mind, you could try a taste of **Jo Brand**, billed as 'a carbuncle on the hard-earned face of feminism' (Royal Centre, Nottingham, on 25 May; Symphony Hall, Birmingham, on 29 May).

So will it be sunshine, entertainment or exams? The choice is yours!

## WHAT THE PAPERS SAY

Hundreds of cuttings pour into the Press Office at Leicester University from around the world chronicling the activities of staff and students. DR BRIN COOKE, Department of Physics and Astronomy reviews a selection of cuttings from recent weeks.

ON LOOKING through recent press cuttings, I was quickly reminded of a game we used to play when at Scout camp. In this game the players were each presented with a short list of disparate objects (I recall, with no pleasure, objects like 'a biscuit tin' and 'the Vicar's bicycle') and were then required to construct a story which involved these objects in an interesting way!

A convenient starting point for this 'story' is in Rutland and its welcome return as a county adjacent to Leicestershire. The report in the *Times* quotes the great W.G. Hoskins, who was Professor of English Local History at Leicester, as writing "At each tree-lined road leading into the county, there should be a sign saying: 'The rat race ends here.'" Of course, the

implication is that there are places where the rat race actually starts. Inhabitants of these unhappy places will suffer from overwork and insomnia and must surely benefit from the work of Leicester University researchers who find that Lavender Oil seems to work as well as prescription sleeping pills! (widely reported in USA papers, among them the *Wausau Gazette* and *Atoka County Times*).

The benefits to be gained from an understanding of science are one of the themes of Leicester University's bid for the National Space Science Centre and also an important feature of

the work of Leicester University's School of Education. The work of Tina Jarvis and Frankie McKeon (Director and Deputy Director of the SCI centre, which was opened in 1996) is reported in *Child Education* and they want children to think of science as "exciting, relevant and something they can do". Laurence Rogers of the School of Education is aiding the 'doing' bit with his *Insight* data logging software package reported in *The Times Educational Supplement* which is designed to "encourage pupils to explore and think about experimental data."

It was unhappy science news for Professor Stan Cowley of the Department of Physics and Astronomy when he learned of the loss of years of research work when the four Cluster

satellites, launched on the untried Ariane V some nine months ago, were destroyed. Now it is reported in the *Times Higher Educational Supplement* that the European Space Agency may be able to add three new satellites to the revamped original spare satellite and launch this fresh version of Cluster on two Russian launchers. The Cluster experiment was intended to provide "a unique four-dimensional look at the boundary between the earth's magnetosphere and the solar winds."

Professor Cowley is a newcomer to Leicester University (from Imperial College, London). We hope he will come to agree with the glowing testimonial to Leicester given by "five contented students" who wrote to the

*Leicester Mercury*. In their experience, Leicester is "a place with a friendly populace, a good mix of ethnic cultures and a plethora of beautiful recreational areas and entertainment facilities". Presumably these facilities include plenty of opportunities to practise dancing

since the *Leicester Mercury* also reports the convincing success of Jane Evans and Julian Halliday, two Leicester University undergraduates, who waltzed away from the national finals of the Inter-University Dance Competition with four awards including being top of the Rock and Roll section.

## THE SOCIAL PSYCHOLOGY OF MUSIC

Edited by David J Hargreaves (Department of Psychology) & Adrian C North (Department of Psychology)

Oxford University Press, May 1997, £19.95 (paperback), £45.00 (hardback)

Available from the Bookshop

The social contexts in which people create, perform, perceive, understand and react to music have been neglected by psychologists. This book provides an authoritative, up-to-date and comprehensive guide to the social psychology of music. It represents the first attempt to define the field since Farnsworth's book of the same title published in 1969, including the new areas of medicine, marketing, and education in which social psychology of music has direct application in the real world.

**'The topic has important applications to and implications for other academic and applied issues'**

After an opening review chapter, the remaining 14 chapters are divided into 6 sections: individual differences; social groups and situations; social and cultural influences; developmental issues; musicianship; real world applications. Several of these chapters are ground-breaking reviews published for the first time.

**'Reflects the trend in psychology generally towards more consideration of cultural processes'**

Aside from psychologists and music educators, The Social Psychology of Music will appeal to musicians, communications researchers, broadcasters, and commercial companies.

## SCIENCE IN THE MAKING

**Volume 2: 1850-1900: Scientific Development as Chronocled by Historic Papers in the Philosophical Magazine - with commentaries and illustrations**  
 Edited by Professor E A Davis (Department of Physics & Astronomy), with a Foreword by Professor William H Brock (Department of History)  
 Taylor & Francis, March 1997, £59.95

Available from the Bookshop

This is the second of four planned volumes covering the history of scientific development as reflected in the papers in the Philosophical Magazine. The second half of the nineteenth century was a period of unparalleled advances in physics, culminating in the discovery of X-rays, radioactivity and the electron. Many of the papers are classics, by scientists such as Kelvin, Clausius, Rayleigh, Foucault, Bunsen, Maxwell and JJ Thomson. Informative commentaries precede each of the six parts and the volume contains illustrations of historic apparatus and photographs of celebrated scientists of the period.

**'Anyone with an interest in the history of science will want access to these four volumes'**  
 (New Scientist)

## J J THOMSON AND THE DISCOVERY OF THE ELECTRON

by Professor E A Davis (Department of Physics & Astronomy) and Dr Isobel Falconer  
 Taylor & Francis, May 1997, £16.95 (paperback), £45.00 (hardback)

Available from the Bookshop

1997 sees the centenary of one of the most important moments in modern physics - the discovery of the electron. This volume maps the life and achievements of JJ Thomson, with particular focus on his ideas and experiments leading to the landmark discovery. A foreword by Thomson's grandson provides valuable insights into Thomson's personality, while the reproduction of original papers allows an appreciation of Thomson's own style and way of thinking.

The book describes

Thomson's early years and education. It then follows his career, first in Cambridge as a fellow of Trinity, later as the head of the Cavendish Laboratory, and finally as Master of Trinity and national spokesman for science. The core of the book concerns the work undertaken at the Cavendish, culminating in the discovery of 'corpuscles', later named 'electrons'. The final two chapters describe the immediate aftermath and implications of the work, and include the creation of the subject of atomic physics as well as the broader long-term developments, from vacuum valves and the transistor through to the microelectronics revolution.

**'An accessible and carefully-researched historical survey of the discovery of the electron'**

**J J THOMSON:** *Before his discovery, the atom was thought to be indivisible.*

## NEW EDITION OF PROSPECTUS

The University's Undergraduate Prospectus (1998 entry) is now available. Contact Charlotte Timson in the Admissions Office on 5281 for copies of this latest edition.

# PEOPLE

## RETIREMENT

### BRIAN PEGG

Brian Pegg is to take early retirement on 31 May after 22 years' service with the University. He moved from Leicester City Transport in 1975 to join the University as Assistant Accountant, and progressed to his present post of Treasury Accountant in 1990. Throughout his career with the University, Brian has had responsibility for the Salaries and Wages function, and has overseen the implementation of two new computerised payroll systems. Brian has also had responsibility for providing VAT advice and for the day-to-day investment of the University's substantial cash balances. He has also acted as a Trustee of the University's Pension and Assurance Superannuation Scheme for 20 years.

Outside work, his interests include birdwatching and MG sports cars. Brian has requested that his departure should not be marked by a formal reception, but his friends and colleagues have contributed towards a farewell gift.

*Martin Wright*

## OBITUARIES

The University has learnt with regret the deaths of the following people:

### PROFESSOR SIR GEORGE MALCOLM BROWN

**Adrian Visiting Fellow of the Department of Geology from 1983-1985, died 27 March 1997**

Malcolm Brown had a distinguished career, initially at Oxford, working with Lawrence Wager on the colling and crystallisation of basaltic magmas. This work culminated in the publication in 1968 of a major reference work, *Layered Igneous Rocks*. After a short spell at the Carnegie Institution in Washington DC, he was appointed to a Chair at Durham, and, in 1979, he was made Director of what would become the British Geological Survey.

Malcolm was awarded an honorary DSc by this University in 1984. He gave the twenty-third Bennett Lecture in 1983, about the composition and evolution of the Moon, an aspect of his research which contributed to his being elected a Fellow of the Royal Society in 1975. He encouraged links with the BGS, which included a series of lectures given by BGS staff in the Geology Department in 1984.

*Dr Andy Saunders*

### CONSTANCE MARIAN GRIERSON

**Former Warden of Hall, died 22 February 1997**

Marian Grierson was one of a pioneering group of seven founding Wardens of Halls at Leicester. Like new frontiersmen - and women, it was their task to form orderly residential communities, create 'an atmosphere conducive to study' out of a disparate collection of buildings old and new, and to meet the demands created by the heady growth of student

numbers, especially that attributed to the 'baby boom'.

From her native Liverpool, Miss Grierson went up to study at Girton, and, after an early career in teaching, became an HMI of Schools in

Norfolk and Suffolk. In 1960, she was appointed Warden of Clare Hall and also to a part-time lectureship in the Department of Classics. In an entertaining memoir in the 1983 Convocation Review, she wryly recorded that it was observed at the time of her appointment to the latter post that she 'lacked experience of difficult adolescents'.

However, basic needs, not psychology, came first. Wardens then had to take a very close interest in the buildings and their fabric. In one survey of her domain in the company of her Bursar, she displayed a truly Horatian ingenuity worthy of one who combined practicality with sweet delight (*qui muscui utile dulci*). Encountering a property over-run with brambles, the order for its clearance was not conveyed until they could finally emerge 'dirty and dishevelled' (her words) with sufficient fruit to keep Clare Hall in supplies of jam for the term.

A former Tutor in Clare Hall remembers how Marian's concern for the individual was practical and generous, noting that 'she drove an enormous old dormobile which dwarfed her tiny plump figure, and was inclined to shout, or boom, at you that the best thing for a writing block was a good slab of steak washed down by a bottle of red wine. And she would sweep you off to Leicester's best hotel, in her dust-covered dormobile, and lay it on the line just as she said'.

In these early days there was little resembling today's professional welfare and support system. A greater burden of care and vigilance fell on Wardens. She coped well with these demands; one recalls that affection and respect for her was widespread. Her hospitality, both private and public, including the by now legendary Clare Hall summer garden party, was never dull, and she was a cheerful raconteuse.

She retired in 1976 after a serious illness, to live with a group of friends from her Cambridge days. Although illnesses marred the quality of her life in retirement, courage and humour did not desert her. She died whilst visiting a former student and friend at Billingham, and her funeral took place there on 5 April.

Large as it was, her contribution to the well being of her part of the University community would simply defy assessment by today's measurements. A host of friends and former students will recall her with much affection and great gratitude.

*Tom Shearer*

### NICHOLAS D'A LAFFOLEY Honorary Visiting Fellow in the Department of Geology from 1986, died 1 April 1997

Nick d'A Laffoley was a graduate of Cambridge, and obtained an MSc in Mineral Exploration at the University of Leicester in 1983. He worked for the Leicestershire and Rutland Trust, the British Geological Survey at Keyworth, Lonrho and Ashanti Goldfields.

Since 1996, Nick was Vice-President (Exploration) for NEVSUN (Africa), based in Accra, Ghana. He was an energetic

researcher, and, since 1986, he collaborated and published with several members of the Geology Department in the fields of geochemistry and metallogenesis, statistics in mineral exploration, and geophysics in the British Isles and in Africa.

He was a most valued and dedicated teacher, and gave regular courses in resource estimation, exploration and field methods, and assisted in the supervision of MSc projects. He died while on duty in Ghana.

*Dr Andy Saunders*

## GRANTS FROM EXTERNAL SOURCES

### ANAESTHESIA

**Prof D J Rowbotham**

#### National review of pain services and standards for CSAG

The University Department of Anaesthesia in conjunction with the Department of Epidemiology & Public Health at the University of Manchester has been awarded the grant by the Clinical Standards Advisory Group at the Department of Health to investigate a report upon the provision of pain services in the United Kingdom. The speciality of pain management is relatively new and the provision and standard of pain services in the United Kingdom varies considerably. This project will investigate these services both in the hospital and the community. The data will enable the Secretary of State for Health to make informed decisions on pain services throughout the NHS.

£ 84,453 CSAG via University of Manchester

### ARCHAEOLOGY

**Prof G W Barker**

#### Urban Hinterlands

The Urban Hinterlands project explores current models of town-country relationships in England from ca AD1 to AD 1500. It aims to develop regional and national frameworks of study, and to promote improved methods of data recovery, to enable better use of available and future data in building and testing models. The project brings together a wide data set, consisting of urban excavations, rural landscape surveys, and small-scale excavations, to compile a detailed study of settlement dynamics. These are explored through detailed comparisons of archaeological assemblages, looking at variation in production, consumption and display on a wide range of sites. Analyses will concentrate on pottery, bone and coin, though will review the potential for a wider range of archaeological material. Eight case-studies will be used to test these models, and will include the use of GIS.

£ 17,766 English Heritage via AOC Archaeology Ltd

**Dr N J Saunders**

#### Site inventory in Southwestern Trinidad

Trinidad possesses the most significant archaeological record in the Caribbean. Located at the geographical and cultural boundary between South America and the Caribbean, it was a strategic gateway through which all Amerindian peoples entered the region. Southwest Trinidad is particularly rich, having yielded the earliest human remains in the region (the 8,000 year old 'Banwari Skeleton'), and possessing also a wealth of later prehistoric sites, which represent the

first appearance of pottery-making, agricultural village-based societies around 200 BC. The inventory charts the multi-cultural origins and developing adaptations of indigenous Amerindians societies to an island-based tropical rainforest environment; it is also a crucial step in assessing the area's potential for future problem-oriented investigations, and for precipitating the enactment of pending heritage legislation. Specific aims include site location (GPS), surface collections. Sample excavation, analysis of material remains, and site registration and classification.

£ 9,450 Leverhulme Trust

### BIOCHEMISTRY

**Prof G C K Roberts Dr P M Kilby**

#### Study of the structure and interactions of neural and glial growth factors - Research Career Development Fellowship

£ 240,227 Wellcome Trust

### BIOCHEMISTRY (NMR CENTRE) (WITH UMIST)

**Dr L Y Lian**

#### The structural basis for antigenic variation in Neisseria Meningitidis

The antigenic variability of cell-surface proteins is a widespread phenomenon in disease-causing organisms as diverse as the neisseria, the malaria parasite Plasmodium and the African Trypanosomes. The variability of cell-surface components makes it difficult to design effective vaccines against many pathogens. In the present studies, we shall concentrate on the class 1 outer membrane protein (Por A) from Neisseria meningitidis, and organism which is the major cause of bacterial meningitis and septicaemia worldwide and accounts for 50% of the meningitis cases in the UK. The aims of the project are to investigate the structural basis for immune recognition of the Por A protein by determination of the structures of selected peptide antigens by NMR in complex with antibodies. We hope to identify the common structural features of antigens from different serotype variants of Por A and to use this knowledge to predict the structures of new variants. Such knowledge is also a prerequisite for a rational approach to the design of new vaccines and drugs that takes account of the innate diversity of the targets.

£ 110,980 Wellcome Trust

### CHEMISTRY

**Dr P R Jenkins**

#### Grant in Aid of Research

£ 2,000 Merck Sharp & Dohme

### CHILD HEALTH

**Dr C O'Callaghan**

#### Panda clinical study

£ 7,200 (supp) ML Laboratories

**Prof M Silverman**

#### Randomised controlled trial of self-management of childhood asthma

£ 7,654 (supp) Glaxo R & D Ltd

### EDUCATION

**Dr J Underwood**

#### ESRC Centre for the study of instruction, training and learning

£ 24,820 (supp) ESRC via University of Nottingham

### ENGINEERING

**Prof A C F Cocks**

#### Cyclic thermal loading of ceramic matrix composites

£ 1,688 EPSRC

**Prof N B Jones**

**Dr S K Spurgeon**

**Dr M J Pont**

#### Diagnostics and control in diesel powered systems

£ 189,155 EPSRC

**Prof N B Jones**

**Dr S K Spurgeon**

**Dr M J Pont**

#### Diagnostics and control in diesel powered systems - Studentship

£ 40,000 Perkins Technology Ltd

**Prof I Postlethwaite**

#### Study of robust control techniques to the guidance loop (1996)

£ 5,000 BAe Defence Ltd (Dynamics)

### EPIDEMIOLOGY & PUBLIC HEALTH

**Dr S Ablett**

**Mrs Hibbert**

**Mr J Imeson**

#### Clinical database development within the UKCCSG Data Centre

The UKCCSG Data Centre is involved in handling large amounts of data relating to children registered with the UKCCSG as having childhood cancer and also those children who are treated on some of the many clinical trials run by the Group. An effective and efficient computing system is paramount to the successful handling and processing of this data. A detailed review of the computing needs of the Data Centre was carried out and the current grant will fund the implementation of the recommendations within that report. This will involve the streamlining of the current system as well as the addition of capacity for handling an increasingly complex and large amount of data. It is intended that the revision of the UKCCSG computing system will be complete by the Summer 1998.

£ 11,100 NHS Executive Trent

**Dr C Bailey**

#### UKCCSG primitive neuroectodermal tumours trial III

A six month extension has been received from the Cancer Research Campaign to

enable the UKCCSG to continue with the study to try and determine whether an intensive chemotherapeutic model given after surgery and before radiotherapy will improve disease free survival in this condition. After tumour removal children with biopsy proven PNET aged 3-15 will be randomly assigned either to immediate radiotherapy or to chemotherapy followed by radiotherapy.

Patients have been entered from the UK and a number of countries throughout Europe. It is hoped by this study to demonstrate an improvement into disease free survival from the present 60%.

An area of concern to Radiotherapists was the potential delay in delivering radiotherapy caused by the insertion of intensive chemotherapy pulse before radiotherapy. The average delay to date is 100 days. No patient has been shown to have tumour progression in this interval.

£ 16,466 (supp) Cancer Research Campaign

**Prof M Clarke**

#### Research Information Officer

£ 40,000 NHS Executive Trent

**Prof G Parker**

#### Population forecasting for long term care needs in old age: A programme for secondary analysis

The purpose of the study is to develop a model of older people's risk for long-term care, through analysis of existing national and local data sets. This will give commissioners and purchasers of community health and social services better indicators than are currently available of the impact of changing demographic, social and health factors on the future need for services. The research will use information from local and national studies to measure the risk for the need for long-term care. These figures will then be applied to area and national statistics from the 1991 census and to population projections to estimate the numbers of older people who will need long-term care over the next twenty years or so.

£ 141,072 Department of Health

### GENERAL PRACTICE & PRIMARY HEALTH CARE

**Dr R Baker**

**Prof R C Fraser**

**Prof J Jones**

#### A randomised controlled trial of the effectiveness of prioritised audit criteria in implementing change

The Lilly Audit Centre in the Department of General Practice & Primary Health Care has developed a new, systematic method for identifying audit criteria. These are statements which are used to assess the appropriateness of decisions about diagnosis, treatment or other aspects of care made by health professionals. Criteria of this type have been made

# RESEARCH

available throughout the country to primary health care teams, and there is preliminary evidence to suggest that their use leads to improvements in care.

The aim of this study is to confirm whether the criteria are effective. 81 general practices will take part, and the care of their patients with either asthma or angina will be investigated. One group of practices will receive traditional guidelines about the care of these conditions, another group will receive the criteria, and the third group will receive the criteria plus information about their own performance. We will be collecting information about care from clinical records and questionnaires sent to patients. If the criteria are effective, the records should show that the general practitioners' management of patients is more appropriate and that patients' symptoms are better controlled.

£ 279,589 NHS Executive N Thames

**Prof R C Fraser**

**Dr A Wilson**

## Focus for the promotion of research and development in primary care

The Trent Focus for the Research and Development in Primary Health Care was established in January 1995 with funding for an initial period of two years and this has now been extended for a further three years. The Focus consists of an alliance of the three University Departments of General Practice in Trent and the equivalent academic nursing departments at Leicester (De Montfort University), Nottingham and Sheffield. The overall aims of the Trent Focus are to promote a research culture in primary care and to increase the involvement of primary care professionals in the research process. The ultimate aim is to strengthen the research capacity of primary care in the Trent Region.

A region-wide survey of primary health care professionals indicated that substantial numbers wished to become more involved in research but that many lacked appropriate research training. Accordingly, the main priority of the Focus has been to provide an increased availability of research training and support through the creation of a directory of appropriate courses, the creation of a network of expert advisers and the provision of limited financial support to enable health professionals to avail themselves of these opportunities. Restricted career opportunities for research and organisational barriers to active participation in research have also been identified and efforts made to overcome them.

In the next three years, these activities will continue and be expanded. In addition, a network of 60 collaborating research practices throughout Trent will be built up and three designated research practices, capable of innovative research activity will also be identified

and supported.

£ 236,507 NHS Executive  
Tren1.1.97 - 31.3.2000

## GENETICS

**Prof Sir A J Jeffreys**

**Dr J M Ketley**

**Prof W J Brammar**

**Prof G C K Roberts/**

**Prof D R Critchley**

## Equipment for a central protein and nucleic acid sequencing facility

£ 137,772 Wellcome Trust

## GENETICS (MEDICAL)

**Dr R C Trembath**

## The molecular pathology of Pendred Syndrome

£ 70,372 Action Research

**Dr R C Trembath**

## A gene causing primary pulmonary hypertension: A refinement of genetic localisation and physical mapping of the disease gene

£ 143,639 British Heart Foundation

## GEOLOGY

**Dr A Collins**

## Extensional collapse and metallogeny in Madagascar - Fermor Fellowship

Rather than standing sentinel from the time of their formation, passively waiting for erosion to wear them down, evidence from many modern mountain ranges highlights a more self-destructive tendency. Work over the last decade (much of it undertaken at Leicester University) has unearthed the importance of large-scale extensional deformation within a mountain range tending to decrease the overall elevation of the range (i.e. tectonic erosion).

Most work on this phenomena has concentrated on geologically recent mountain ranges, these ranges have the drawback that only rocks from the upper levels of the Earth's crust are exposed at the surface. In Madagascar a wonderful section through an ancient mountain range (~700 million years old) exposes rocks from all levels of the crust. Recently identified extensional faults in this section are spatially related to large deposits of ore minerals and gemstones. This project aims to examine the structural relationship between this mineralisation (vital for Madagascar's economy) and the evolution of this old mountain range.

£ 46,944 Geological Society of London

## MATHEMATICS & COMPUTER SCIENCE

**Dr J Levesley**

## Approximation on Spheres - Visiting Fellowship (Prof A K Kushpel)

£ 8,000 EPSRC

**Dr R M Thomas/Prof I A Stewart**

## The complexity of problems in infinite groups

£ 116,247 EPSRC

## MEDICINE & THERAPEUTICS

**Prof C M Castleden**

## District Stroke Services Co-ordinator

Since 1991, The Stroke Association has appointed co-ordinators in a number of health districts including Bristol, Canterbury, Edinburgh, Leeds, Salford, North Tyneside, North Staffordshire and now Leicester. Dr Thompson Robinson has been appointed as the District Stroke Service Co-ordinator for Leicestershire. He is based as the Consultant Stroke Physician at the Leicester General Hospital and has been involved in establishing a new combined acute and rehabilitation stroke unit there. The district role, funded by The Stroke Association, aims to promote good practice in stroke treatment and ensure co-ordinated care for stroke patients with a goal of a seamless service into which acute rehabilitation and community care will be integrated.

£ 150,000 Stroke Association

**Dr C J Garratt**

## Grant-in-Aid of Research

£ 5,660 Medtronic Bakken Research Centre

**Prof R J Playford**

## Research Posts Funding

£ 16,955 (supp) Leicester General Hospital NHS Trust

**Dr N J Samani**

## Genetics of coronary artery disease

£ 15,000 Royal Hallamshire Hospital

**Dr N J Samani**

## UK collaborating study to identify the major genes responsible for essential human hypertension

£ 240,729 MRC via University of Glasgow

**Dr I B Squire**

## Cardiovascular medicine research support - Grant in Aid

£ 18,000 Servier Laboratories Ltd

**Dr A Wardlaw**

## Airway inflammation and eicosanoid concentration in induced sputum in normal and asthmatic subjects

£ 7,311 Glenfield Hospital NHS Trust

**Dr A Wardlaw**

## Leucocyte adhesion in allergic inflammation

£ 96,550 (supp) National Asthma Campaign

## MICROBIOLOGY & IMMUNOLOGY

**Dr M J Browning**

## T Lymphocyte telomere length and telomerase activity in HIV infection

and the effects on them of 1592U89

£ 59,174 GlaxoWellcome

**Prof W D Grant**

## Extremophiles as cell factories

£ 84,559 CEC via TNHH Tech GMBH

## PATHOLOGY (CHEMICAL)

**Dr H R Griffiths**

**Dr R J Bevan**

**Prof J Lunec**

## Development and validation in vivo biomarkers of oxidative damage to proteins (AN0435)

Free radicals are generated in normal healthy individuals during metabolism, and we may also be exposed to free radical sources arising from cigarette smoke or ultraviolet light from the environment. These free radicals are normally limited by (1) scavenging enzymes and (2) antioxidants i.e. vitamins C, E, and the carotenes. However, if there is an imbalance between radical production and scavenging, then deleterious changes to biological molecules such as lipids, proteins and DNA can occur. Free radical induced modifications in proteins are implicated in the pathogenesis of chronic diseases such as atherosclerosis and autoimmune diseases such as rheumatoid arthritis. The purpose of this work is to identify novel markers of free radical damage to proteins. These may provide useful indices of free radical stress in healthy individuals. In addition, the protective effect of antioxidant vitamins on protein damage induced by free radicals will be investigated. This work may allow the definition of antioxidant vitamin intake for a healthy lifestyle.

£ 230,519 MAFF

**Prof I Lauder**

## Lymphoma Group

£ 6,457 (supp) Leicestershire Health

## PHYSICS & ASTRONOMY

**Dr C Binns**

## Embedded assemblies of magnetic mesoscopic particles

£ 656 CLRC

**Dr G W Fraser**

## Advanced photocathode technology for imaging microchannel plate (MCP) detectors

£ 44,182 PPARC

**Dr G W Fraser**

## Development of the high resolution camera for the AXAF-1 observatory, support

£ 65,200 (supp) PPARC

**Prof C Norris**

## The atomic structure of the InSb(001) surface

Indium antimonide is a narrow band semiconductor which is attracting

increasing attention in consequence of its potential use in high speed opto-electronics. The electronic characteristics and reliability of devices depend ultimately on the atomic arrangements of the semiconducting material at the interface with the metallic contacts formed on the surface. A research programme has been set up with DRA Malvern to determine the structure of the indium antimonide surface and to understand the process of metallisation. Using the technique of X-ray diffraction and synchrotron radiation from the 2 GeV source at Daresbury Laboratory, we have succeeded in determining the atomic structure of the clean surface. Further beamtime has been offered to us to extend this study to investigate the microscopic changes that occur during the preparation of surfaces before device production.

£ 1,848 CLRC

**Dr T Robinson**

**Connect A - A new exploration technique for oil & gas employing artificially stimulated electromagnetic waves from the ionosphere**

Magneto-telluric techniques which employ low frequency electromagnetic waves of natural origin (e.g. lightning and the magnetospheric pulsations) are becoming increasingly important tools for geological exploration, particularly in marine environments. Low frequency electromagnetic waves can penetrate the sea and submarine crust and reflect from geological strata. This allows important regions such as oil and gas bearing layers to be located and

mapped. These methods are currently limited by the uncertainties associated with the natural sources of the electromagnetic waves involved. This new NERC grant will provide funds to investigate a novel approach to magneto-tellurics, which utilises high power radio waves transmitted from the ground. These excite low frequency waves in the natural electric currents which flow in the upper atmosphere. These low frequency waves then illuminate the ground and can be used for magneto-telluric prospecting. Unlike naturally occurring low frequency noise, these man-made waves can be tuned precisely to optimum frequencies required for particular environments. In addition, modern signal encoding techniques will make this method much more sensitive than can be achieved with random natural wave sources. The aim of this initial study is to assess the feasibility of this novel method with particular reference to oil and gas exploration.

£ 4,831 NERC

**Mr A Wells**

**JET-X telescope for spectrum-X**

£ 50,954 (supp) PPARC

**Mr A Wells**

**GERB Project phase B-2**

£ 16,880 (supp) CLRC

**POLITICS (SCSPO)**

**Dr M L Gill**

**Personal safety in education: A study of violence in schools**

£ 4,203 (supp) Suzy Lamplugh Trust via Department for Education & Employment

**Dr M L Gill**

**Retail Crime**

This project follows on from a previous evaluation of retail theft and security hardware by examining issues of data integrity within the same retail group. It aims to quantify the level of losses that can be attributed to theft (customer theft) and those that can be considered due to data corruption. Data corruption not only affects estimates of the crime level but also affects sales, particularly on flow replenished stock lines. Data corruption can therefore have great impact on the profitability of the company. The project will run for six months and will quantify errors and produce recommendations to increase data integrity within the company. A second six month research period is proposed to implement and evaluate the recommended changes, with the overall aim of producing 95% data accuracy.

£ 12,858 Bankrupt Clothing

**PSYCHOLOGY (CLINICAL)**

**Dr C McCrea**

**Evaluation of the impact of nursing lecturer - practitioner posts on the interface between service and education in the Trent Region**

£ 20,000 (supp) NHS Executive Trent

**PSYCHIATRY**

**Prof J Lindesay**

**Psychiatry for the elderly - Research Funding**

£ 32,892 (supp) Leicestershire Mental Health Service

**Prof M Reveley**

**Equipment grant for magnetic image resonance**

£ 16,374 Leicestershire Mental Health Service

**SOCIAL WORK**

**Prof P J Aldgate**

**Report on research findings on work with children and families where adult mental health, alcoholism and substance abuse and domestic violence are issues**

£ 22,944 Department of Health

**SOCIOLOGY**

**Mr J Williams**

**Carling Premiership Supporters**

£ 62,799 (supp) FA Premier League

**SURGERY**

**Dr M Galinanes**

**Oxidant stress during myocardial ischaemia & reperfusion**

£ 118,409 Glenfield Hospital NHS Trust

**SURGERY/PATHOLOGY**

**Mr M Nicholson/Dr P Furness**

**Effects of fk506 and cyclosporin on renal transplant fibrons**

£ 20,197 Leicester General Hospital

**SURGERY/MEDICAL PHYSICS/SURGERY**

**Mr A R Naylor/Prof D H Evans/Prof P R F Bell**

**Development of an automated cerebral embolus detection system**

£ 38,179 Stroke Association

**ZOOLOGY**

**Dr D M Harper**

**Kenyas Wild Heritage**

£ 37,790 (supp) Earthwatch

**Dr D M Harper**

**The ecology and management of Lake Naivasha - Equipment Support**

Limnological research at Lake Naivasha was initiated by Dr Harper in 1982 and has been supported annually since then by Earthwatch. A purpose built laboratory was provided by the Elsa Conservation Trust in 1989 and equipped with surplus items from the School of Biological Sciences as they were replaced here.

This grant is to provide important capital equipment items. An automatic weather station will when operating, provide the only information of its kind in the central Rift Valley. A gas and compressed air supply will enable more sophisticated chemical analyses to be undertaken than hitherto. A furnace will enable combustion of sediment samples for eventual analysis of their important chemical constituents.

£ 6,541 Elsa Conservation Trust

**Dr D M Harper**

**Llys Y Fran Reservoir - Nutrient budget**

Llys-y-Fran reservoir in Pembrokeshire was constructed in the 1960s as a river regulating reservoir for the industrial development of Milford Haven.

Managed as a recreational resource and trout fishery, in recent years the reservoir has shown signs of eutrophication.

This small contract is to produce an estimated nutrient budget (nitrogen and phosphorous) from the current land use of the catchment and activities on the reservoir. The output will be a recommendation for management to reduce further nutrient enrichment and suggestions for further research and monitoring to understand the problem more clearly.

£ 3,965 Environment Agency

## KPMG TAX AND PERSONAL FINANCIAL ADVISORY SESSIONS

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# NOTICES

## THE FRANK MAY PRIZE LECTURE

### LIKE FATHER LIKE SON: THE ERA OF MOLECULAR CARDIOLOGY

DR N J SAMANI

Senior Lecturer in Cardiology and Honorary Consultant Cardiologist

Thursday 19 June 1997 at 5.00 pm

Lecture Theatre 1, Maurice Shock Medical Sciences Building

(Reception in the Foyer after the Lecture)

Open to the public and free

## CONVOCATION JUBILEE FUND 1997

Applications are invited for grants from the Convocation Jubilee Fund. Each year a modest amount of money is made available for projects around the campus and the Standing Committee of Convocation decides which ones are to benefit. Last year's successful projects included an induction loop in the new building, equipment for the creche at Goscote House and the Mature Students hardship fund. The Committee are keen to stress that proposals do not have to have a welfare element to qualify. Proposals should be submitted to the Committee via Peter Allen, Press and Alumni Relations, by 5.00pm on Tuesday, 3 June. The Committee will meet on 11 June and the decision will be publicised in July's Bulletin. If you would like to discuss the Jubilee Fund informally with Peter, please contact him on 2195 or e-mail him at pa1m.

Charlotte Timson in the Admissions Office on 5281 for copies of this latest edition.

## ROYAL SOCIETY

Wednesday 21 May and Thursday 22 May 1997

Vegetation-Climate-Atmosphere Interactions: Past, Present and Future

Discussion Meeting at The Royal Society, 6 Carlton Terrace, London SW1

Telephone enquiries to 0171 839 5561, ext 2574.

## UNIVERSITY ESTATES & BUILDINGS OFFICE

A planning application for main site signs has been submitted to Leicester City Council by the Head of Client Services and the University Surveyor.

## DEPARTMENT OF HISTORY JUBILEE PUBLIC LECTURE: INAUGURAL LECTURE OF THE CENTRE FOR THE HISTORY OF RELIGIONS, INTER-FAITH DIALOGUE AND PLURALISM INAUGURATION OF THE GEZA VERMES LECTURES IN THE HISTORY OF RELIGIONS

Wednesday 28 May, Rattray Lecture Theatre, 5.15 p.m.

### The Discovery of the Dead Sea Scrolls: 50 Years On

Professor Geza Vermes FBA (Professor Emeritus of Jewish Studies, University of Oxford)

This lecture will assess the impact of the discoveries and fifty years of research on the Dead Sea Scrolls; provide an up-to-date verdict on the Scrolls for a study of the Hebrew Bible; discuss other contemporaneous Jewish religious literature; identify and characterize the Qumran community; and consider the relevance of the Scrolls for a better understanding of early Christianity.

Open to the public and free.

## DEPARTMENTAL STAFF COMMON ROOM ASSOCIATION

### WINE ON THE ROCKS?

A fascinating outing has been planned for Saturday 17 May, when a coach will take members and guests to Kinver in Staffordshire for a visit to the cave dwellings on Kinver Edge, followed by a guided tour of Kinver church and a short walk in the village. Alternatively, visitors may choose to spend time walking the Edge. After lunch in Kinver, The Halfpenny Green Vineyards and Winery is a short drive away, plus wine tasting, slide show and talk, followed by tea. To book, contact John Ashworth (Psychology) on 2180/2188 by 10 May.

### OUTINGS TO ANTICIPATE

A "Do what you will" day trip to London has been arranged for Saturday 28 June, and bookings are already being taken for weekend visits to Bruges and Paris in the summer. Book early with Chris Day (Engineering) on 2565 if you want to be sure of a place. Full details of these trips appear on the leaflet circulated to members. **To celebrate the 40th Jubilee of the DSCR this year, this trip is subsidised for members from the Association's funds.**

Members should note that from the beginning of May the Common Room is closed for examinations until 10 June.

## SMALL ADS

### VIENNA CITY HOLIDAY

Spacious fin de siècle luxury flat for two, possibly three,

£220 per week for two.

Call 0116 230 3099

(evenings)

### DORDOGNE

Spacious and secluded old limestone farmhouse in the beautiful Dronne valley.

Terrace with fine view; comfortable beds; open fire; well equipped; sleeps 5; from £185 p.w.

Tel: 0116 270 1787.

## DATES FOR YOUR DIARY

### EVENTS ARE ALSO LISTED ON CWIS

#### MAY

##### Thursday May 8

Celebrity Lecture: Exploring the Planets. Dr Patrick Moore. 7.30 pm. Rattray Lecture Theatre.

##### Friday May 9

Centre for Urban History Lunchtime Seminar: Neighbourhood ... Religion ... Community: Religious Institutions and the creation of community in the Belgrave area of Leicester, 1965-1995. Joe Seliga (Oxford). 12.45 - 2.00 pm. Seminar Room., 108 Regent Road.

##### Tuesday May 13

Inaugural Lecture: Modern Medicine - The Appliance of Science. Professor B Williams, Medicine and Therapeutics. 5.15 pm. Lecture Theatre 1, The New Building.

##### Friday May 16

Celebrity Lecture: Thirty Years of International Reporting. Michael Nicholson, ITN Senior Foreign Correspondent. 5.30 pm. Lecture Theatre 1, The New Building.

##### Tuesday May 20

Leicester Early Modern Seminar: Gendered space in early modern London. Laura Gowing, University of Hertfordshire. 4.30 pm in the Gatehouse.

##### Tuesday May 20

Inaugural Lecture: Getting to the Heart of Galaxies: A Multi-wavelength Approach. Professor M Ward, Physics and Astronomy. 5.15 pm. Lecture Theatre 1, The New Building.

##### Thursday May 29

Celebrity Lecture: From Antarctica to Chernobyl: the story of genetic fingerprinting. Professor Sir Alec Jeffreys. 5.30 pm. Lecture Theatre 1, The New Building.

#### JUNE

##### Tuesday June 3

Inaugural Lecture: Tales from the Crypt: Gastroenterology, Past, Present and Future. Professor R Playford, Medicine and Therapeutics. 5.15 pm. Lecture Theatre 1, The New Building.

##### Wednesday June 4

Celebrity Lecture: A Year of Adventure: The Geographical South Pole Solo, the South Magnetic Pole and the North Magnetic Pole. David Hempleman-Adams. 5.30 pm. Lecture Theatre 1, The New Building.

##### Sunday June 8

Jubilee Bike Ride. Further details from Manor Road Sports Hall - Telephone 0116 271 9144.

##### Tuesday June 10

Inaugural Lecture: Title: To be advised. Professor J Draper, Botany. 5.15 pm. Lecture Theatre 1, The New Building.

## THE LIBRARY

### NEW CD-ROM

The Library now has access to virtually the whole of ancient Greek literature in electronic form. A CD-ROM entitled *Thesaurus Linguae Graecae* (TLG) is available on the stand-alone CD-ROM machine. The TLG is an electronic databank of ancient Greek literature from Homer (eighth-century BC) to AD 600, with historiographical, lexicographical and scholastic texts from the period between AD 600 to 1453.

### ELLESMERE CHAUCER FACSIMILE

The Library has recently acquired an important new facsimile manuscript to add to its growing Special Collections of rare books and manuscripts. This is a copy of the Ellesmere Chaucer facsimile, published by Huntington Library Press. This magnificent manuscript of Chaucer's *Canterbury Tales* contains 23 portraits of the storytellers, including one of Chaucer himself. The original is the most famous of the literary manuscripts which are held at the Huntington Library in California. There are 71 beautifully-decorated pages with both gold and luminously-coloured borders. The full-colour reproduction uses the most modern techniques to ensure faithfulness to the original.

The facsimile (number 214 of a limited edition of 250 copies) is presented as 31 unsewn gatherings in a blue linen-covered box, and was acquired by the Library with financial assistance from the Faculty of Arts.

### LECTURE

The Work of the Library and Information Commission, its Vision Statement, National Research Strategy and National Information Policy Projects Maggie Haines (Principal Advisor, Library and Information Commission)

Thursday 12 June, 5.30 p.m., New Building

Further details from the University Library (2031).

## A.O.B.

## TEE TIME

There is a time and a place for everything; for golf, the time is now and the place is right here. Well, Oadby to be more exact, at Glen Gorse Golf Club. Your humble correspondent is learning to play golf and what a time I have chosen. No sooner do I pick up sticks than the game erupts into a new and vibrant phase of its life. Sponsorship deals for £25m are no longer merely a dream, young people discard their gameboys, aerosols and recreational drugs to stride purposefully onto the greens and fairways of our nation's golf courses. And one name is on their lips. That name is sadly not mine but Tiger Woods - say it loud and there's music playing, say it soft and it's almost like praying.

Golf is no longer an old man's sport, you don't have to be a fashion casualty or President of a superpower to play it, you can be young, you can be cool because golf is young and golf is cool again. I have travelled down the road to Damascus and I have a vision - it is a 5 iron in every hand, armadas of yellow pendants gently fluttering in the summer evening breeze, the twitter of blackbirds mingling with the effortless thwack of a million swingers driving off - to oblivion or to fame and an addiction beyond anything they have previously known.

I am the apostle of golf - learn it, play it, dig it! Seriously, I am the least sporty person I know and I can do it. It is such a thrill to get it right, to be in the open air, not forcing it just swinging effortlessly through a swoop and a whoosh as you send your dreams skyward. By the time you read this I will have covered my basics - the modest among you will be glad to know - irons, woods, driving, chipping, putting, bunkers - all in just seven lessons. I am hooked. Or should that be sliced? No, not for me - I go in search of the perfect 365 yard drive. Ahead of me an intoxicating cocktail of pleasure and pain, a selection of golfing nicknacks every Christmas and a wardrobe full of fashion slacks. Tee up, the future is only a swing away.

Peter Allen

APRIL ushers in the beginning of the new cricket season but, increasingly this most English of English games is becoming connected with the issue of racism. During August of last year we saw race-based crowd trouble at the Headingley Test Match against Pakistan and a court case in which Ian Botham and Allan Lamb attempted to sue Imran Khan for slandering them as racists. During the previous winter, Devon Malcolm had claimed that his treatment by the English Chairman of Selectors, Ray Illingworth, had been racist, and the previous year a debate had raged over an article published in *Wisden Cricket Monthly* which questioned the "commitment" of England cricketers who had been born or brought up abroad. Surely the next racism issue for cricket cannot be far away.

Whilst issues of race surface in many sports - witness the recent Peter Schmeichel/Ian Wright feud in football - English cricket is perhaps especially prone to such debates. This is probably due to two reasons. Firstly, international cricket matches are the only sports events at which ethnic minority spectators are present in any great number. Secondly, cricket is also the only sport in which large numbers of both British blacks and British South Asians compete at the highest level.

At first sight, we might see this representation of ethnic minority members as a cause for celebration. My research found that, in 1995, and compared to the population as a whole, British South Asians were slightly over-represented as a group, and British Afro-Caribbeans were significantly over-represented as a group.

But when we investigate further we see a trend that is perhaps more alarming, for this research found that a high number of British Afro-Caribbean cricketers were medium-pace or fast bowlers and a high number of British South Asian cricketers were batsmen.

Well, many of you might ask, so what? Presuming that there are

no biological differences between these groups that make them especially suited to the physical demands of each playing role - and I would strongly argue that there aren't - how can we explain these findings?

There are two possible answers. Firstly, either players themselves may choose to play in particular positions. This may be due to role models with whom they identify (for instance the West Indian cricket team has been well known in recent decades for its reliance on fast bowling). Alternatively, County coaches and scouts, influenced by certain "racial" stereotypes, may be more inclined to pick members of ethnic minorities who play in certain cricketing roles.

These two answers are not, of course mutually exclusive and a more definitive answer could only come about with more in-depth research. For the moment, however, I would suggest that it is the second of these processes which is more influential. Blatantly false "racial" stereotypes are prevalent in today's society and especially among the more conservative sections such as the cricket establishment. For instance, a few years ago a report in the *Independent on Sunday* argued that Pakistani bowlers were better at swinging the ball because they had different sweat to whites which allowed them to polish the ball better! Additionally, the continued inability of Yorkshire-born South Asians to represent the county still causes many eyebrows to be raised.

Some while ago on these pages Ivan Waddington raised the issue of the inequality in sport between men and women. Here I hope to have raised awareness of inequality in sport between different ethnic minority groups in Britain. The next cricketing row over racism should be welcomed as an important step to increasing awareness of this issue on a wider scale.

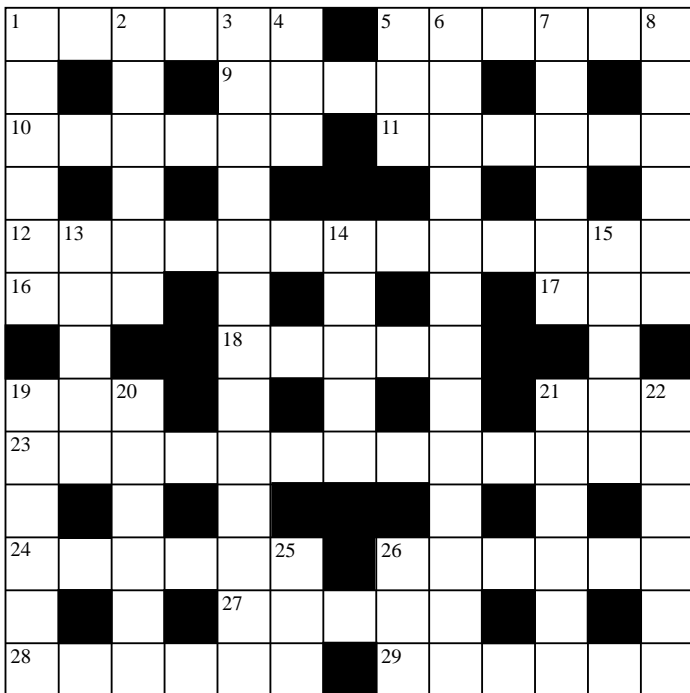
Dominic Malcolm, Centre for Research into Sport and Society

Bulletin competitions are open to all readers except those involved in its production. Entries on photocopied paper please. Only one entry per person.

# CROSSWORD

## PRIZE CROSSWORD 14 by Seivador

A THREE-COURSE LUNCH FOR TWO IN THE CARVERY WILL BE AWARDED TO THE SENDER OF THE FIRST CORRECT ENTRY PICKED IN THE DRAW.



### Clues Across

1. Rhyming play about macho hero (6)
5. An aide to what foreign tribesman? (6)
9. The cat to declare Ann's gone (5)
10. Paying official artists to rub back (6)
11. Anglicans could be involved with this moral study (6)
12. Who's to disseminate long canards? Me! (13)
16. Your old wealth - you're hiding it! (7)
17. Before, as in verse represented (3)
18. Beethoven's last not exactly thin! (5)
19. Following a diet, initially a craze (3)
21. When to expect a Greek character (3)
23. By-product of cask's withdrawal, and he has no men on (13)
24. A river softly takes us to a University setting (6)
26. Artlessly disrupted Christmas break (6)
27. Constant in the water colour (5)
28. Harmonious - led to cut in discordancy (6)
29. Tool for steady workers? (6)

### Clues Down

1. Painter favouring e.g. 27? (6)
2. Comet's passage perhaps conveys inspiration (6)
3. Embarking on gambling game for pension (13)
4. Time for chimes, say, making us possessive (3)
5. Expert won at cards, reportedly (3)
6. Industry converting her camp to oil, etc? (13)
7. It's to be uneasily cowering, emitting pained expression (6)
8. Guarantee not getting cold reproof (6)
13. Not dear little bird's chatter heard (5)
14. Clothing manufacturer of long river, to the North (5)
15. Age has to become poet's inspiration (5)
19. Traded hot stuff in an enclosure (6)
20. Mild, as version of dreariness (6)
21. Object I've put in the salad (6)
22. Hostility displayed by man I must replace (6)
25. Fixed, this square is triangular (3)
26. Tiny tot introduced to dissipation (3)

### WINNER OF PRIZE CROSSWORD NO. 13:

Dr Bob Borthwick, Politics Department.

### PRIZE GIVEN BY LEICESTER UNIVERSITY CATERING SERVICES

Entries in a sealed envelope - clearly marked  
PRIZE CROSSWORD COMPETITION, C/O LUSU RECEPTION, PERCY GEE  
BUILDING BY NO LATER THAN NOON ON TUESDAY 20 MAY.

NAME: \_\_\_\_\_

DEPT: \_\_\_\_\_

EXT. NO: \_\_\_\_\_

### PRIZE CROSSWORD 13 SOLUTION

**Across:** 1 Hope. 3 Headache. 9 Satchel. 11 Virus. 12 Elate. 14 Parsee. 16 Arson. 18 Invested. 20 Pact. 22 Neon. 23 Restless. 26 Radio. 27 Viewer. 30 Train. 32 Admit. 33 Unclean. 34 Obdurate. 35 Clue.  
**Down:** 1 Hosepipe. 2 Peter. 4 Ella. 5 Divert. 6 Corrode. 7 ENSA. 8 Sheen. 10 Elevator. 13 Tastevin. 15 Sited. 17 Sense. 19 Entrance. 21 Crammed. 24 Sitter. 25 Since. 28 Wheel. 29 Taco. 31 Aunt.

### EYE SPY COMPETITION

Focus on this view of the campus, taken by a photographer from the University's Central Photographic Unit, and try to identify its location.

Answers should be sent to Barbara Whiteman, Press & Alumni Relations, by Tuesday 20 May. A draw from correct entries determines the competition winner. Normal competition rules apply. The winner snaps up a £10 book token!

### WINNER OF LAST MONTH'S EYE SPY COMPETITION:

Stephen Rees, Estates & Buildings Office.

Last month's photo showed the crest above the door of the Astley Clarke building.