

## £132,000 FOR CANCER RESEARCH

Researchers at Sussex could be a step nearer to explaining how genetic changes cause cells to become cancerous. The work will be funded by a £132,000 grant from the Cancer Research Campaign.

Dr. Julian Burke, who heads a three-strong team, will use the grant to study how damage to a cell's genetic

information — its DNA — is recognised and repaired.

About 200 mutations occur every day in every cell in our bodies. More mutations arise in cells exposed to powerful cancer-causing agents, such as radiation and tobacco smoke. Unless this damage is repaired the chance that it will cause cells to become cancerous is greatly increased.

Dr. Burke will study the way cells

recognise and repair these mutations and why some damage remains undetected, resulting in cancer growth.

Dr. Burke said last week: 'Our team hopes to gain a better understanding of how these complex cellular systems normally work and why errors in the DNA can cause cancer.' He also hopes to identify more of the (environmental) factors involved in the development of cancer.

## A most unusual exhibition

The Victoria and Albert Museum is to stage a major — and unusual — exhibition organised by History of Art Lecturer Nigel Llewellyn. Called *The Art of Death*, it focuses on objects used in death rituals in England between 1500 and 1800.

Never before has there been an exhibition comparable to *The Art of Death*. It aims to demonstrate the extraordinary diversity of objects and images which have been produced in England in response to death — some bizarre, some beautiful, others humorous, and all moving.

Any misgivings we may have about this singular if not eccentric subject seem to be an aspect of our modern age, not a characteristic of our past history. 'Between the Reformation and the Industrial Revolution — the period with which the exhibition deals — the people of England met death face-to-face. Death was feared, but always confronted as an inevitable stage of life, an attitude which may once again become acceptable,' Dr. Llewellyn says.

The exhibition, which runs from 20 March to 16 June, is arranged thematically in a sequence which leads visitors through the ritual stages of death, bereavement and commemoration. It begins with prints and pictures which illustrate 'good' and 'bad' deaths, and the spiritual and legal preparation required of those about to die.

The most arresting section then follows, concentrating on the treatment given to the body of the dead. It traces largely defunct techniques and rituals concerned with the corpse itself. Visitors to the exhibition will be able to see the death mask of Oliver Cromwell, as well as a life-size cast of a dissected body and slightly less macabre items such as burial shrouds and parish coffins.

The exhibition then moves on to the funeral itself and to the customs and behaviour associated with bereavement.

Works by Inigo Jones and Hawksmoor will be on show in a section concerned with the production of commemorative objects. Monuments to the dead have provided a great source of inspiration to English poets, artists and moralists and the final section examines this contemplative tradition, concluding with the artists of the Romantic period.

As well as organising the exhibition, Nigel Llewellyn has also found time to write a 160-page, fully-



Lydia Dwight on her deathbed; made in Fulham c. 1674. Stoneware.

illustrated book to accompany the exhibition. *The Art of Death. Visual Culture in the English Death Ritual, c.1500-c.1800* will be published in March by Reaktion Books.



## Major enhancement of Ion Implantation facilities



The Ion Implantation facilities of the University have recently been greatly enhanced by the acquisition of a new high current Whickham implanter. Ion implantation operates by modifying surface properties as a result of firing high energy ion beams into a surface. Because the accelerators can produce beams of almost any element, and the depth of penetration is altered by the ion energy, the implants can be made with control of the changes in depth and concentration. An additional bonus is that there are none of the restrictions caused by chemical or high temperature diffusion factors.

The main difficulty for most University research groups is in finding the money to buy an accelerator which is sufficiently energetic, can produce a very wide range of ions, and deliver currents which are compatible with those needed for demonstration of production scale devices! The Whickham can do all these things and the package of accelerator, ion beam steerage and large area sample chamber is available to anyone with about £650,000.

For this particular machine (pictured above) a variety of funding sources were used. A substantial reduction in price was offered by Whickham as a result of Sussex improvements in the operating performance of this type of machine. The company are also enthusiastic about the possibility of using ion beams to alter the properties of glass and other insulating materials.

In performance terms it is a 200,000 volt machine delivering milliamps of beam. For doubly or triply charged ions there is sufficient current to operate with even higher ion energies up to 400 or 600 keV. It has been sited in the Physics accelerator building and complements the existing facilities of a 3 MeV Van der Graaf accelerator and a small 60 keV Danfysik ion implanter.

Ion beam implantation first gained commercial acceptance in the production of semiconductor devices and it is now an essential part of all chip production. Work with implantation in metals to improve hardness and corrosion resistance has also been gaining acceptance. Some of the earliest work for stainless steel razor blades was pioneered on an earlier Sussex machine, and now metal applications have increased steadily in both diversity and scale to include drills and taps, hip joints and items as large as car engine components.

The main aim of the present work at Sussex is to control properties of insulating materials for optical applications. In this area, Sussex is probably the leading research group in the world. Their present funding comes mainly from grants from the Science and Engineering Research Council, the Optoelectronic and Laser IRC and the Italian glass company, SIV.

In the last two years the group have produced some 30 papers and these describe successes which include the demonstration of three new types of ion implanted crystal lasers, the formation of optical waveguides in some 25 types of crystal, and patents for ion implanted lasers and automotive applications.

Peter Townsend

The University has a new logo, and a new letterhead design — the first elements in the introduction of a comprehensive house-style as part of a Marketing Plan.

The logo (illustrated opposite) combines the traditional, in the shape of the shield from the University Coat of Arms, with the typographical. The emphasis is on the name of the University and on its location at Brighton, in response to evidence that many people do not know where the University of Sussex is, and to research which shows that the inclusion of a town or city name in the title of an institution is a positive factor in student recognition and choice.

The new letterhead shown here will replace the many different designs currently in use by Units around the campus. The number had passed 50 at the last count and was still going up; and they differ so widely in design quality and style that one would be hard pressed to recognise that they all come from the same University — or even a University at all.

Such proliferation transmits confusing signals of a University possessing no clear idea of how it sees itself or how it wants to be seen by the outside world.

Adoption of a single letterhead design for the whole University is obligatory in order to convey the message of a unified institution in which the units work together with corporate purpose and identity.

The new letterhead can be used in a choice of one, two or three colours (red, blue and black). In the interests of economy, it will be introduced gradually as existing stocks of stationery run out and new supplies are ordered.

Work is now going ahead on the design of a full house-style, building on the logo and letterhead. The house-style will apply to all categories of University-published material (whether produced centrally or by individual Schools/Units), including stationery, internal newsletters, prospectuses and other external publications, and campus signs.

A house-style manual will be prepared, giving guidance on all aspects of typography and layout. In line with the recently adopted environmental policy, the use of recycled or other environmentally friendly paper will be an obligatory feature of the house-style.

The proven benefits of a common house-style include:

- the projection of a positive image of a University convinced about its



# New University logo

permanency and development. We all take pride in belonging to a high-quality institution with a fine record in teaching, scholarship and research: we need to reflect that pride in the style and format, as well as the content, of the materials we send to the outside world;

- the avoidance of the negative messages which a proliferation of designs and poor-quality or messy publications convey;
- the raising of our profile in the increasingly competitive environment in which universities are now operating;
- a substantial saving in design time and effort: a common style avoids the need to reinvent the wheel each time a new publication or document is produced.


To maximise these benefits, we shall aim at a house-style which is:

- distinctive, so that over time publications will be recognised by their style as emanating from the University of Sussex;
- built around an emphasis on the words 'University of Sussex', as in the logo;
- adaptable and flexible: it will be a general University framework within which individual Schools and Units can signal their own identity;
- capable of evolution, as graphical and typographical fashions change;
- relatively simple, so as to be easy and cheap to use;
- effective both in colour and in black and white.

More details of the house-style and the house-style manual will be published in *Bulletin* when design work has been completed. In the meantime, information and guidance on the use of the logo and the letterhead are available from the Printing Unit; from the Deputy Secretary, Geoff Ivey, in Sussex House; and from Katy Bignell in the Photographic and Design Unit in Arts C.

(The Bulletin will be launched in the new style as soon as the necessary type-faces have been installed in the desktop publishing system.)

# UNIVERSITY OF



*blue crowns*

*Red martlets*

*blue dolphin*


*Crest can be printed in black or Black blue & red in the combination shown.*

# SUSSEX

*Black*

# AT BRIGHTON

UNIVERSITY OF



SUSSEX  
AT BRIGHTON

**Astronomy Centre**

Physics and Astronomy Division  
University of Sussex  
Falmer, Brighton BN1 9QN

Telephone: (0273) 606755  
Direct Line: (0273) 678117  
Fax: (0273) 678097

*what the address looks like, set in Bembo bold and Roman.*

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*additional information positioned at the base of the page.*

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Humphrey Lyttelton and Helen Shapiro

## News from the Gardner Centre Valentine's at the Gardner

Valentine's night is party night at the Gardner Centre this year. In a very special jazz night the Gardner is playing host to Humphrey Lyttelton and his band and international singing star Helen Shapiro in a big new show *Humph 'n' Helen*. They will be singing and swinging some of their jazz favourites, hot and cool, new and nostalgic. And to keep you in the mood, the Gardner will be continuing the party spirit with a special dance and buffet in the main gallery straight after the concert.

Humphrey Lyttelton, one of the all-time bandleaders has been playing traditional jazz since the formation of his first band way back in 1948. With 150 recordings now under his belt and countless sell-out tours, Humphrey Lyttelton and the band have gone from strength to strength. In 1988, he celebrated 40 years as a bandleader and the seven piece band that he now leads, and is bringing to the Gardner, he regards as the best of his career.

He and the band are joined by '60s singing star Helen Shapiro whose hit records 'You don't know' and 'Walking back to happiness' shot her to stardom at the tender age of 14. Still singing and acting, Helen is now making it big in the jazz world, her 1984 album 'Straighten up and fly right' showed that her voice was perfect for big band jazz and led to the highly successful concert with Humphrey Lyttelton 'A Tribute to Duke Ellington' which began their partnership.

So make the Gardner Centre your date for 14 February and enjoy the big band sounds of *Humph 'n' Helen*. Tickets, available from the Box Office, are £7 for the concert; £12 for concert, after-show dance, buffet and late licence . . . . all this and romance too!

Anne Burrill

## Lunchtime music

### Meeting House Chapel

Tuesday, 29 January, 1.15 pm:

Susan Thompson and Gavin Ashenden  
— flute recital

Tuesday, 5 February, 1.15 pm:

Colin Haigh (organ)

Tuesday, 12 February, 1.15 pm:

John Birch (organ)

Tuesday, 19 February, 1.15 pm:

Christopher Stormont (organ)

### Gardner Centre

Thursday, 31 January, 1.00 pm:

Chilingirian String Quartet lecture/recital — Bartok Second String Quartet

### Recital Room, Room 120, Falmer House

Tuesday, 29 January, 1.15 pm:

Vox Antiqua plus Paul Hudson (baritone), Lesley Hudak (soprano), Rebecca Lloyd (soprano) — Mozart trios and duets

Tuesday, 5 February, 1.15 pm:

Sue McCreeth (mezzo-soprano) — Schumann Frauenliebe und Leben, Glen Beer-Pearce (piano) — Berg Piano Sonata

Tuesday, 12 February, 1.15 pm:

Clare Ward (oboe and cor anglais)

Tuesday, 19 February, 1.15 pm:

Helen Scott (violin) — pieces for piano, violin and voice

## Dr. Michael Penston

The death occurred from cancer at the age of 47 on 23 December 1990 of Michael Penston who had been associated with the Astronomy Centre for the past 25 years.

In 1965, when he took up employment at the Royal Greenwich Observatory, he became one of the first DPhil students in Astronomy and for most of the time after he graduated in 1969 he was a visiting faculty member, first a Lecturer and then a Reader, until the association lapsed last September following the move of the RGO to Cambridge.

Penston did outstanding research work in both theoretical and observational astronomy. Inside the University he frequently lectured and examined for the Astronomy MSc course and he successfully supervised six DPhil and seven MSc students. His wife Margaret also obtained an MSc and DPhil in Astronomy and we extend our sympathy to her and to their three sons.

R. J. Taylor

## Women's World Day of Prayer

### Services in Lewes

The service for this year's Women's World Day of Prayer on 1st March has been prepared by the women of Kenya. As Christian women all round the world meet together to share in the same form of service, we are asked especially to think of the people of Kenya and in other parts of Africa. There will be a morning service in Lewes at 10.45 am at St. John's sub Castro Church, followed by a ploughman's lunch, and an evening service at 7.30 pm in Westgate Chapel, followed by coffee. Men, women and children are all welcome!

## Small ads

A BULGARIAN male university student seeks full-board exchange for 4/6 weeks with English student, to stay with family to learn language and culture. In return, the English student can stay in Sofia or Moscow for 4/6 wks. on full-board. Please write to: Lydia Belinska, 1799 Sofia, KV Mladost BL.223 Ent. 10 App. 172, Bulgaria.

ACCOMMODATION: room to let in house just off Portland Road, Hove. No bills, use of bathroom and kitchen. £40 per week. Tel. ext. 3574 or 0273 430490 after 6.15 pm.

WANTED: to loan or buy, stocking (circular) knitting machine. Contact Doreen du Boulay, ext. 2031.



# Wired for Sound!

If you want to know anything at all about Cliff Richard's recording sessions, then go no further than the University Printing Unit and ask for typesetter Peter Lewry. Peter, who joined the University in 1988, is co-author of a new book which documents the full recording career of Cliff Richard.

Peter met co-author Nigel Goodall, a graphic designer with more than 300 album sleeves to his credit, 14 years' ago in the Elvis Presley Fan Club. Peter has a record collection of over 500 albums and CDs plus many singles and tapes, ranging from blues through country to rock and roll. His interest in recording sessions goes back to the mid 70s. Apart from Cliff Richard, he keeps details of Bob Dylan, The Beach Boys, Johnny Cash and Elvis Presley on file and constantly updates the information.

Why have they written the book? 'In recent years there have been books on The Beatles and The Rolling Stones and we both felt that there was a place on the bookshelves for a book of this type on Cliff Richard,' Peter explains.

*Cliff Richard — The Complete Recording Sessions 1958-1990*, is to be published by Blandford (an imprint of Cassell) next September. It is the definitive account of all Cliff's recording



Peter Lewry (left) with Cliff Richard and co-author Nigel Goodall. (Photo: Hanne Jordan)

sessions from his first in 1958 through to the 1990 'Saviour's Day' session. Every song is fully documented and the text is illustrated throughout with a rare collection of photographs, acetates, recording session sheets, studio tape boxes, labels and sleeves. The authors were given generous access to exten-

sive records and archives and the foreword is by Cliff himself.

Surprisingly Peter still has enough spare time for other interests: he and his wife Carole show their three dogs — two Bearded Collies and a Rough Collie and have high hopes that one of them will get to Crufts next year.

## To Chair at London

Dr. Jacqueline Rose, Reader in English, has been appointed to the Chair of English at Queen Mary and Westfield College, University of London, from January 1992.

## Knighthood

Congratulations to Sir Michael Thompson on his knighthood. He is a former Pro-Vice-Chancellor (and Acting Vice-Chancellor) and Professor of Experimental Physics at Sussex, and now Vice-Chancellor of Birmingham.

## Public Lectures

Keith Middlemas, Professor of Modern History, is to give a Professorial Lecture entitled *A Competitive Symposium: the State in Modern Britain*, on the evening of 19 February.

What the state is, who moves it, how it has operated in Britain are questions of great importance in a range of disciplines, to political scientists and economists, as well as to historians. Professor Middlemas' work in recent

years has concentrated on the interplay of individuals and institutions, inside and on the fringes of the state since 1900; notably *Politics in Industrial Society* (1979) and his trilogy *Power, Competition and the State* which bring his analysis up to the late 1980s.

In the Issues in Environmental Science Lecture Series, Dr. David Robinson, Senior Lecturer in Physical Geography, will speak on *Soil Erosion and Flooding on the Downs: the Environmental Failure of an Agricultural Success* on 5 February.

Looking further ahead, on 26 February, Stewart Boyle of Greenpeace will be speaking on *Global Warming — Threat or Opportunity?* in the Issues in Environmental Science Lecture Series.

Next term, Rupert Wilkinson, Professor of American Studies and History, will speak on *Inside-Outsiders and the Study of Americans* on 30 April. While on 20 June, Brian Roberts, Professor of Mechanical Engineering, will give a lecture entitled *Random Walks in the Dynamics Field*.

The lectures will be held in the Molecular Sciences Lecture Theatre, beginning at 6.30 pm. Admission is free; no tickets required.

## SERC Instant Studentship Scheme ended

The Instant Studentship Scheme, introduced by the Science and Engineering Research Council in 1965 to facilitate the return of able scientists and technologists in industry to higher education institutions for further training, has been terminated by the Council.

A review has shown that most such training can be accommodated within the SERC's normal schemes for post-graduate students. In the SERC's current financial position, the scheme is not a priority use of scarce resources. A saving of about £0.8 million in 1991-92 will result from ending the scheme.

## More than £840 raised

The 1990 Meeting House Christmas Appeal for Children in Romania has so far raised more than £840, with more money yet to come in. The money will be used to help the Tigre Mures Orphanage and the Brincovești Castle for mentally handicapped children. Many thanks from the organisers to all who contributed to raising this sum.



# Noticeboard

## Vacancies

The Personnel Office has issued the following summary of posts to be filled. Advertisements for these vacancies have been placed in local, and where appropriate, national papers, as well as being circulated to the relevant Section Heads and Union representatives for circulation to staff and noticeboards. Copies of these advertisements and further particulars, if available, as well as application forms, are available from the Personnel Office, Room 227, Sussex House. This list was compiled on 21 January and is subject to revision.

### Teaching Faculty

#### Chair in Media Studies

Senior Lecturer or Reader in Computer Science & Artificial Intelligence, COGS

Lectureships in Molecular Genetics, BIOLS

#### Other Faculty

Tutorial Fellow in Contemporary German

#### Secretarial, Clerical and Related

Assistant Services Engineer, full-time, grade 5/6

Information Officer, Careers Advisory Service, f/t, grade 5

Word Processing Support Asst. & Sect. Secretary, f/t, grade 4

Audit Asst., Finance Office, part-time, grade 3/4

Clerk Typists (2), Student Admin., p/t, grade 3

Clerk Typist, Admissions Office, p/t, grade 3

Office Asst., Bookshop, f/t, grade 1/2

#### Manual and Ancillary Staff

Grounds Person, Playing Fields Pavilion, f/t

Cleaner, Playing Fields Pavilion, p/t, grade 1

Cleaner, Library, p/t, grade 1

Cleaner, Residential Services, p/t, grade 1

Cleaner, EAPS, p/t, grade 1

#### Catering Services

Please apply to Philip Gassmann, Refectory, ext. 8221:

Trainee Chef, f/t

Kitchen Porter, f/t

## Robin Lee Poetry Prize Competition, 1991

Entries are invited for the Robin Lee Poetry Competition. It is open to all students and staff (not faculty) of the University. Candidates may submit up to four poems on any subject, totally not more than 100 lines overall. Entries should be submitted by **Wednesday, 13 March**, accompanied by an entry form available from Jan Grundy, Arts B245.

## Recent Books

Recent books by Sussex authors include:

*Technology Strategy and the Firm: management and public policy*, edited by Mark Dodgson. Longman. Paperback, £27.95.

*Questions of Quality: Primary Education and Development*, by Hugh Hawes and David Stephens. Longman. Paperback, £7.95.

*Class, Conflict and Protest in the English Countryside, 1700-1880*, edited by Mick Reed and Roger Wells. Frank Cass. £19.50.

*Socialist Economy: Theory and Practice* by Tom Bottomore. Harvester. Paperback, £9.95.

*Basic Statistical Computing*, 2nd edition, by D. Cooke, A.H. Craven and G.M. Clarke. Arnold-Hodder. Paperback, £12.95.

All books obtainable from Sussex University Bookshop

## News from the Library

Another of the Library's triennial reviews of journal subscriptions has begun, and all members of academic and research faculty should have received relevant papers. Previous reviews in the present series have led to the substitution of more useful titles for others of equal cash value, but less importance; the current review must in addition enable the Library to reduce its total outlay on journal subscriptions. (This reduction will be the first affecting subscriptions for a decade.) Anyone who has not received papers to which he or she may be entitled should contact Dheirdre Brown (ext. 3468).

Catering Services have announced an extension of hours and menu range for the snack bar in the Library basement. It will now be open from 9.30 am to 5.15 pm and will serve hot as well as cold food between 11.30 am and 2.30 pm.

## Scottish Education Department

### Postgraduate Studentships in Arts and Humanities Subjects

Sussex students who are ordinarily resident in Scotland and who intend to apply for Scottish Education Department Postgraduate Studentships tenable at Sussex or elsewhere in 1991-92 should obtain details and application forms now from the Admissions Office in Sussex House.

The SED will accept applications only up to 3 June 1991 and not thereafter, and Sussex students must submit them through the Sussex Admissions Office.

## British Academy Postgraduate Studentships in the Humanities 1991

Sussex students who intend to apply for British Academy Studentships tenable at Sussex or elsewhere in 1991 should obtain details and an application form now from the Admissions Office in Sussex House.

The British Academy will accept applications only from candidates who already hold an offer of admission to postgraduate studies. The closing date is 1 May 1991, and the procedures involved may take a considerable length of time to complete. Applications for admission should also, therefore, be submitted without delay, including those from current MA students who wish to proceed to research registration in 1991.

It should be noted that the British Academy will not accept, after 1 May, in any circumstances, applications which are not fully supported by all three parts of the form.

## Postgraduate Studentships

Members of the teaching faculty are reminded that the closing dates for the receipt by Research Councils and the British Academy of references in support of applications for Studentships are mandatory. The absence of references at the deadline will certainly result in applications not being considered.

Students are strongly advised to check that references have been despatched in good time.

## Bulletin

The Bulletin is published four times a term. The next issue will appear on Tuesday, 19 February. Copy for this issue must be received by Jenny Payne, Internal Communications Officer, Room 230, Sussex House, by no later than 4 pm on Monday, 11 February. If you have any news items or ideas for feature articles, she would be pleased to hear from you (ext. 8208).

The final Bulletin of term will appear on 12 March (copy date 4 March).

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